



Borton
Lawson

ENGINEERING
ARCHITECTURE

October 11, 2017

Mr. Gary Salijko
Project Coordinator
Apollo Group, Inc.
440 Pierce Street
Kingston, PA 18704

**RE: Phase II Environmental Site Assessment
Pagnotti Property
Maffett and South Main Streets
Plains Township, PA**

BL No.: 2017-3091-003

Dear Mr. Salijko:

Introduction

Borton-Lawson (BL) is submitting this letter as a report for the Phase II Investigation conducted at the Pagnotti Property (the subject site) located between Maffett and South Main Streets, Plains Township, Luzerne County, Pennsylvania (Figure 1 – Site Location Map). From August 21st through the 25th and August 28th and 29th, 2017, BL subcontracted with Geological and Environmental Associates (GEA) of Plymouth, Pennsylvania, to conduct a Phase II Environmental Site Assessment (ESA) at the Pagnotti Property. Note that any asterisks (***) were added to provide a more accurate summary after review of the representative ash sample provided by Northampton Generating Company, LP (Northampton).

Previous site investigation includes a Phase I ESA, conducted by BL in November 2014. The Phase I revealed one (1) Recognized Environmental Condition (REC) – a collapsed mine shaft located in the western corner of the subject property. Based on the information provided by the property owner, the subject site was used for deep mining until the 1950's. Since then, the property has been surface mined. Refuse bank removal and ash placement for reclamation occurred until approximately 2007.

Methodology

The subsurface investigation was to be completed through the utilization of Geoprobe® technology. A Geoprobe is a truck-mounted, hydraulically-powered, percussion/probing machine that has been specifically designed for use in the environmental industry. Geoprobe utilizes direct-push technology for subsurface probing. "Direct Push" techniques refer to tools and sensors that are "pushed" into the ground without the use of drilling to remove soil or to make a path for the tool.

A 2-inch diameter sampler was pushed vertically into the soil at four foot intervals. The recovered soil core was retained in a four-foot long, clear plastic liner that allowed the

Bethlehem
Pittsburgh
State College
Wilkes-Barre

WILKES-BARRE

613 Baltimore Drive
Suite 300
Wilkes-Barre, PA 18702

Voice: 570.821.1999
Fax: 570.821.1990

sample to be removed intact from the sampler. Successive 4-foot soil macro-cores provided continuous soil samples. Each of the soil borings was advanced until either refusal* or a depth of 24' below ground surface (bgs). Photographs of the Geoprobe operation can be found in Appendix A.

Prior to commencement of field work, BL conducted a PADEP file review to determine the extent of the ash placement and to verify PADEP's regulatory requirements concerning the ash located on site. Based on the July 2008 map (Figure 4) showing the extent of the area bonded for ash placement, 25 of the 40 borings were placed in that area. Field observations revealed no evidence of coal ash**. Photos showing material recovered can be found in Appendix A.

BL personnel performed field scanning of excavated soil materials for the presence of volatile organic compounds (VOC's) with a photoionization detector (PID) from each 4' soil core at each boring location. Upon recovery, the plastic liner was split to expose the sample. The soil descriptions were then logged by the Professional Geologist. Upon completion of the PID readings, soil samples were obtained from a selected soil core utilizing a dedicated Terra-Core™ sampler for each sample collected.

Each soil sample was assigned an independent sample number based upon the boring from which it was collected (i.e., SB-001, SB-002, etc.). Soil samples were transferred into appropriate sampling media, sealed, labeled, placed in a cooler filled with ice and delivered to an accredited laboratory for analysis under appropriate chain of custody documentation to insure compliance with QA/QC protocol.

Each soil sample, collected during the August 2017 sampling event, was analyzed for the presence of Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs) and RCRA Metals. A total of 47 soil samples were collected during the ESA. Analytical results were compiled and provided by Fairway Laboratories, Altoona, PA. Laboratory analytical data are summarized in Table 1, which can be found in Appendix A. Analytical results were compared to 25 PA Code Chapter 250, Administration of Land Recycling Program (Act 2), Medium Specific Concentrations, Table 3A-Organic Regulated Substances in Soil: Direct Contact Value and Table 4A-Inorganic Regulated Substances in Soil: Direct Contact Values.

Field Observations

- Only two borings, SB-011 and SB-020 were noted as containing "traditional" ash – however, this ash was not similar to the representative sample provided by Northampton Generating Company, LC. The representative sample was provided to Borton Lawson after the completion of the borings referred to herein. Northampton indicated that ash material similar to the representative sample was placed on the site from approximately 1999-2001 and 2005.

*Note that refusal can typically represent bedrock, boulders, buried debris, etc.

** Note that the traditional formation of ash was not found by BL, except in SB-011 and SB-020. Subsequent receipt and examination of representative coal ash from Northampton revealed a material that was encountered on site, described as brown silt and gravel mix, which had similar characteristics.

- Boring materials recovered were consistently observed to consist of coal fines and fragments throughout (Boring logs can be found in Appendix D). In areas where refusal was encountered, the recovery was consistently an orange/brown silt material.
- A sandstone outcrop was observed in the northeast corner of the subject property which had similar characteristics as the material encountered at refusal.
- PID readings from 0-24' bgs, or refusal, for all borings were 0.0 parts per million (ppm).
- There was no staining, discoloration, odor or any other evidence that would suggest the presence of contamination.
- Groundwater was not encountered on the subject property. There was no sheen or other evidence suggestive of contamination. Due to the consistency of the materials recovered, samples were collected at various depths throughout the subject property. In most cases, where changes in material were observed, samples were obtained from each.

Conclusions

Based on the laboratory analysis, the concentrations for VOCs, SVOCs and PCBs were below laboratory detection limits for each of the samples analyzed. RCRA metals were reported above laboratory detection limits throughout the subject property. Arsenic was reported above the residential statewide health standard (SHS) (12 mg/kg) in 31 of the 47 samples (66%) obtained. Out of those 31 samples, eight (8) (26%) were in exceedance of the non-residential SHS (61 mg/kg). The single highest reading recorded of 431 mg/kg, was from soil boring SB-024. That sample was collected at a depth of 19.0-19.5 feet bgs.

Cadmium was reported above the residential SHS (1.2 mg/kg) in seven (7) of the 47 samples obtained (15%), however, many of the laboratory detection limits were higher than 1.2 mg/kg SHS. Several results for Chromium were above the SHS for Chromium VI, however the level reported is for total Chromium. A summary table of the analytical results are provided in Appendix B. Also included in Appendix B are bar graphs to depict the overall depth at which samples were collected and depths at which Arsenic contamination was identified.

The concentrations of metals identified from the laboratory analysis are consistent with those that may be typically encountered in areas where historical mining operations have occurred throughout Northeastern Pennsylvania. Further coordination with PADEP is necessary to address proper remedial activities required as part of site redevelopment.

Recommendations

Based on discussions between BL and Mr. Tom Thompson, PADEP, the coal refuse present on the site would make it ineligible under Pennsylvania's Land Recycling Program (Voluntary Cleanup Program) (ACT 2). While the analytical results are being compared to the standards set forth by ACT 2, there would be no official liability relief under the ACT 2 program since the site is ineligible as stated above.

For the native material, located beneath the coal refuse, the ACT 2 standards would be applicable. However, removal of the coal ash would not appear to be a viable or preferred

option because of the amount of coal ash involved and the fact that higher levels of metals in the native material that was tested are present, above the SHS.

The best approach moving forward would be a best management practice in the form of the placement of an engineering control or cap. Across the subject site, the cap would be comprised of buildings, asphalt, concrete and topsoil and grass. Mr. Thompson stated that while no work plan is required to be submitted, PADEP would be willing to provide guidance on addressing the concerns at the subject site as part of the redevelopment process.

Attached you will find maps and photos documenting the work activities. Please see the list of attachments below. If you have any questions please feel free to contact me in our office at (570) 821-1994 x1293 or at dnealon@borton-lawson.com.

Sincerely,



Daniel A. Nealon
Environmental Scientist

DAN/dan

Attachments:

FIGURES

Figure 1: Site Location Map

Figure 2: Soils Map

Figure 3: Soil Boring Locations

Figure 4: Ash Placement map from July 2008 (done by Frederick C. Spott & Associates)

APPENDICES

Appendix A: Photo Log

Appendix B: Table 1. Summary of Soil Analytical and associated Charts

Appendix C: Laboratory Analytical Reports

Appendix D: Soil Boring Logs

FIGURES

FIGURE 1

Figure 1 – Site Location Map

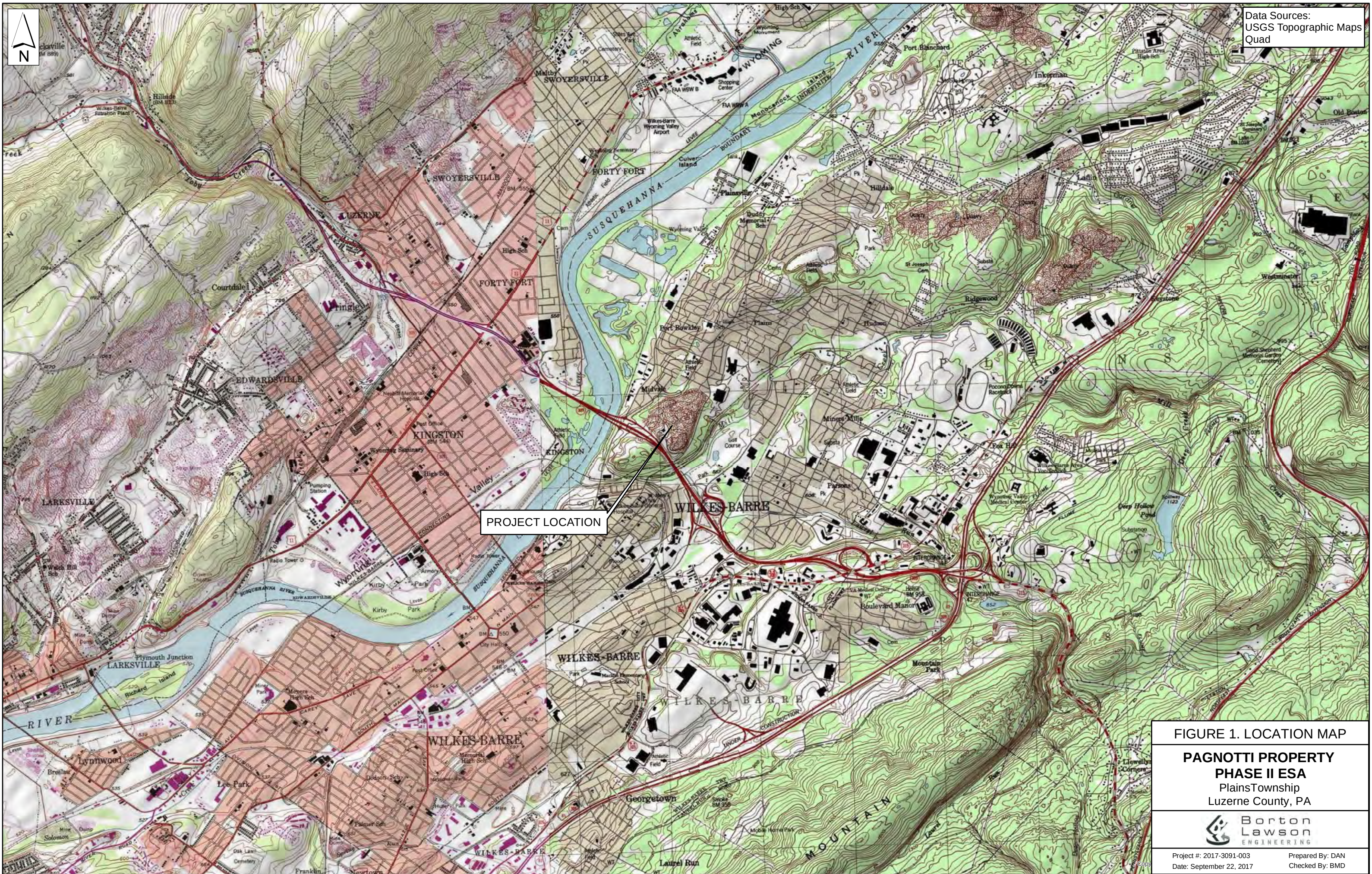


FIGURE 1. LOCATION MAP

**PAGNOTTI PROPERTY
PHASE II ESA**
Plains Township
Luzerne County, PA



Project #: 2017-3091-003
Date: September 22, 2017
Prepared By: DAN
Checked By: BMD

FIGURE 2
Figure 2 – Soils Map



FIGURE 2. SOILS MAP

**PAGNOTTI PROPERTY
PHASE II ESA**
PlainsTownship
Luzerne County, PA



Project #: 2017-3091-003	Prepared By: DAN
Date: September 22, 2017	Checked By: BMD

Soil Map—Luzerne County, Pennsylvania
(Pagnotti Property - Plains, PA)



Soil Map may not be valid at this scale.

Map Scale: 1:5,590 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/13/2017
Page 1 of 3

Soil Map—Luzerne County, Pennsylvania
(Pagnotti Property - Plains, PA)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 9, Sep 19, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 20, 2010—Jul 7, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Luzerne County, Pennsylvania (PA079)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Mg	Mine dump	44.5	66.2%
Sm	Strip mine	22.3	33.1%
WrB	Wurtsboro channery loam, 3 to 8 percent slopes	0.5	0.8%
Totals for Area of Interest		67.3	100.0%

FIGURE 3

Figure 3 – Soil Boring Locations



Sources: Aerial Imagery - ESRI

FIGURE 3. BORING LOCATION MAP

**PAGNOTTI PROPERTY
PHASE II ESA**
Plains Township
Luzerne County, PA



Project #: 2017-3091-003
Date: September 22, 2017

Prepared By: DAN
Checked By: BMD

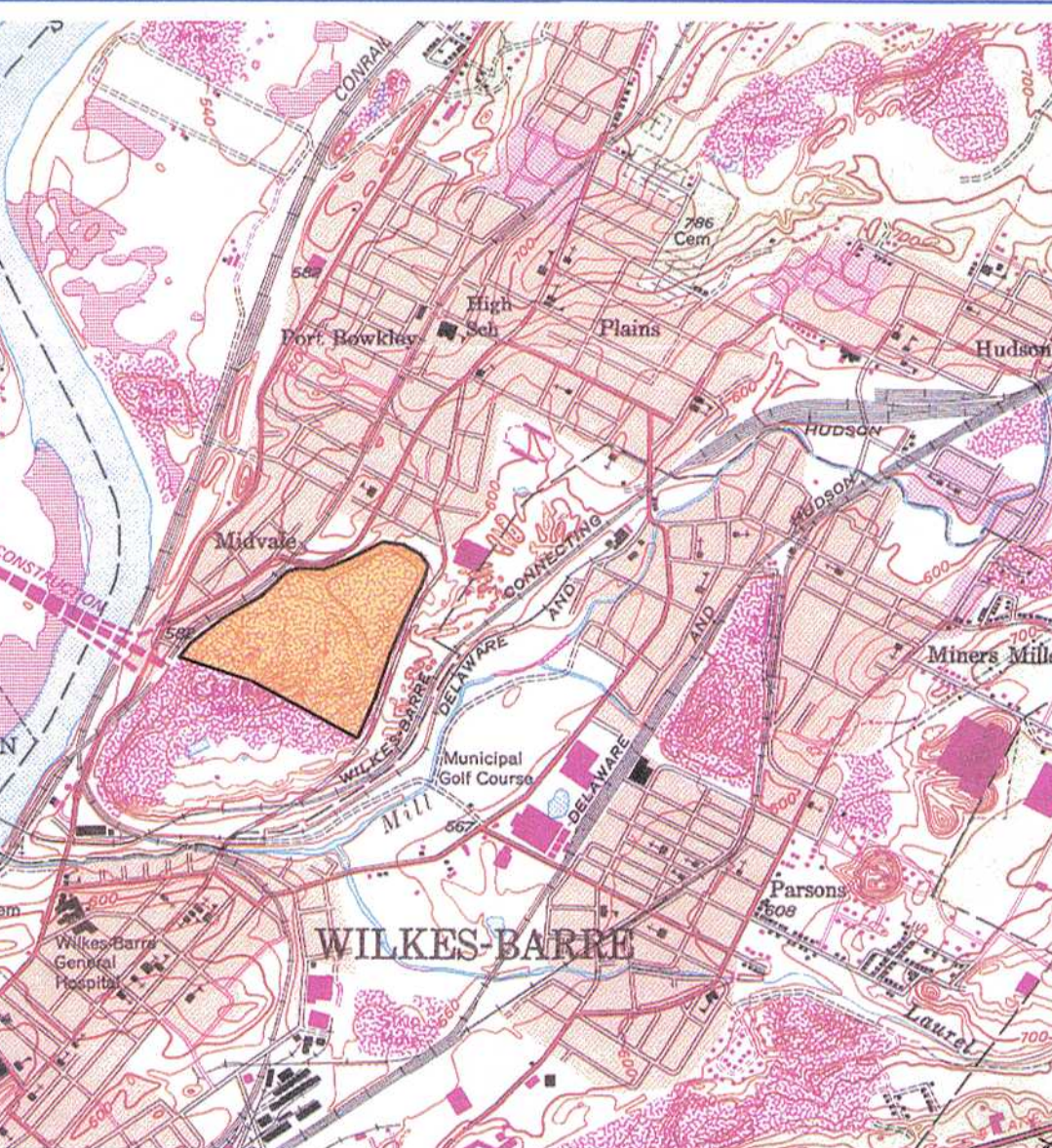
FIGURE 4

**Figure 4 – Ash Placement Map from July 2008
(done by Frederick C. Spott & Associates)**



- 500' PERIMETER BOUNDARY
100 YEAR FLOOD BOUNDARY
500 YEAR FLOOD BOUNDARY
EXTENT OF BANK MATERIAL
SLOPE @35° HORIZONTAL ~ 1.5h : 1v
ROCK CONSTRUCTION ENTRANCE

 RCE



LOCATION MAP
1"=2000'

ALL AREAS WHERE ASH HAS BEEN PLACED
(40.25 ACRES) HAS THE REQUIRED 3 FT.
OF COVER MATERIAL.

THE REQUIRED TOPSOIL (ONE FOOT THICK)
IS STILL NEEDED AND HAS NOT BEEN
PLACED AT THE SITE.



DATE 07/07/08

DRAWN BY

EJH
CHECKED BY

CHECKED BY
FCS

SCALE

$$1'' = 200'$$

REVISION	DATE

100

ASH PLACEMENT AREAS

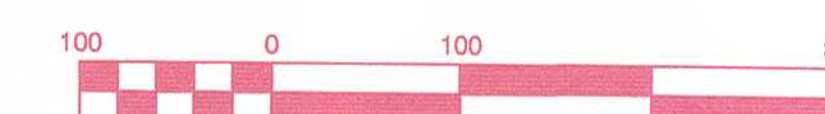
PROSPECT BANK OPERATION
NORTHAMPTON FUEL SUPPLY CO., INC.
PLAINS TOWNSHIP, LUZERNE COUNTY, PA

SHEET NO.

1

OF

1



Scale 1" = 200 ft

APPENDICES

APPENDIX A

Appendix A – Photo Log



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Lawson

ENGINEERING
ARCHITECTURE

Bethlehem
Pittsburgh
State College
Wilkes-Barre

WILKES-BARRE

613 Baltimore Drive
Suite 300
Wilkes-Barre, PA 18702

Voice: 570.821.1999

Fax: 570.821.1990

borton-lawson.com



Photo 1. Overall view of subject property looking southeast. Photo taken August 2017.



Photo 2. Overall view of subject property looking east. Photo taken August 2017.



Photo 3. View of Geoprobe installing a soil boring. Typical of all borings. Photo taken August 2017.



Photo 4. View of sample sleeves from SB-037. Majority of recovery was coal material which was typical of all borings.



Photo 5. View of orange/brown silt encountered just before refusal in SB-030. Although the depth and thickness varied, the material was consistent wherever refusal was encountered.
Photo taken August 2017.



Photo 6. View of orange/brown material in SB-031. Photo taken August 2017.



Photo 7. View of sandstone outcrop in the northeast corner of the subject property. Color consistent with that of material met at refusal throughout the site. Photo taken August 2017.



Photo 8. View of sandstone outcrop located in the northeast corner of the subject property. Photo taken August 2017.



Photo 9. View of SB-035 in progress. SB-034 and SB-035 were completed adjacent to the concrete slab.

APPENDIX B

Appendix B – Table 1: Summary of Soil Analytical and Associated Charts

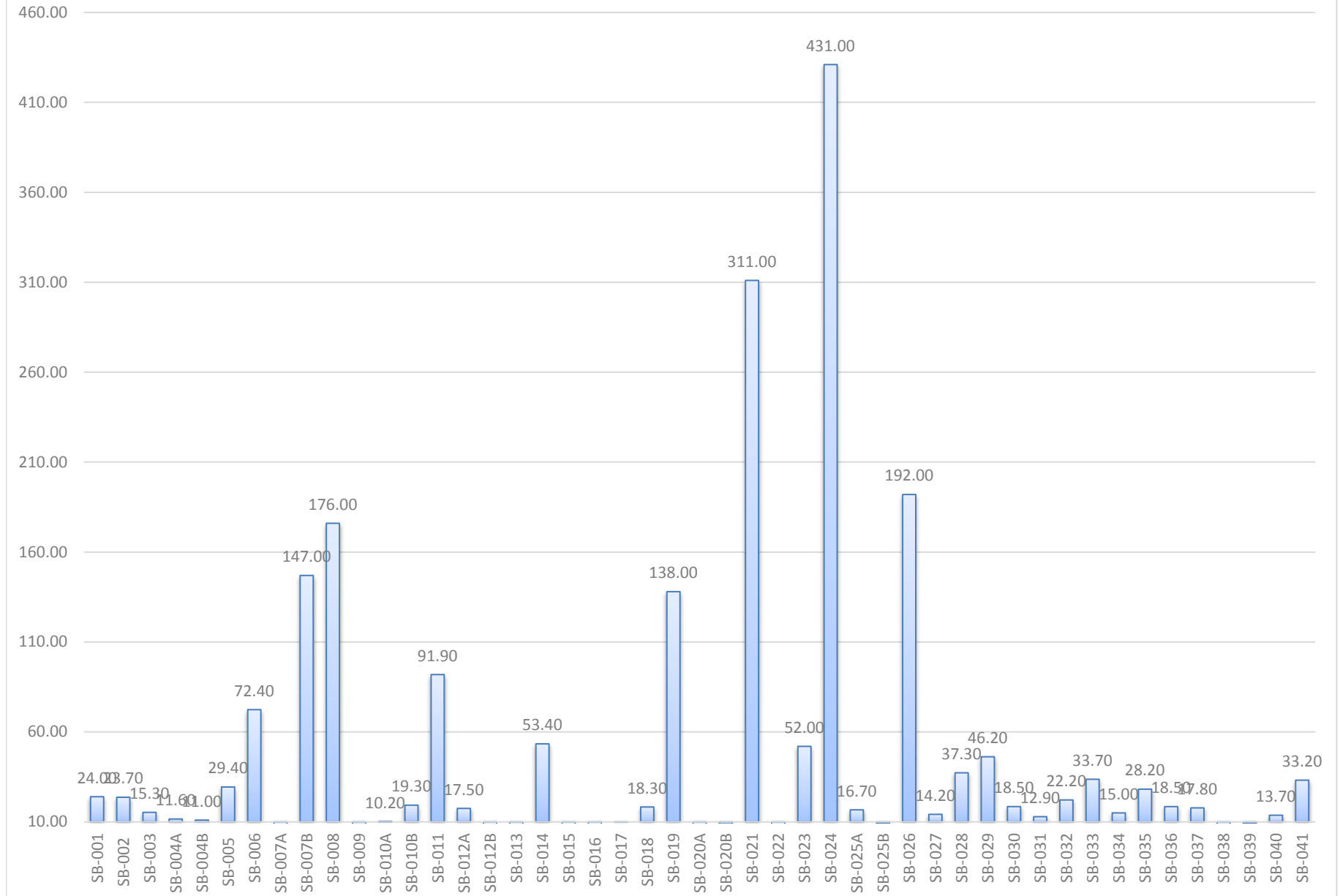
Pagnotti Property
Phase II ESA - August 2017
BL# 2017-3091-003

			Analyses (mg/kg)						
			Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Mercury
			EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 7471B
			12.0/61.0	44000/190000	1.2/6.0³	4.0/220.0²	500/1000	1100/16000	35/510
Sample Location	Sample Depth	Sample Type							
SB-001	6.5-7.0 ft	Soil	24.00	478.00	<2.97	41.00	23.70	23.20	0.934
SB-002	8.5-9.0 ft	Soil	23.70	482.00	<2.84	43.80	29.90	15.10	1.080
SB-003	11.5-12.0 ft	Soil	15.30	55.30	<2.23	5.59	33.40	<11.20	0.185
SB-004A	8.0-8.5 ft	Soil	11.60	79.30	<2.13	7.27	15.10	<10.70	0.048
SB-004B	17.0-17.5 ft	Soil	11.00	76.80	<2.08	6.27	17.70	<10.40	0.079
SB-005	18.0-18.5 ft	Soil	29.40	66.40	<2.11	4.82	35.60	10.80	0.299
SB-006	14.0-14.5 ft	Soil	72.40	98.40	2.12	4.75	62.10	18.40	0.483
SB-007A	10.0-10.5 ft	Soil	7.22	52.00	<2.06	5.43	14.20	<10.30	0.095
SB-007B	22.0-22.5 ft	Soil	147.00	186.00	4.40	8.04	127.00	33.70	2.270
SB-008	8.0-8.5 ft	Soil	176.00	167.00	5.37	5.57	123.00	32.10	1.140
SB-009	6.0-6.5 ft	Soil	8.33	86.00	<2.07	4.24	13.20	<10.40	0.066
SB-010A	7.5-8.0 ft	Soil	10.20	66.30	<1.99	<2.49	12.10	<9.95	0.107
SB-010B	22.5-23.0 ft	Soil	19.30	64.20	<2.35	7.59	24.60	<11.70	0.114
SB-011	18.5-19.0 ft	Soil	91.90	243.00	2.69	5.68	83.10	34.00	0.336
SB-012A	6.0-6.5 ft	Soil	17.50	51.30	<2.25	5.22	32.10	<11.30	0.139
SB-012B	22.5-23.0 ft	Soil	<4.06	61.90	<2.03	5.01	12.50	<10.20	<0.0285
SB-013	15.0-15.5 ft	Soil	7.08	37.80	<1.84	2.71	11.40	<9.22	0.084
SB-014	4.5-5.0 ft	Soil	53.40	534.00	<4.84	71.80	59.80	<24.20	1.18
SB-015	5.5-6.0 ft	Soil	<4.45	40.60	<2.23	7.56	12.70	<11.10	0.05
SB-016	23.5-24.0 ft	Soil	<5.71	203.00	<2.85	7.14	6.97	<14.30	<0.047
SB-017	10.0-10.5 ft	Soil	9.95	74.40	<1.99	6.16	44.40	<9.94	0.091
SB-018	21.5-22.0 ft	Soil	18.30	38.80	<2.16	3.30	71.50	23.60	0.162
SB-019	18.0-18.5 ft	Soil	138.00	175.00	5.23	9.12	106.00	21.70	0.901
SB-020A	14.0-14.5 ft	Soil	6.34	22.80	<2.15	5.24	<4.30	<10.7	<0.034
SB-020B	23.5-24.0 ft	Soil	8.91	60.10	<2.08	9.68	40.60	<10.40	0.101
SB-021	3.0-3.5 ft	Soil	311.00	190.00	11.00	9.01	165.00	33.50	1.570
SB-022	15.5-16.0 ft	Soil	7.70	35.80	<2.06	8.85	11.50	<10.30	0.676
SB-023	10.0-10 ft	Soil	52.00	73.00	<2.17	5.07	29.20	<10.90	0.087
SB-024	19.0-19.5 ft	Soil	431.00	65.50	15.20	6.74	11.70	39.30	<0.0357
SB-025A	6.0-6.5 ft	Soil	16.70	171.00	<1.96	32.50	20.10	<9.82	0.052
SB-025B	21.0-21.5 ft	Soil	9.27	75.40	<2.20	3.77	20.60	<11.0	<0.0382
SB-026	18.5-19.0 ft	Soil	192.00	186.00	6.96	9.31	11.10	<14.1	0.492
SB-027	8.5-9.0 ft	Soil	14.20	115.00	<1.97	15.20	13.70	<9.87	<0.0318
SB-028	5.5-6.0 ft	Soil	37.30	149.00	<1.77	23.60	22.40	<8.84	0.325
SB-029	5.5-6.0 ft	Soil	46.20	197.00	<2.18	36.10	24.50	<10.9	0.435
SB-030	3.5-4.0 ft	Soil	18.50	152.00	<2.28	14.90	18.40	<11.4	<0.0351
SB-031	21.5-22.0 ft	Soil	12.90	25.50	<1.87	8.02	10.80	<9.33	<0.0304
SB-032	13.0-13.5 ft	Soil	22.20	148.00	<1.92	21.90	21.10	<9.62	0.465
SB-033	12.0-12.5 ft	Soil	33.70	205.00	<2.11	32.90	27.00	<10.50	0.280
SB-034	6.5-7.0 ft	Soil	15.00	122.00	<1.85	17.50	30.00	<9.27	0.326
SB-035	3.5-4.0 ft	Soil	28.20	56.00	<1.83	6.82	25.40	<9.13	0.126
SB-036	2.0-2.5 ft	Soil	18.50	71.70	<2.38	6.21	26.00	<11.9	0.132
SB-037	8.0-8.5 ft	Soil	17.80	88.30	<2.16	5.49	29.60	<10.8	0.167
SB-038	12.5-13.0 ft	Soil	8.42	71.40	<2.02	5.36	21.20	<10.1	0.086
SB-039	6.5-7.0 ft	Soil	9.28	63.40	<1.96	5.14	29.00	13.10	0.107
SB-040	5.5-6.0 ft	Soil	13.70	60.40	<1.87	7.16	35.80	<9.37	0.072
SB-041	2.0-2.5 ft	Soil	33.20	367.00	<2.71	43.30	28.10	16.50	0.810

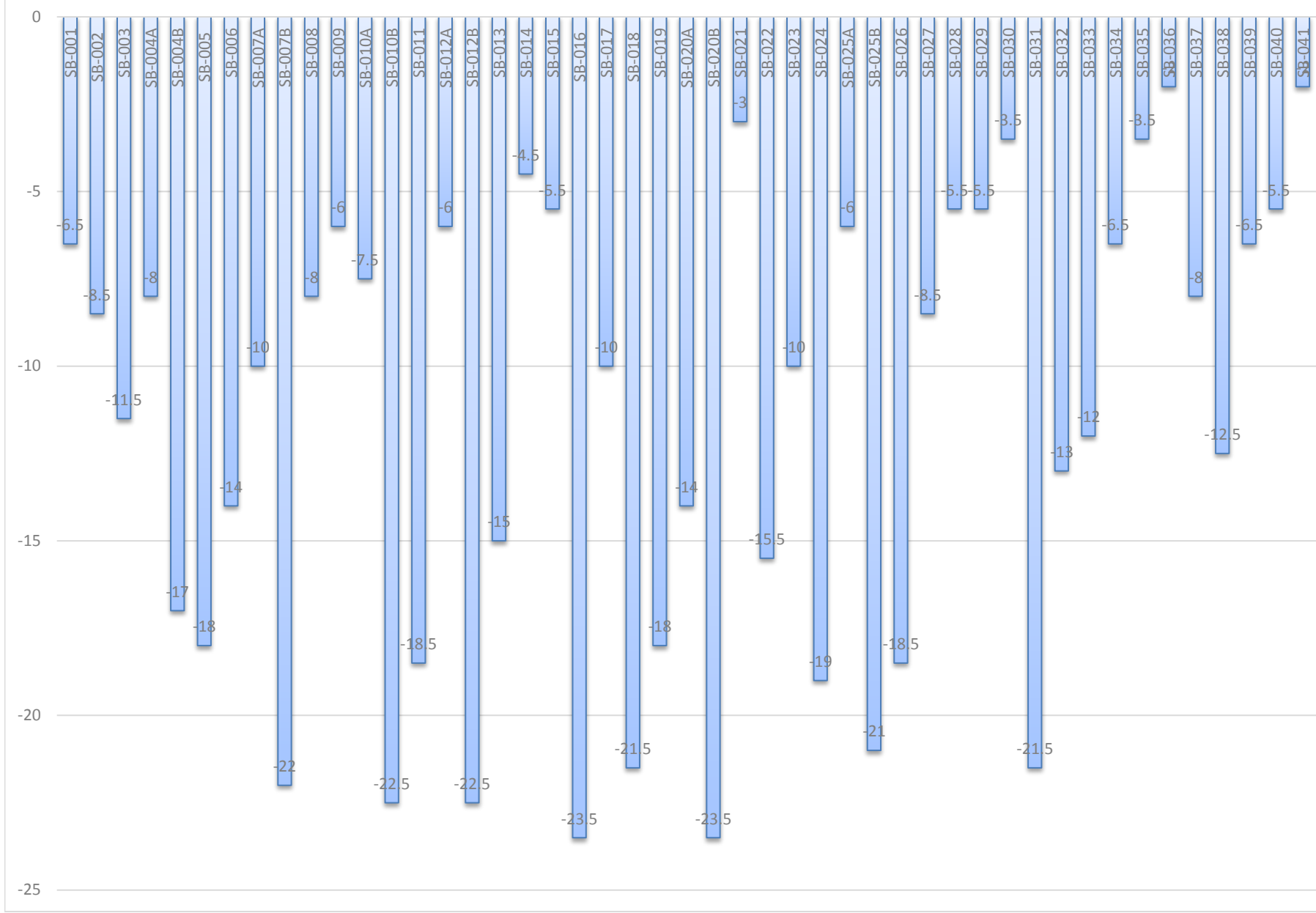
1 - 25 PA Code Chapter 250, Administration of the Land Recycling Program (Act 2), Medium Specific Concentraitons, Table 4A- Inorganic Regulated Substances in Soil: Direct Contact Values
2 - Values for Chromium VI. Result is total chromium. Levels for Chromium III are 190,000 mg/kg for Res and Non-Res.
3 - Laboratory detection limits slightly higher than Res. SHS

31 of 47 samples exceed the Residential SHS for Arsenic.

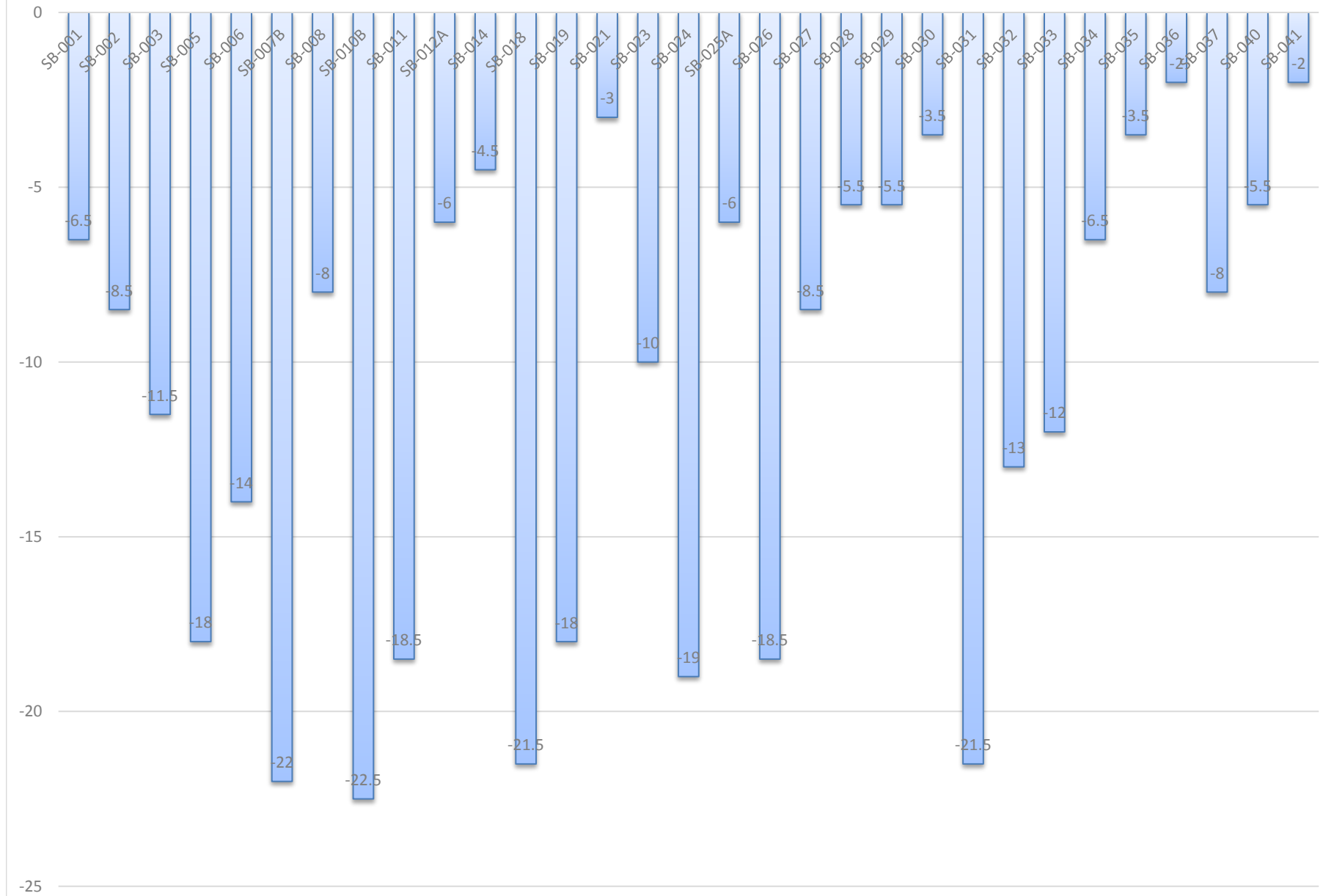
Arsenic Concentrations (mg/kg)



DEPTH OF SAMPLE



SHS Exceedances (Ft Below Ground Surface)



APPENDIX C

Appendix C – Laboratory Analytical Reports



2019 Ninth Avenue
PO Box 1925
Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-001 6.5-7'	7H23150-01	Solid	Grab	08/21/17 10:00	08/23/17 18:00
SB-002 8.5-9'	7H23150-02	Solid	Grab	08/21/17 10:20	08/23/17 18:00
SB-003 11.5-12'	7H23150-03	Solid	Grab	08/21/17 11:20	08/23/17 18:00
SB-004A 8-8.5'	7H23150-04	Solid	Grab	08/21/17 12:15	08/23/17 18:00
SB-004B 17-17.5'	7H23150-05	Solid	Grab	08/21/17 12:20	08/23/17 18:00
SB-005 18-18.5'	7H23150-06	Solid	Grab	08/21/17 14:00	08/23/17 18:00
SB-006 14-14.5'	7H23150-07	Solid	Grab	08/21/17 14:55	08/23/17 18:00
SB-007A 10-10.5'	7H23150-08	Solid	Grab	08/22/17 09:00	08/23/17 18:00
SB-007B 22-22.5'	7H23150-09	Solid	Grab	08/22/17 09:05	08/23/17 18:00
SB-008 8-8.5'	7H23150-10	Solid	Grab	08/22/17 10:05	08/23/17 18:00
SB-009 6-6.5'	7H23150-11	Solid	Grab	08/22/17 11:25	08/23/17 18:00
SB-010A 7.5-8'	7H23150-12	Solid	Grab	08/22/17 13:20	08/23/17 18:00
SB-010B 22.5-23'	7H23150-13	Solid	Grab	08/22/17 13:25	08/23/17 18:00
SB-011 18.5-19'	7H23150-14	Solid	Grab	08/22/17 14:35	08/23/17 18:00
SB-012A 6-6.5'	7H23150-15	Solid	Grab	08/23/17 09:20	08/23/17 18:00
SB-012B 22.5-23'	7H23150-16	Solid	Grab	08/23/17 09:25	08/23/17 18:00
SB-013 15-15.5'	7H23150-17	Solid	Grab	08/23/17 10:25	08/23/17 18:00
SB-014 4.5-5'	7H23150-18	Solid	Grab	08/23/17 11:45	08/23/17 18:00

Fairway Laboratories, Inc.

Reviewed and Submitted by:

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

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Michael P. Tyler
Laboratory Director



2019 Ninth Avenue
PO Box 1925
Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

Reported:

09/06/17 10:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-015 5.5-6'	7H23150-19	Solid	Grab	08/23/17 15:20	08/23/17 18:00



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Altoona, PA 16603
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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-001 6.5-7'

Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	63.5	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.97	2.97	mg/kg dry	09/01/17 10:53	EPA 6010B/2.0	sr	
Arsenic	24.0	5.94	mg/kg dry	09/01/17 10:53	EPA 6010B/2.0	sr	
Barium	478	7.42	mg/kg dry	09/01/17 10:51	EPA 6010B/2.0	sr	L
Cadmium	<2.97	2.97	mg/kg dry	09/01/17 10:53	EPA 6010B/2.0	sr	
Chromium	41.0	3.71	mg/kg dry	09/01/17 10:53	EPA 6010B/2.0	sr	
Mercury	0.934	0.0486	mg/kg dry	08/24/17 14:15	EPA 7471B	jks	
Lead	23.7	5.94	mg/kg dry	09/01/17 10:53	EPA 6010B/2.0	sr	
Selenium	23.2	14.8	mg/kg dry	09/01/17 10:53	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.028	0.028	mg/kg dry	08/29/17 05:44	EPA 8082	cdb	
PCB-1221	<0.028	0.028	mg/kg dry	08/29/17 05:44	EPA 8082	cdb	

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Reported:
09/06/17 10:42

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Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.028	0.028	mg/kg dry	08/29/17 05:44	EPA 8082	cdb	
PCB-1242	<0.028	0.028	mg/kg dry	08/29/17 05:44	EPA 8082	cdb	G
PCB-1248	<0.028	0.028	mg/kg dry	08/29/17 05:44	EPA 8082	cdb	
PCB-1254	<0.028	0.028	mg/kg dry	08/29/17 05:44	EPA 8082	cdb	
PCB-1260	<0.028	0.028	mg/kg dry	08/29/17 05:44	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	84.2 %	11-140		08/29/17 05:44	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	80.6 %	24.4-140		08/29/17 05:44	EPA 8082	cdb	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pyridine	<2.09	2.09	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Diphenylamine	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Benzidine	<5.22	5.22	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Acenaphthene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Acenaphthylene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Anthracene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Benzoic acid	<10.4	10.4	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Benzo (a) anthracene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Benzo (b) fluoranthene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Benzo (k) fluoranthene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-001 6.5-7'

Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Benzo (a) pyrene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Benzyl alcohol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Butyl benzyl phthalate	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
4-Chloroaniline	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2-Chloronaphthalene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
2-Chlorophenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Chrysene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Dibenzofuran	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Di-n-butyl phthalate	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
1,3-Dichlorobenzene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
1,4-Dichlorobenzene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2,4-Dichlorophenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Diethyl phthalate	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
2,4-Dimethylphenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Dimethyl phthalate	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<5.22	5.22	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2,4-Dinitrophenol	<5.22	5.22	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2,4-Dinitrotoluene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Di-n-octyl phthalate	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Aniline	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Naphthalene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
N-Nitrosodimethylamine	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
3 & 4-Methylphenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Acetophenone	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	

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Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Fluoranthene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Fluorene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Hexachlorobenzene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Hexachlorobutadiene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Hexachloroethane	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Isophorone	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2-Methylnaphthalene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2-Methylphenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2-Nitroaniline	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
3-Nitroaniline	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	H
4-Nitroaniline	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Nitrobenzene	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2-Nitrophenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
4-Nitrophenol	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<1.04	1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	

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Project Number: [none]
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09/06/17 10:42

Client Sample ID: SB-001 6.5-7'

Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<5.22		5.22	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Phenanthrene	<1.04		1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Phenol	<1.04		1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
Pyrene	<1.04		1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<1.04		1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<1.04		1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<1.04		1.04	mg/kg dry	08/24/17 19:30	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	110 %		10-169		08/24/17 19:30	EPA 8270D	cdb	
Surrogate: Phenol-d6	107 %		10-166		08/24/17 19:30	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	119 %		18.8-170		08/24/17 19:30	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	120 %		35.1-154		08/24/17 19:30	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	102 %		20-158		08/24/17 19:30	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	80 %		52.1-160		08/24/17 19:30	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.750		0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.750		0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Benzene	<0.300		0.300	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Toluene	<0.750		0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Ethylbenzene	<0.750		0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-001 6.5-7'

Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	E
Naphthalene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Acrylonitrile	<1.50	1.50	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Bromobenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Bromochloromethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Bromodichloromethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Bromoform	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Bromomethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
sec-Butylbenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
tert-Butylbenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
n-Butylbenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Carbon disulfide	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Chlorobenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Chloroethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Chloroform	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Chloromethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	F
4-Chlorotoluene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-001 6.5-7'

Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	E
Dibromochloromethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.300	0.300	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	E
Dibromomethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.750	0.750	mg/kg dry	08/31/17 16:43	EPA 8260B	mtc	
1,2-Dichloroethane	<0.300	0.300	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,1-Dichloroethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,1-Dichloroethene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	D
2,2-Dichloropropane	<0.750	0.750	mg/kg dry	08/31/17 16:43	EPA 8260B	mtc	
1,3-Dichloropropane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2-Dichloropropane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-001 6.5-7'

Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
p-Isopropyltoluene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Methylene chloride	<3.00	3.00	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	D
n-Propylbenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Styrene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Tetrachloroethene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Trichloroethene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Trichlorofluoromethane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	

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Date/Time Sampled: 08/21/17 10:00

Laboratory Sample ID: 7H23150-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.300	0.300	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	D
o-Xylene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
m,p-Xylene	<0.750	0.750	mg/kg dry	08/28/17 18:02	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96 %	70-130		08/28/17 18:02	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		08/28/17 18:02	EPA 8260B	mtc	
Surrogate: Fluorobenzene	107 %	70-130		08/28/17 18:02	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	61.6	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.84	2.84	mg/kg dry	09/01/17 11:07	EPA 6010B/2.0	sr	
Arsenic	23.7	5.68	mg/kg dry	09/01/17 11:07	EPA 6010B/2.0	sr	
Barium	482	7.10	mg/kg dry	09/01/17 11:05	EPA 6010B/2.0	sr	L
Cadmium	<2.84	2.84	mg/kg dry	09/01/17 11:07	EPA 6010B/2.0	sr	
Chromium	43.8	3.55	mg/kg dry	09/01/17 11:07	EPA 6010B/2.0	sr	
Mercury	1.08	0.0469	mg/kg dry	08/24/17 14:16	EPA 7471B	jks	
Lead	29.9	5.68	mg/kg dry	09/01/17 11:07	EPA 6010B/2.0	sr	
Selenium	15.1	14.2	mg/kg dry	09/01/17 11:07	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.028	0.028	mg/kg dry	08/29/17 06:16	EPA 8082	cdb	
PCB-1221	<0.028	0.028	mg/kg dry	08/29/17 06:16	EPA 8082	cdb	

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Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.028	0.028	mg/kg dry	08/29/17 06:16	EPA 8082	cdb	
PCB-1242	<0.028	0.028	mg/kg dry	08/29/17 06:16	EPA 8082	cdb	G
PCB-1248	<0.028	0.028	mg/kg dry	08/29/17 06:16	EPA 8082	cdb	
PCB-1254	<0.028	0.028	mg/kg dry	08/29/17 06:16	EPA 8082	cdb	
PCB-1260	<0.028	0.028	mg/kg dry	08/29/17 06:16	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	97.4 %	11-140		08/29/17 06:16	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	92.5 %	24.4-140		08/29/17 06:16	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<2.14	2.14	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Benzidine	<5.36	5.36	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Diphenylamine	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Acenaphthene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Acenaphthylene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Anthracene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Benzoic acid	<10.7	10.7	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Benzo (a) anthracene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Benzo (b) fluoranthene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Benzo (k) fluoranthene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Benzo (a) pyrene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Benzyl alcohol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Butyl benzyl phthalate	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
4-Chloroaniline	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2-Chloronaphthalene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
2-Chlorophenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Chrysene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Dibenzofuran	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Di-n-butyl phthalate	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
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Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
1,3-Dichlorobenzene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
1,4-Dichlorobenzene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2,4-Dichlorophenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Diethyl phthalate	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
2,4-Dimethylphenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Dimethyl phthalate	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<5.36	5.36	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2,4-Dinitrophenol	<5.36	5.36	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2,4-Dinitrotoluene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Di-n-octyl phthalate	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Aniline	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Naphthalene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
N-Nitrosodimethylamine	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Acetophenone	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
3 & 4-Methylphenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	

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Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Fluoranthene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Fluorene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Hexachlorobenzene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Hexachlorobutadiene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Hexachloroethane	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Isophorone	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2-Methylnaphthalene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2-Methylphenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2-Nitroaniline	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
3-Nitroaniline	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	H
4-Nitroaniline	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Nitrobenzene	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2-Nitrophenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
4-Nitrophenol	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<1.07	1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	

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09/06/17 10:42

Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<5.36		5.36	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Phenanthrene	<1.07		1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Phenol	<1.07		1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
Pyrene	<1.07		1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<1.07		1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<1.07		1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<1.07		1.07	mg/kg dry	08/24/17 19:57	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	107 %		10-169		08/24/17 19:57	EPA 8270D	cdb	
Surrogate: Phenol-d6	105 %		10-166		08/24/17 19:57	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	126 %		18.8-170		08/24/17 19:57	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	130 %		35.1-154		08/24/17 19:57	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	99 %		20-158		08/24/17 19:57	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	113 %		52.1-160		08/24/17 19:57	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0075		0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0075		0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc	
Benzene	<0.0030		0.0030	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc	
Toluene	<0.0075		0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc	
Ethylbenzene	<0.0075		0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Naphthalene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Acrylonitrile	<0.0149	0.0149	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Bromobenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Bromochloromethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Bromodichloromethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Bromoform	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Bromomethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
sec-Butylbenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
tert-Butylbenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
n-Butylbenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Carbon disulfide	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Chlorobenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Chloroethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Chloroform	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Chloromethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
4-Chlorotoluene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Dibromochloromethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0030	0.0030	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Dibromomethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2-Dichloroethane	<0.0030	0.0030	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,1-Dichloroethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,1-Dichloroethene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
2,2-Dichloropropane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,3-Dichloropropane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2-Dichloropropane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
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Client Sample ID: SB-002 8.5-9'

Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,1-Dichloropropene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Hexachlorobutadiene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
p-Isopropyltoluene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Methylene chloride	<0.0298	0.0298	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
n-Propylbenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Styrene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Tetrachloroethene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Trichloroethene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Trichlorofluoromethane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

Reported:

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Date/Time Sampled: 08/21/17 10:20

Laboratory Sample ID: 7H23150-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0030	0.0030	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
o-Xylene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
m,p-Xylene	<0.0075	0.0075	mg/kg dry	08/25/17 04:12	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	98 %	70-130		08/25/17 04:12	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		08/25/17 04:12	EPA 8260B	mtc
Surrogate: Fluorobenzene	99 %	70-130		08/25/17 04:12	EPA 8260B	mtc

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	83.8	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.23	2.23	mg/kg dry	09/01/17 11:21	EPA 6010B/2.0	sr	
Arsenic	15.3	4.47	mg/kg dry	09/01/17 11:21	EPA 6010B/2.0	sr	
Barium	55.3	5.58	mg/kg dry	09/01/17 11:19	EPA 6010B/2.0	sr	L
Cadmium	<2.23	2.23	mg/kg dry	09/01/17 11:21	EPA 6010B/2.0	sr	
Chromium	5.59	2.79	mg/kg dry	09/01/17 11:21	EPA 6010B/2.0	sr	
Mercury	0.185	0.0332	mg/kg dry	08/24/17 14:18	EPA 7471B	jks	H
Lead	33.4	4.47	mg/kg dry	09/01/17 11:21	EPA 6010B/2.0	sr	
Selenium	<11.2	11.2	mg/kg dry	09/01/17 11:21	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.022	0.022	mg/kg dry	08/29/17 06:48	EPA 8082	cdh	
PCB-1221	<0.022	0.022	mg/kg dry	08/29/17 06:48	EPA 8082	cdh	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.022	0.022	mg/kg dry	08/29/17 06:48	EPA 8082	cdb	
PCB-1242	<0.022	0.022	mg/kg dry	08/29/17 06:48	EPA 8082	cdb	G
PCB-1248	<0.022	0.022	mg/kg dry	08/29/17 06:48	EPA 8082	cdb	
PCB-1254	<0.022	0.022	mg/kg dry	08/29/17 06:48	EPA 8082	cdb	
PCB-1260	<0.022	0.022	mg/kg dry	08/29/17 06:48	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	28.9 %	11-140		08/29/17 06:48	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	92.6 %	24.4-140		08/29/17 06:48	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<3.87	3.87	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Diphenylamine	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Pyridine	<1.55	1.55	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Acenaphthene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Acenaphthylene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Anthracene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Benzoic acid	<7.74	7.74	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Benzo (a) anthracene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Benzo (a) pyrene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Benzyl alcohol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
4-Chloroaniline	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2-Chloronaphthalene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
2-Chlorophenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Chrysene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Dibenzofuran	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Diethyl phthalate	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Dimethyl phthalate	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<3.87	3.87	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2,4-Dinitrophenol	<3.87	3.87	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Aniline	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Naphthalene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Acetophenone	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Fluoranthene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Fluorene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Hexachlorobenzene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Hexachlorobutadiene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Hexachloroethane	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Isophorone	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2-Methylnaphthalene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2-Methylphenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2-Nitroaniline	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
3-Nitroaniline	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	H
4-Nitroaniline	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Nitrobenzene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2-Nitrophenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
4-Nitrophenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported: 09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<3.87	3.87	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Phenanthrene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Phenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
Pyrene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.774	0.774	mg/kg dry	08/24/17 20:24	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	120 %	10-169		08/24/17 20:24	EPA 8270D	cdb	
Surrogate: Phenol-d6	112 %	10-166		08/24/17 20:24	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	126 %	18.8-170		08/24/17 20:24	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	134 %	35.1-154		08/24/17 20:24	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	117 %	20-158		08/24/17 20:24	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	128 %	52.1-160		08/24/17 20:24	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Benzene	<0.0016	0.0016	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Toluene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Ethylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Naphthalene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Acrylonitrile	<0.0081	0.0081	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Bromobenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Bromochloromethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Bromodichloromethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Bromoform	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Bromomethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
sec-Butylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
tert-Butylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
n-Butylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Carbon disulfide	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Chlorobenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Chloroethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Chloroform	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Chloromethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
4-Chlorotoluene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Dibromochloromethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0016	0.0016	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Dibromomethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2-Dichloroethane	<0.0016	0.0016	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,1-Dichloroethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,1-Dichloroethene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
2,2-Dichloropropane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,3-Dichloropropane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2-Dichloropropane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,1-Dichloropropene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Hexachlorobutadiene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
p-Isopropyltoluene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Methylene chloride	<0.0163	0.0163	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
n-Propylbenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Styrene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Tetrachloroethene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Trichloroethene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Trichlorofluoromethane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-003 11.5-12'

Date/Time Sampled: 08/21/17 11:20

Laboratory Sample ID: 7H23150-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0016	0.0016	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
o-Xylene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
m,p-Xylene	<0.0041	0.0041	mg/kg dry	08/25/17 05:16	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	75 %	70-130		08/25/17 05:16	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		08/25/17 05:16	EPA 8260B	mtc
Surrogate: Fluorobenzene	99 %	70-130		08/25/17 05:16	EPA 8260B	mtc

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	79.0	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.13	2.13	mg/kg dry	09/01/17 11:48	EPA 6010B/2.0	sr	
Arsenic	11.6	4.26	mg/kg dry	09/01/17 11:49	EPA 6010B/2.0	sr	
Barium	79.3	5.33	mg/kg dry	09/01/17 11:47	EPA 6010B/2.0	sr	L
Cadmium	<2.13	2.13	mg/kg dry	09/01/17 11:49	EPA 6010B/2.0	sr	
Chromium	7.27	2.66	mg/kg dry	09/01/17 11:48	EPA 6010B/2.0	sr	
Mercury	0.0475	0.0325	mg/kg dry	08/28/17 13:45	EPA 7471B	jks	
Lead	15.1	4.26	mg/kg dry	09/01/17 11:49	EPA 6010B/2.0	sr	
Selenium	<10.7	10.7	mg/kg dry	09/01/17 11:49	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.023	0.023	mg/kg dry	08/29/17 07:20	EPA 8082	cdb	
PCB-1221	<0.023	0.023	mg/kg dry	08/29/17 07:20	EPA 8082	cdb	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.023	0.023	mg/kg dry	08/29/17 07:20	EPA 8082	cdb	
PCB-1242	<0.023	0.023	mg/kg dry	08/29/17 07:20	EPA 8082	cdb	G
PCB-1248	<0.023	0.023	mg/kg dry	08/29/17 07:20	EPA 8082	cdb	
PCB-1254	<0.023	0.023	mg/kg dry	08/29/17 07:20	EPA 8082	cdb	
PCB-1260	<0.023	0.023	mg/kg dry	08/29/17 07:20	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	48.8 %	11-140		08/29/17 07:20	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	95.7 %	24.4-140		08/29/17 07:20	EPA 8082	cdb	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzidine	<4.17	4.17	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Pyridine	<1.67	1.67	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Diphenylamine	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Acenaphthene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Acenaphthylene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Anthracene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Benzoic acid	<8.33	8.33	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Benzo (a) anthracene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	

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NELAP: PA 07-062, VA 460212

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Benzo (a) pyrene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Benzyl alcohol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
4-Chloroaniline	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2-Chloronaphthalene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
2-Chlorophenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Chrysene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Dibenzofuran	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F

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Project: PAGNOTTI
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Reported:
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Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Diethyl phthalate	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Dimethyl phthalate	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<4.17	4.17	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2,4-Dinitrophenol	<4.17	4.17	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Aniline	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Naphthalene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Acetophenone	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	

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Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Fluoranthene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Fluorene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Hexachlorobenzene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Hexachlorobutadiene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Hexachloroethane	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Isophorone	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2-Methylnaphthalene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2-Methylphenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2-Nitroaniline	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
3-Nitroaniline	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	H
4-Nitroaniline	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Nitrobenzene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2-Nitrophenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
4-Nitrophenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	

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Pennssdale, PA 17756
(570) 494-6380
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Project: PAGNOTTI
Project Number: [none]
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09/06/17 10:42

Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<4.17	4.17	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Phenanthrene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Phenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
Pyrene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.833	0.833	mg/kg dry	08/24/17 20:51	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	114 %	10-169		08/24/17 20:51	EPA 8270D	cdb	
Surrogate: Phenol-d6	109 %	10-166		08/24/17 20:51	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	107 %	18.8-170		08/24/17 20:51	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	130 %	35.1-154		08/24/17 20:51	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	104 %	20-158		08/24/17 20:51	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	126 %	52.1-160		08/24/17 20:51	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc	
Benzene	<0.0022	0.0022	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc	
Toluene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc	
Ethylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc	

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Naphthalene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Acrylonitrile	<0.0109	0.0109	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Bromobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Bromochloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Bromodichloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Bromoform	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Bromomethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
sec-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
tert-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
n-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Carbon disulfide	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Chlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Chloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Chloroform	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Chloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
4-Chlorotoluene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Dibromochloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0022	0.0022	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Dibromomethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2-Dichloroethane	<0.0022	0.0022	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,1-Dichloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,1-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
2,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,3-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

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Client Sample ID: SB-004A 8-8.5'

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Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,1-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Hexachlorobutadiene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
p-Isopropyltoluene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Methylene chloride	<0.0219	0.0219	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
n-Propylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Styrene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Tetrachloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Trichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Trichlorofluoromethane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004A 8-8.5'

Date/Time Sampled: 08/21/17 12:15

Laboratory Sample ID: 7H23150-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0022	0.0022	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
o-Xylene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
m,p-Xylene	<0.0055	0.0055	mg/kg dry	08/25/17 05:53	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	92 %	70-130		08/25/17 05:53	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	120 %	70-130		08/25/17 05:53	EPA 8260B	mtc
Surrogate: Fluorobenzene	101 %	70-130		08/25/17 05:53	EPA 8260B	mtc

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	77.4	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.08	2.08	mg/kg dry	09/01/17 12:03	EPA 6010B/2.0	sr	
Arsenic	11.0	4.15	mg/kg dry	09/01/17 12:03	EPA 6010B/2.0	sr	
Barium	76.8	5.19	mg/kg dry	09/01/17 12:01	EPA 6010B/2.0	sr	L
Cadmium	<2.08	2.08	mg/kg dry	09/01/17 12:03	EPA 6010B/2.0	sr	
Chromium	6.27	2.60	mg/kg dry	09/01/17 12:03	EPA 6010B/2.0	sr	
Mercury	0.0787	0.0344	mg/kg dry	08/28/17 13:46	EPA 7471B	jks	
Lead	17.7	4.15	mg/kg dry	09/01/17 12:03	EPA 6010B/2.0	sr	
Selenium	<10.4	10.4	mg/kg dry	09/01/17 12:03	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.039	0.039	mg/kg dry	08/31/17 22:14	EPA 8082	rsr	D
PCB-1221	<0.039	0.039	mg/kg dry	08/31/17 22:14	EPA 8082	rsr	

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Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.039	0.039	mg/kg dry	08/31/17 22:14	EPA 8082	rsr	
PCB-1242	<0.039	0.039	mg/kg dry	08/31/17 22:14	EPA 8082	rsr	
PCB-1248	<0.039	0.039	mg/kg dry	08/31/17 22:14	EPA 8082	rsr	
PCB-1254	<0.039	0.039	mg/kg dry	08/31/17 22:14	EPA 8082	rsr	
PCB-1260	<0.039	0.039	mg/kg dry	08/31/17 22:14	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	112 %	11-140		08/31/17 22:14	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	91.3 %	24.4-140		08/31/17 22:14	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<1.65	1.65	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Diphenylamine	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Benzidine	<4.13	4.13	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Acenaphthene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Acenaphthylene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Anthracene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Benzoic acid	<8.26	8.26	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Benzo (a) anthracene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Benzo (a) pyrene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Benzyl alcohol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
4-Chloroaniline	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2-Chloronaphthalene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
2-Chlorophenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Chrysene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Dibenzofuran	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F

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PaDEP: PA 41-04684



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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Diethyl phthalate	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Dimethyl phthalate	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<4.13	4.13	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2,4-Dinitrophenol	<4.13	4.13	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Aniline	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Naphthalene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Acetophenone	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	

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Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Fluoranthene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Fluorene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Hexachlorobenzene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Hexachlorobutadiene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Hexachloroethane	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Isophorone	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2-Methylnaphthalene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2-Methylphenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2-Nitroaniline	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
3-Nitroaniline	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	H
4-Nitroaniline	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Nitrobenzene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2-Nitrophenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
4-Nitrophenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
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Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<4.13	4.13	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Phenanthrene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Phenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
Pyrene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.826	0.826	mg/kg dry	08/24/17 21:18	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	123 %	10-169		08/24/17 21:18	EPA 8270D	cdb	
Surrogate: Phenol-d6	118 %	10-166		08/24/17 21:18	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	134 %	18.8-170		08/24/17 21:18	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	140 %	35.1-154		08/24/17 21:18	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	115 %	20-158		08/24/17 21:18	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	140 %	52.1-160		08/24/17 21:18	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc	
Benzene	<0.0022	0.0022	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc	
Toluene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc	
Ethylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Naphthalene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Acrylonitrile	<0.0109	0.0109	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Bromobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Bromochloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Bromodichloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Bromoform	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Bromomethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
sec-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
tert-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
n-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Carbon disulfide	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Chlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Chloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Chloroform	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Chloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
4-Chlorotoluene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Dibromochloromethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0022	0.0022	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Dibromomethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2-Dichloroethane	<0.0022	0.0022	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,1-Dichloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,1-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
2,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,3-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
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Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,1-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Hexachlorobutadiene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
p-Isopropyltoluene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Methylene chloride	<0.0219	0.0219	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
n-Propylbenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Styrene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Tetrachloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Trichloroethene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Trichlorofluoromethane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc

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Project: PAGNOTTI
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Reported:
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Client Sample ID: SB-004B 17-17.5'

Date/Time Sampled: 08/21/17 12:20

Laboratory Sample ID: 7H23150-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0022	0.0022	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
o-Xylene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
m,p-Xylene	<0.0055	0.0055	mg/kg dry	08/25/17 06:30	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	92 %	70-130		08/25/17 06:30	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		08/25/17 06:30	EPA 8260B	mtc
Surrogate: Fluorobenzene	104 %	70-130		08/25/17 06:30	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	85.2	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.11	2.11	mg/kg dry	09/01/17 12:17	EPA 6010B/2.0	sr	
Arsenic	29.4	4.23	mg/kg dry	09/01/17 12:18	EPA 6010B/2.0	sr	
Barium	66.4	5.29	mg/kg dry	09/01/17 12:16	EPA 6010B/2.0	sr	L
Cadmium	<2.11	2.11	mg/kg dry	09/01/17 12:18	EPA 6010B/2.0	sr	
Chromium	4.82	2.64	mg/kg dry	09/01/17 12:18	EPA 6010B/2.0	sr	
Mercury	0.299	0.0332	mg/kg dry	08/28/17 13:48	EPA 7471B	jks	
Lead	35.6	4.23	mg/kg dry	09/01/17 12:18	EPA 6010B/2.0	sr	
Selenium	10.8	10.6	mg/kg dry	09/01/17 12:18	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.023	0.023	mg/kg dry	08/31/17 22:46	EPA 8082	rsr	D
PCB-1221	<0.023	0.023	mg/kg dry	08/31/17 22:46	EPA 8082	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.023	0.023	mg/kg dry	08/31/17 22:46	EPA 8082	rsr	
PCB-1242	<0.023	0.023	mg/kg dry	08/31/17 22:46	EPA 8082	rsr	
PCB-1248	<0.023	0.023	mg/kg dry	08/31/17 22:46	EPA 8082	rsr	
PCB-1254	<0.023	0.023	mg/kg dry	08/31/17 22:46	EPA 8082	rsr	
PCB-1260	<0.023	0.023	mg/kg dry	08/31/17 22:46	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	110 %	11-140		08/31/17 22:46	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	96.1 %	24.4-140		08/31/17 22:46	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzidine	<3.78	3.78	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Diphenylamine	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Pyridine	<1.51	1.51	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Acenaphthene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Acenaphthylene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Anthracene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Benzoic acid	<7.55	7.55	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Benzo (a) anthracene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Benzo (a) pyrene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Benzyl alcohol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
4-Chloroaniline	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2-Chloronaphthalene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
2-Chlorophenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Chrysene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Dibenzofuran	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Diethyl phthalate	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Dimethyl phthalate	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<3.78	3.78	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2,4-Dinitrophenol	<3.78	3.78	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Aniline	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Naphthalene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Acetophenone	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Fluoranthene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Fluorene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Hexachlorobenzene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Hexachlorobutadiene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Hexachloroethane	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Isophorone	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2-Methylnaphthalene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2-Methylphenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2-Nitroaniline	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
3-Nitroaniline	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	H
4-Nitroaniline	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Nitrobenzene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2-Nitrophenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
4-Nitrophenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<3.78	3.78	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Phenanthrene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Phenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
Pyrene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.755	0.755	mg/kg dry	08/24/17 21:45	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	116 %	10-169		08/24/17 21:45	EPA 8270D	cdb	
Surrogate: Phenol-d6	111 %	10-166		08/24/17 21:45	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	129 %	18.8-170		08/24/17 21:45	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	134 %	35.1-154		08/24/17 21:45	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	110 %	20-158		08/24/17 21:45	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	133 %	52.1-160		08/24/17 21:45	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Benzene	<0.0025	0.0025	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Toluene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Ethylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Naphthalene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Acrylonitrile	<0.0123	0.0123	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Bromobenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Bromochloromethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Bromodichloromethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Bromoform	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Bromomethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
sec-Butylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
tert-Butylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
n-Butylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Carbon disulfide	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Chlorobenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Chloroethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Chloroform	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Chloromethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
4-Chlorotoluene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Dibromochloromethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0025	0.0025	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Dibromomethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2-Dichloroethane	<0.0025	0.0025	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,1-Dichloroethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,1-Dichloroethene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
2,2-Dichloropropane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,3-Dichloropropane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2-Dichloropropane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc

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Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,1-Dichloropropene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Hexachlorobutadiene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
p-Isopropyltoluene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Methylene chloride	<0.0246	0.0246	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
n-Propylbenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Styrene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Tetrachloroethene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Trichloroethene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
Trichlorofluoromethane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc

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PaDEP: PA 41-04684



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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-005 18-18.5'

Date/Time Sampled: 08/21/17 14:00

Laboratory Sample ID: 7H23150-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0025	0.0025	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc	
o-Xylene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc	
m,p-Xylene	<0.0062	0.0062	mg/kg dry	08/25/17 07:08	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	69 %	70-130		08/25/17 07:08	EPA 8260B	mtc	P
Surrogate: 1,2-Dichloroethane-d4	120 %	70-130		08/25/17 07:08	EPA 8260B	mtc	
Surrogate: Fluorobenzene	103 %	70-130		08/25/17 07:08	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	79.1	0.100	%	08/24/17 20:00	SM 2540 G-97	pra

Metals by EPA 6000/7000 Series Methods

Silver	<2.08	2.08	mg/kg dry	09/03/17 21:47	EPA 6010B/2.0	sr
Arsenic	72.4	4.16	mg/kg dry	09/03/17 21:47	EPA 6010B/2.0	sr
Barium	98.4	5.19	mg/kg dry	09/03/17 21:45	EPA 6010B/2.0	sr
Cadmium	2.12	2.08	mg/kg dry	09/03/17 21:47	EPA 6010B/2.0	sr
Chromium	4.75	2.60	mg/kg dry	09/03/17 21:47	EPA 6010B/2.0	sr
Mercury	0.483	0.0368	mg/kg dry	08/28/17 13:50	EPA 7471B	jks
Lead	62.1	4.16	mg/kg dry	09/03/17 21:47	EPA 6010B/2.0	sr
Selenium	18.4	10.4	mg/kg dry	09/03/17 21:47	EPA 6010B/2.0	sr

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.012	0.012	mg/kg dry	08/31/17 23:18	EPA 8082	rsr	D
PCB-1221	<0.012	0.012	mg/kg dry	08/31/17 23:18	EPA 8082	rsr	

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Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.012	0.012	mg/kg dry	08/31/17 23:18	EPA 8082	rsr	
PCB-1242	<0.012	0.012	mg/kg dry	08/31/17 23:18	EPA 8082	rsr	
PCB-1248	<0.012	0.012	mg/kg dry	08/31/17 23:18	EPA 8082	rsr	
PCB-1254	<0.012	0.012	mg/kg dry	08/31/17 23:18	EPA 8082	rsr	
PCB-1260	<0.012	0.012	mg/kg dry	08/31/17 23:18	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	110 %	11-140		08/31/17 23:18	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	97.7 %	24.4-140		08/31/17 23:18	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<2.10	2.10	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Pyridine	<0.840	0.840	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Diphenylamine	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Acenaphthene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Acenaphthylene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Anthracene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Benzoic acid	<4.20	4.20	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Benzo (a) anthracene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Benzo (a) pyrene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Benzyl alcohol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
4-Chloroaniline	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2-Chloronaphthalene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
2-Chlorophenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Chrysene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Dibenzofuran	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F

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Altoona, PA 16603
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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

Reported:

09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Diethyl phthalate	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Dimethyl phthalate	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<2.10	2.10	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2,4-Dinitrophenol	<2.10	2.10	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Aniline	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Naphthalene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Acetophenone	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

Reported:

09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Fluoranthene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Fluorene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Hexachlorobenzene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Hexachlorobutadiene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Hexachloroethane	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Isophorone	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2-Methylnaphthalene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2-Methylphenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2-Nitroaniline	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
3-Nitroaniline	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	H
4-Nitroaniline	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Nitrobenzene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2-Nitrophenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
4-Nitrophenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.10	2.10	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Phenanthrene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Phenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
Pyrene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.420	0.420	mg/kg dry	08/24/17 22:12	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	114 %	10-169		08/24/17 22:12	EPA 8270D	cdb	
Surrogate: Phenol-d6	109 %	10-166		08/24/17 22:12	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	113 %	18.8-170		08/24/17 22:12	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	126 %	35.1-154		08/24/17 22:12	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	103 %	20-158		08/24/17 22:12	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	121 %	52.1-160		08/24/17 22:12	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc	
Benzene	<0.0023	0.0023	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc	
Toluene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc	
Ethylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Naphthalene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Acrylonitrile	<0.0113	0.0113	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Bromobenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Bromochloromethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Bromodichloromethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Bromoform	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Bromomethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
sec-Butylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
tert-Butylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
n-Butylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Carbon disulfide	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Chlorobenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Chloroethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Chloroform	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Chloromethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
4-Chlorotoluene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Dibromochloromethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0023	0.0023	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Dibromomethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2-Dichloroethane	<0.0023	0.0023	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,1-Dichloroethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,1-Dichloroethene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
2,2-Dichloropropane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,3-Dichloropropane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2-Dichloropropane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,1-Dichloropropene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Hexachlorobutadiene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
p-Isopropyltoluene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Methylene chloride	<0.0226	0.0226	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
n-Propylbenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Styrene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Tetrachloroethene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Trichloroethene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Trichlorofluoromethane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-006 14-14.5'

Date/Time Sampled: 08/21/17 14:55

Laboratory Sample ID: 7H23150-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0023	0.0023	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
o-Xylene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
m,p-Xylene	<0.0056	0.0056	mg/kg dry	08/25/17 07:45	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	89 %	70-130		08/25/17 07:45	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	125 %	70-130		08/25/17 07:45	EPA 8260B	mtc
Surrogate: Fluorobenzene	106 %	70-130		08/25/17 07:45	EPA 8260B	mtc

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

Reported:

09/06/17 10:42

Client Sample ID: SB-007A 10-10.5'

Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	87.0	0.100	%	08/24/17 20:00	SM 2540 G-97	pra

Metals by EPA 6000/7000 Series Methods

Silver	<2.06	2.06	mg/kg dry	09/03/17 22:07	EPA 6010B/2.0	sr
Arsenic	7.22	4.11	mg/kg dry	09/03/17 22:07	EPA 6010B/2.0	sr
Barium	52.0	5.14	mg/kg dry	09/03/17 22:05	EPA 6010B/2.0	sr
Cadmium	<2.06	2.06	mg/kg dry	09/03/17 22:07	EPA 6010B/2.0	sr
Chromium	5.43	2.57	mg/kg dry	09/03/17 22:07	EPA 6010B/2.0	sr
Mercury	0.0951	0.0320	mg/kg dry	08/28/17 13:51	EPA 7471B	jks
Lead	14.2	4.11	mg/kg dry	09/03/17 22:07	EPA 6010B/2.0	sr
Selenium	<10.3	10.3	mg/kg dry	09/03/17 22:07	EPA 6010B/2.0	sr

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	08/31/17 23:50	EPA 8082	rsr	D
PCB-1221	<0.011	0.011	mg/kg dry	08/31/17 23:50	EPA 8082	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007A 10-10.5'

Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	08/31/17 23:50	EPA 8082	rsr	
PCB-1242	<0.011	0.011	mg/kg dry	08/31/17 23:50	EPA 8082	rsr	
PCB-1248	<0.011	0.011	mg/kg dry	08/31/17 23:50	EPA 8082	rsr	
PCB-1254	<0.011	0.011	mg/kg dry	08/31/17 23:50	EPA 8082	rsr	
PCB-1260	<0.011	0.011	mg/kg dry	08/31/17 23:50	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	104 %	11-140		08/31/17 23:50	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	101 %	24.4-140		08/31/17 23:50	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<0.762	0.762	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Diphenylamine	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Benzidine	<1.90	1.90	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Acenaphthene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Acenaphthylene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Anthracene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Benzoic acid	<3.81	3.81	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Benzo (a) anthracene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007A 10-10.5'

Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Benzo (a) pyrene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Benzyl alcohol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
4-Chloroaniline	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2-Chloronaphthalene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
2-Chlorophenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Chrysene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Dibenzofuran	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007A 10-10.5'

Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Diethyl phthalate	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Dimethyl phthalate	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.90	1.90	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.90	1.90	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Aniline	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Naphthalene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Acetophenone	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

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Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Fluoranthene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Fluorene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Hexachlorobenzene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Hexachlorobutadiene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Hexachloroethane	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Isophorone	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2-Methylnaphthalene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2-Methylphenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2-Nitroaniline	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
3-Nitroaniline	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	H
4-Nitroaniline	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Nitrobenzene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2-Nitrophenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
4-Nitrophenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
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Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.90	1.90	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Phenanthrene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Phenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
Pyrene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.381	0.381	mg/kg dry	08/24/17 22:39	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	111 %	10-169		08/24/17 22:39	EPA 8270D	cdb	
Surrogate: Phenol-d6	107 %	10-166		08/24/17 22:39	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	118 %	18.8-170		08/24/17 22:39	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	124 %	35.1-154		08/24/17 22:39	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	106 %	20-158		08/24/17 22:39	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	127 %	52.1-160		08/24/17 22:39	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc	
Benzene	<0.0021	0.0021	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc	
Toluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc	
Ethylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007A 10-10.5'

Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Naphthalene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Acrylonitrile	<0.0104	0.0104	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Bromobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Bromochloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Bromodichloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Bromoform	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Bromomethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
sec-Butylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
tert-Butylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
n-Butylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Carbon disulfide	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Chlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Chloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Chloroform	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Chloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
4-Chlorotoluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007A 10-10.5'

Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Dibromochloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0021	0.0021	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Dibromomethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2-Dichloroethane	<0.0021	0.0021	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,1-Dichloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,1-Dichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
2,2-Dichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,3-Dichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2-Dichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007A 10-10.5'

Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,1-Dichloropropene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Hexachlorobutadiene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
p-Isopropyltoluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Methylene chloride	<0.0208	0.0208	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
n-Propylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Styrene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Tetrachloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Trichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Trichlorofluoromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc

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09/06/17 10:42

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Date/Time Sampled: 08/22/17 09:00

Laboratory Sample ID: 7H23150-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0021	0.0021	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
o-Xylene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
m,p-Xylene	<0.0052	0.0052	mg/kg dry	08/25/17 21:20	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	83 %	70-130		08/25/17 21:20	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	120 %	70-130		08/25/17 21:20	EPA 8260B	mtc
Surrogate: Fluorobenzene	103 %	70-130		08/25/17 21:20	EPA 8260B	mtc

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Project: PAGNOTTI
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Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	70.4	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.35	2.35	mg/kg dry	09/03/17 22:13	EPA 6010B/2.0	sr	
Arsenic	147	4.69	mg/kg dry	09/03/17 22:13	EPA 6010B/2.0	sr	
Barium	186	5.87	mg/kg dry	09/03/17 22:11	EPA 6010B/2.0	sr	
Cadmium	4.44	2.35	mg/kg dry	09/03/17 22:13	EPA 6010B/2.0	sr	
Chromium	8.04	2.93	mg/kg dry	09/03/17 22:13	EPA 6010B/2.0	sr	
Mercury	2.27	0.391	mg/kg dry	08/28/17 15:46	EPA 7471B	jks	Q
Lead	127	4.69	mg/kg dry	09/03/17 22:13	EPA 6010B/2.0	sr	
Selenium	33.7	11.7	mg/kg dry	09/03/17 22:13	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.027	0.027	mg/kg dry	09/01/17 00:22	EPA 8082	rsr	D
PCB-1221	<0.027	0.027	mg/kg dry	09/01/17 00:22	EPA 8082	rsr	

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Project Number: [none]
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Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.027	0.027	mg/kg dry	09/01/17 00:22	EPA 8082	rsr	
PCB-1242	<0.027	0.027	mg/kg dry	09/01/17 00:22	EPA 8082	rsr	
PCB-1248	<0.027	0.027	mg/kg dry	09/01/17 00:22	EPA 8082	rsr	
PCB-1254	<0.027	0.027	mg/kg dry	09/01/17 00:22	EPA 8082	rsr	
PCB-1260	<0.027	0.027	mg/kg dry	09/01/17 00:22	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	109 %	11-140		09/01/17 00:22	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	104 %	24.4-140		09/01/17 00:22	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Pyridine	<0.938	0.938	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Benzidine	<2.35	2.35	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Acenaphthene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Acenaphthylene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Anthracene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Benzoic acid	<4.69	4.69	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Benzo (a) anthracene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Benzo (a) pyrene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Benzyl alcohol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
4-Chloroaniline	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2-Chloronaphthalene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
2-Chlorophenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Chrysene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Dibenzofuran	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F

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Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Diethyl phthalate	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Dimethyl phthalate	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<2.35	2.35	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2,4-Dinitrophenol	<2.35	2.35	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Aniline	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Naphthalene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Acetophenone	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	

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Reported:
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Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Fluoranthene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Fluorene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Hexachlorobenzene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Hexachlorobutadiene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Hexachloroethane	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Isophorone	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2-Methylnaphthalene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2-Methylphenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2-Nitroaniline	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
3-Nitroaniline	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	H
4-Nitroaniline	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Nitrobenzene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2-Nitrophenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
4-Nitrophenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	

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Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.35	2.35	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Phenanthrene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Phenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
Pyrene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.469	0.469	mg/kg dry	08/24/17 23:05	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	109 %	10-169		08/24/17 23:05	EPA 8270D	cdb	
Surrogate: Phenol-d6	104 %	10-166		08/24/17 23:05	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	117 %	18.8-170		08/24/17 23:05	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	122 %	35.1-154		08/24/17 23:05	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	97 %	20-158		08/24/17 23:05	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	121 %	52.1-160		08/24/17 23:05	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Benzene	<0.0021	0.0021	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Toluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Ethylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc

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NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Naphthalene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Acrylonitrile	<0.0105	0.0105	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Bromobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Bromochloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Bromodichloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Bromoform	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Bromomethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
sec-Butylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
tert-Butylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
n-Butylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Carbon disulfide	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Chlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Chloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Chloroform	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Chloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
4-Chlorotoluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Dibromochloromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0021	0.0021	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Dibromomethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2-Dichloroethane	<0.0021	0.0021	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,1-Dichloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,1-Dichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
2,2-Dichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,3-Dichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2-Dichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc

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Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,1-Dichloropropene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Hexachlorobutadiene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
p-Isopropyltoluene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Methylene chloride	<0.0210	0.0210	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
n-Propylbenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Styrene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Tetrachloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Trichloroethene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
Trichlorofluoromethane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

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Client Sample ID: SB-007B 22-22.5'

Date/Time Sampled: 08/22/17 09:05

Laboratory Sample ID: 7H23150-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0021	0.0021	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc	
o-Xylene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc	
m,p-Xylene	<0.0052	0.0052	mg/kg dry	08/25/17 21:58	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	56 %	70-130		08/25/17 21:58	EPA 8260B	mtc	P
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		08/25/17 21:58	EPA 8260B	mtc	
Surrogate: Fluorobenzene	107 %	70-130		08/25/17 21:58	EPA 8260B	mtc	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	77.2	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.28	2.28	mg/kg dry	09/03/17 22:19	EPA 6010B/2.0	sr	
Arsenic	176	4.57	mg/kg dry	09/03/17 22:20	EPA 6010B/2.0	sr	
Barium	167	5.71	mg/kg dry	09/03/17 22:18	EPA 6010B/2.0	sr	
Cadmium	5.37	2.28	mg/kg dry	09/03/17 22:20	EPA 6010B/2.0	sr	
Chromium	5.57	2.85	mg/kg dry	09/03/17 22:20	EPA 6010B/2.0	sr	
Mercury	1.14	0.241	mg/kg dry	08/28/17 15:48	EPA 7471B	jks	Q
Lead	123	4.57	mg/kg dry	09/03/17 22:20	EPA 6010B/2.0	sr	
Selenium	32.1	11.4	mg/kg dry	09/03/17 22:20	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.012	0.012	mg/kg dry	09/01/17 00:54	EPA 8082	rsr	D
PCB-1221	<0.012	0.012	mg/kg dry	09/01/17 00:54	EPA 8082	rsr	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.012	0.012	mg/kg dry	09/01/17 00:54	EPA 8082	rsr	
PCB-1242	<0.012	0.012	mg/kg dry	09/01/17 00:54	EPA 8082	rsr	
PCB-1248	<0.012	0.012	mg/kg dry	09/01/17 00:54	EPA 8082	rsr	
PCB-1254	<0.012	0.012	mg/kg dry	09/01/17 00:54	EPA 8082	rsr	
PCB-1260	<0.012	0.012	mg/kg dry	09/01/17 00:54	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	108 %	11-140		09/01/17 00:54	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	97.4 %	24.4-140		09/01/17 00:54	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pyridine	<0.853	0.853	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Benzidine	<2.13	2.13	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Diphenylamine	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Acenaphthene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Acenaphthylene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Anthracene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Benzoic acid	<4.27	4.27	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Benzo (a) anthracene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Benzo (a) pyrene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Benzyl alcohol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
4-Chloroaniline	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2-Chloronaphthalene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
2-Chlorophenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Chrysene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Dibenzofuran	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Diethyl phthalate	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Dimethyl phthalate	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<2.13	2.13	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2,4-Dinitrophenol	<2.13	2.13	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Aniline	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Naphthalene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Acetophenone	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Fluoranthene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Fluorene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Hexachlorobenzene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Hexachlorobutadiene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Hexachloroethane	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Isophorone	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2-Methylnaphthalene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2-Methylphenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2-Nitroaniline	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
3-Nitroaniline	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	H
4-Nitroaniline	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Nitrobenzene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2-Nitrophenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
4-Nitrophenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	

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Pennssdale, PA 17756
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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.13	2.13	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Phenanthrene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Phenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
Pyrene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.427	0.427	mg/kg dry	08/24/17 23:32	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	114 %	10-169		08/24/17 23:32	EPA 8270D	cdb	
Surrogate: Phenol-d6	110 %	10-166		08/24/17 23:32	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	113 %	18.8-170		08/24/17 23:32	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	130 %	35.1-154		08/24/17 23:32	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	103 %	20-158		08/24/17 23:32	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	119 %	52.1-160		08/24/17 23:32	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Benzene	<0.0020	0.0020	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Toluene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Ethylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Naphthalene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Acrylonitrile	<0.0099	0.0099	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Bromobenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Bromochloromethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Bromodichloromethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Bromoform	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Bromomethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
sec-Butylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
tert-Butylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
n-Butylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Carbon disulfide	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Chlorobenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Chloroethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Chloroform	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Chloromethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
4-Chlorotoluene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc

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PaDEP: PA 41-04684



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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Dibromochloromethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0020	0.0020	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Dibromomethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2-Dichloroethane	<0.0020	0.0020	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,1-Dichloroethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,1-Dichloroethene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
2,2-Dichloropropane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,3-Dichloropropane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2-Dichloropropane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,1-Dichloropropene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Hexachlorobutadiene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
p-Isopropyltoluene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Methylene chloride	<0.0197	0.0197	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
n-Propylbenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Styrene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Tetrachloroethene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Trichloroethene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Trichlorofluoromethane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-008 8-8.5'

Date/Time Sampled: 08/22/17 10:05

Laboratory Sample ID: 7H23150-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0020	0.0020	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
o-Xylene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
m,p-Xylene	<0.0049	0.0049	mg/kg dry	08/25/17 22:35	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	88 %	70-130		08/25/17 22:35	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		08/25/17 22:35	EPA 8260B	mtc
Surrogate: Fluorobenzene	105 %	70-130		08/25/17 22:35	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-009 6-6.5'

Date/Time Sampled: 08/22/17 11:25

Laboratory Sample ID: 7H23150-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	79.9	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.07	2.07	mg/kg dry	09/01/17 13:52	EPA 6010B/2.0	sr	
Arsenic	8.33	4.14	mg/kg dry	09/01/17 13:53	EPA 6010B/2.0	sr	
Barium	86.0	5.18	mg/kg dry	09/01/17 13:51	EPA 6010B/2.0	sr	L
Cadmium	<2.07	2.07	mg/kg dry	09/01/17 13:53	EPA 6010B/2.0	sr	
Chromium	4.24	2.59	mg/kg dry	09/01/17 13:53	EPA 6010B/2.0	sr	
Mercury	0.0658	0.0297	mg/kg dry	08/28/17 13:56	EPA 7471B	jks	
Lead	13.2	4.14	mg/kg dry	09/01/17 13:53	EPA 6010B/2.0	sr	
Selenium	<10.4	10.4	mg/kg dry	09/01/17 13:53	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.024	0.024	mg/kg dry	09/01/17 01:26	EPA 8082	rsr	D
PCB-1221	<0.024	0.024	mg/kg dry	09/01/17 01:26	EPA 8082	rsr	

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State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-009 6-6.5'

Date/Time Sampled: 08/22/17 11:25

Laboratory Sample ID: 7H23150-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.024	0.024	mg/kg dry	09/01/17 01:26	EPA 8082	rsr	
PCB-1242	<0.024	0.024	mg/kg dry	09/01/17 01:26	EPA 8082	rsr	
PCB-1248	<0.024	0.024	mg/kg dry	09/01/17 01:26	EPA 8082	rsr	
PCB-1254	<0.024	0.024	mg/kg dry	09/01/17 01:26	EPA 8082	rsr	
PCB-1260	<0.024	0.024	mg/kg dry	09/01/17 01:26	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	111 %	11-140		09/01/17 01:26	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	103 %	24.4-140		09/01/17 01:26	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pyridine	<1.62	1.62	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Diphenylamine	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Benzidine	<4.04	4.04	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Acenaphthene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Acenaphthylene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Anthracene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Benzoic acid	<8.09	8.09	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Benzo (a) anthracene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-009 6-6.5'

Date/Time Sampled: 08/22/17 11:25

Laboratory Sample ID: 7H23150-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Benzo (a) pyrene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Benzyl alcohol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
4-Chloroaniline	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2-Chloronaphthalene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
2-Chlorophenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Chrysene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Dibenzofuran	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F

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Laboratory Sample ID: 7H23150-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Diethyl phthalate	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Dimethyl phthalate	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<4.04	4.04	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2,4-Dinitrophenol	<4.04	4.04	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Aniline	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Naphthalene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Acetophenone	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Fluoranthene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Fluorene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Hexachlorobenzene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Hexachlorobutadiene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Hexachloroethane	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Isophorone	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2-Methylnaphthalene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2-Methylphenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2-Nitroaniline	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
3-Nitroaniline	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	H
4-Nitroaniline	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Nitrobenzene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2-Nitrophenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
4-Nitrophenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<4.04	4.04	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Phenanthrene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Phenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
Pyrene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.809	0.809	mg/kg dry	08/24/17 23:59	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	115 %	10-169		08/24/17 23:59	EPA 8270D	cdb	
Surrogate: Phenol-d6	108 %	10-166		08/24/17 23:59	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	119 %	18.8-170		08/24/17 23:59	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	125 %	35.1-154		08/24/17 23:59	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	103 %	20-158		08/24/17 23:59	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	131 %	52.1-160		08/24/17 23:59	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Benzene	<0.0020	0.0020	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Toluene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Ethylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	

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09/06/17 10:42

Client Sample ID: SB-009 6-6.5'

Date/Time Sampled: 08/22/17 11:25

Laboratory Sample ID: 7H23150-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Naphthalene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Acrylonitrile	<0.0102	0.0102	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Bromobenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Bromochloromethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Bromodichloromethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Bromoform	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Bromomethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
sec-Butylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
tert-Butylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
n-Butylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Carbon disulfide	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Chlorobenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Chloroethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Chloroform	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Chloromethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
4-Chlorotoluene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,2-Dibromo-3-chloropropane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Dibromochloromethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,2-Dibromoethane (EDB)	<0.0020	0.0020	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Dibromomethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
trans-1,4-Dichloro-2-butene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,2-Dichlorobenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,4-Dichlorobenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,3-Dichlorobenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Dichlorodifluoromethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0020	0.0020	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,1-Dichloroethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
cis-1,2-Dichloroethene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,1-Dichloroethene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,2-Dichloropropane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,1-Dichloropropene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Hexachlorobutadiene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
p-Isopropyltoluene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Methylene chloride	<0.0204	0.0204	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
n-Propylbenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Styrene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,1,2,2-Tetrachloroethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,1,1,2-Tetrachloroethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
Tetrachloroethene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,2,3-Trichlorobenzene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
1,1,1-Trichloroethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Trichloroethene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Trichlorofluoromethane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-009 6-6.5'

Date/Time Sampled: 08/22/17 11:25

Laboratory Sample ID: 7H23150-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0020	0.0020	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
o-Xylene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	
m,p-Xylene	<0.0051	0.0051	mg/kg dry	08/25/17 23:49	EPA 8260B	mtc	I
Surrogate: 4-Bromofluorobenzene	91 %	70-130		08/25/17 23:49	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	119 %	70-130		08/25/17 23:49	EPA 8260B	mtc	
Surrogate: Fluorobenzene	102 %	70-130		08/25/17 23:49	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	94.2	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.99	1.99	mg/kg dry	09/01/17 14:07	EPA 6010B/2.0	sr	
Arsenic	10.2	3.98	mg/kg dry	09/01/17 14:07	EPA 6010B/2.0	sr	
Barium	66.3	4.97	mg/kg dry	09/01/17 14:05	EPA 6010B/2.0	sr	L
Cadmium	<1.99	1.99	mg/kg dry	09/01/17 14:07	EPA 6010B/2.0	sr	
Chromium	<2.49	2.49	mg/kg dry	09/01/17 14:07	EPA 6010B/2.0	sr	
Mercury	0.107	0.0315	mg/kg dry	08/28/17 13:58	EPA 7471B	jks	
Lead	12.1	3.98	mg/kg dry	09/01/17 14:07	EPA 6010B/2.0	sr	
Selenium	<9.95	9.95	mg/kg dry	09/01/17 14:07	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.010	0.010	mg/kg dry	09/01/17 01:58	EPA 8082	rsr	D
PCB-1221	<0.010	0.010	mg/kg dry	09/01/17 01:58	EPA 8082	rsr	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
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Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.010	0.010	mg/kg dry	09/01/17 01:58	EPA 8082	rsr	
PCB-1242	<0.010	0.010	mg/kg dry	09/01/17 01:58	EPA 8082	rsr	
PCB-1248	<0.010	0.010	mg/kg dry	09/01/17 01:58	EPA 8082	rsr	
PCB-1254	<0.010	0.010	mg/kg dry	09/01/17 01:58	EPA 8082	rsr	
PCB-1260	<0.010	0.010	mg/kg dry	09/01/17 01:58	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	103 %	11-140		09/01/17 01:58	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	98.9 %	24.4-140		09/01/17 01:58	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<0.699	0.699	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Diphenylamine	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Benzidine	<1.75	1.75	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Acenaphthene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Acenaphthylene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Anthracene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Benzoic acid	<3.49	3.49	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Benzo (a) anthracene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Benzo (a) pyrene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Benzyl alcohol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Butyl benzyl phthalate	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
4-Chloroaniline	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2-Chloronaphthalene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
2-Chlorophenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
4-Chlorophenyl phenyl ether	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Chrysene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Dibenzofuran	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Diethyl phthalate	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Dimethyl phthalate	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.75	1.75	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.75	1.75	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Aniline	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Naphthalene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Acetophenone	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Fluoranthene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Fluorene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Hexachlorobenzene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Hexachlorobutadiene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Hexachloroethane	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Isophorone	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2-Methylnaphthalene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2-Methylphenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2-Nitroaniline	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
3-Nitroaniline	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	H
4-Nitroaniline	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Nitrobenzene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2-Nitrophenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
4-Nitrophenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.75	1.75	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Phenanthrene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Phenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
Pyrene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	
2,4,6-Trichlorophenol	<0.349	0.349	mg/kg dry	08/25/17 00:25	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	116 %	10-169		08/25/17 00:25	EPA 8270D	cdb	
Surrogate: Phenol-d6	105 %	10-166		08/25/17 00:25	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	114 %	18.8-170		08/25/17 00:25	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	131 %	35.1-154		08/25/17 00:25	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	101 %	20-158		08/25/17 00:25	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	124 %	52.1-160		08/25/17 00:25	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc	
Benzene	<0.0024	0.0024	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc	
Toluene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc	
Ethylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc	

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Reported:
09/06/17 10:42

Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Naphthalene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Acrylonitrile	<0.0118	0.0118	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Bromobenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Bromochloromethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Bromodichloromethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Bromoform	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Bromomethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
sec-Butylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
tert-Butylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
n-Butylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Carbon disulfide	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Chlorobenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Chloroethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Chloroform	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Chloromethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
4-Chlorotoluene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Dibromochloromethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0024	0.0024	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Dibromomethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2-Dichloroethane	<0.0024	0.0024	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,1-Dichloroethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,1-Dichloroethene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
2,2-Dichloropropane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,3-Dichloropropane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2-Dichloropropane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
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Reported:
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Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,1-Dichloropropene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Hexachlorobutadiene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
p-Isopropyltoluene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Methylene chloride	<0.0237	0.0237	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
n-Propylbenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Styrene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Tetrachloroethene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Trichloroethene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Trichlorofluoromethane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
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Reported:
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Client Sample ID: SB-010A 7.5-8'

Date/Time Sampled: 08/22/17 13:20

Laboratory Sample ID: 7H23150-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0024	0.0024	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
o-Xylene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
m,p-Xylene	<0.0059	0.0059	mg/kg dry	08/26/17 07:08	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	89 %	70-130		08/26/17 07:08	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	127 %	70-130		08/26/17 07:08	EPA 8260B	mtc
Surrogate: Fluorobenzene	105 %	70-130		08/26/17 07:08	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	77.0	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.35	2.35	mg/kg dry	09/01/17 14:34	EPA 6010B/2.0	sr	
Arsenic	19.3	4.69	mg/kg dry	09/01/17 14:34	EPA 6010B/2.0	sr	
Barium	64.2	5.87	mg/kg dry	09/01/17 14:32	EPA 6010B/2.0	sr	L
Cadmium	<2.35	2.35	mg/kg dry	09/01/17 14:34	EPA 6010B/2.0	sr	
Chromium	7.59	2.93	mg/kg dry	09/01/17 14:34	EPA 6010B/2.0	sr	
Mercury	0.114	0.0362	mg/kg dry	08/28/17 14:17	EPA 7471B	jks	
Lead	24.6	4.69	mg/kg dry	09/01/17 14:34	EPA 6010B/2.0	sr	
Selenium	<11.7	11.7	mg/kg dry	09/01/17 14:34	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.013	0.013	mg/kg dry	09/01/17 02:30	EPA 8082	rsr	D
PCB-1221	<0.013	0.013	mg/kg dry	09/01/17 02:30	EPA 8082	rsr	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.013	0.013	mg/kg dry	09/01/17 02:30	EPA 8082	rsr	
PCB-1242	<0.013	0.013	mg/kg dry	09/01/17 02:30	EPA 8082	rsr	
PCB-1248	<0.013	0.013	mg/kg dry	09/01/17 02:30	EPA 8082	rsr	
PCB-1254	<0.013	0.013	mg/kg dry	09/01/17 02:30	EPA 8082	rsr	
PCB-1260	<0.013	0.013	mg/kg dry	09/01/17 02:30	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	89.2 %	11-140		09/01/17 02:30	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	92.3 %	24.4-140		09/01/17 02:30	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Pyridine	<5.17	5.17	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Benzidine	<12.9	12.9	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Acenaphthene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Acenaphthylene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Anthracene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Benzoic acid	<25.8	25.8	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Benzo (a) anthracene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Benzo (b) fluoranthene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	
Benzo (k) fluoranthene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Benzo (a) pyrene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Benzyl alcohol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Bis(2-chloroethoxy)methane	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Bis(2-chloroethyl)ether	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Bis(2-chloroisopropyl)ether	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Bis(2-ethylhexyl)phthalate	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
4-Bromophenyl phenyl ether	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Butyl benzyl phthalate	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
4-Chloroaniline	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
4-Chloro-3-methylphenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2-Chloronaphthalene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2-Chlorophenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
4-Chlorophenyl phenyl ether	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Chrysene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Dibenz (a,h) anthracene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Dibenzofuran	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Di-n-butyl phthalate	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
1,3-Dichlorobenzene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
1,4-Dichlorobenzene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
3,3'-Dichlorobenzidine	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2,4-Dichlorophenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Diethyl phthalate	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2,4-Dimethylphenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Dimethyl phthalate	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
4,6-Dinitro-2-methylphenol	<12.9	12.9	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2,4-Dinitrophenol	<12.9	12.9	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2,4-Dinitrotoluene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2,6-Dinitrotoluene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Di-n-octyl phthalate	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Aniline	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Naphthalene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
N-Nitrosodimethylamine	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
3 & 4-Methylphenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Acetophenone	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb

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Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

Reported:

09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Fluoranthene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Fluorene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Hexachlorobenzene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Hexachlorobutadiene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Hexachlorocyclopentadiene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Hexachloroethane	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Indeno (1,2,3-cd) pyrene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Isophorone	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2-Methylnaphthalene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2-Methylphenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2-Nitroaniline	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
3-Nitroaniline	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
4-Nitroaniline	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Nitrobenzene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2-Nitrophenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
4-Nitrophenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
N-Nitrosodi-n-propylamine	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb

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Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<12.9	12.9	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Phenanthrene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Phenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Pyrene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
1,2,4-Trichlorobenzene	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2,4,5-Trichlorophenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
2,4,6-Trichlorophenol	<2.58	2.58	mg/kg dry	08/29/17 23:43	EPA 8270D	cdb
Surrogate: 2-Fluorophenol	116 %	10-169		08/29/17 23:43	EPA 8270D	cdb
Surrogate: Phenol-d6	112 %	10-166		08/29/17 23:43	EPA 8270D	cdb
Surrogate: Nitrobenzene-d5	118 %	18.8-170		08/29/17 23:43	EPA 8270D	cdb
Surrogate: 2-Fluorobiphenyl	138 %	35.1-154		08/29/17 23:43	EPA 8270D	cdb
Surrogate: 2,4,6-Tribromophenol	114 %	20-158		08/29/17 23:43	EPA 8270D	cdb
Surrogate: Terphenyl-d14	129 %	52.1-160		08/29/17 23:43	EPA 8270D	cdb

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Benzene	<0.0020	0.0020	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Toluene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Ethylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Naphthalene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Acrylonitrile	<0.0102	0.0102	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Bromobenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Bromochloromethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Bromodichloromethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Bromoform	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Bromomethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
sec-Butylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
tert-Butylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
n-Butylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Carbon disulfide	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Chlorobenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Chloroethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Chloroform	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Chloromethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
4-Chlorotoluene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc

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89 Kristi Road
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Dibromochloromethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0020	0.0020	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Dibromomethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2-Dichloroethane	<0.0020	0.0020	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,1-Dichloroethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,1-Dichloroethene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
2,2-Dichloropropane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,3-Dichloropropane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2-Dichloropropane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
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Reported:
09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,1-Dichloropropene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Hexachlorobutadiene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
p-Isopropyltoluene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Methylene chloride	<0.0205	0.0205	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
n-Propylbenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Styrene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Tetrachloroethene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Trichloroethene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Trichlorofluoromethane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

Reported:

09/06/17 10:42

Client Sample ID: SB-010B 22.5-23'

Date/Time Sampled: 08/22/17 13:25

Laboratory Sample ID: 7H23150-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0020	0.0020	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
o-Xylene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
m,p-Xylene	<0.0051	0.0051	mg/kg dry	08/26/17 07:45	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	84 %	70-130		08/26/17 07:45	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		08/26/17 07:45	EPA 8260B	mtc
Surrogate: Fluorobenzene	103 %	70-130		08/26/17 07:45	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	72.3	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.48	2.48	mg/kg dry	09/01/17 14:47	EPA 6010B/2.0	sr	
Arsenic	91.9	4.96	mg/kg dry	09/01/17 14:48	EPA 6010B/2.0	sr	
Barium	243	6.20	mg/kg dry	09/01/17 14:46	EPA 6010B/2.0	sr	L
Cadmium	2.69	2.48	mg/kg dry	09/01/17 14:48	EPA 6010B/2.0	sr	
Chromium	5.68	3.10	mg/kg dry	09/01/17 14:47	EPA 6010B/2.0	sr	
Mercury	0.336	0.0423	mg/kg dry	08/28/17 14:19	EPA 7471B	jks	
Lead	83.1	4.96	mg/kg dry	09/01/17 14:48	EPA 6010B/2.0	sr	
Selenium	34.0	12.4	mg/kg dry	09/01/17 14:48	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.014	0.014	mg/kg dry	09/01/17 03:02	EPA 8082	rsr	D
PCB-1221	<0.014	0.014	mg/kg dry	09/01/17 03:02	EPA 8082	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.014	0.014	mg/kg dry	09/01/17 03:02	EPA 8082	rsr	
PCB-1242	<0.014	0.014	mg/kg dry	09/01/17 03:02	EPA 8082	rsr	
PCB-1248	<0.014	0.014	mg/kg dry	09/01/17 03:02	EPA 8082	rsr	
PCB-1254	<0.014	0.014	mg/kg dry	09/01/17 03:02	EPA 8082	rsr	
PCB-1260	<0.014	0.014	mg/kg dry	09/01/17 03:02	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	107 %	11-140		09/01/17 03:02	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	99.8 %	24.4-140		09/01/17 03:02	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Pyridine	<2.58	2.58	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Benzidine	<6.46	6.46	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Acenaphthene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Acenaphthylene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Anthracene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Benzoic acid	<12.9	12.9	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Benzo (a) anthracene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Benzo (b) fluoranthene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	
Benzo (k) fluoranthene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Benzo (a) pyrene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Benzyl alcohol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Bis(2-chloroethoxy)methane	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Bis(2-chloroethyl)ether	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Bis(2-chloroisopropyl)ether	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Bis(2-ethylhexyl)phthalate	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
4-Bromophenyl phenyl ether	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Butyl benzyl phthalate	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
4-Chloroaniline	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
4-Chloro-3-methylphenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2-Chloronaphthalene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2-Chlorophenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
4-Chlorophenyl phenyl ether	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Chrysene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Dibenz (a,h) anthracene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Dibenzofuran	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Di-n-butyl phthalate	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb

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(814) 946-4306
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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
1,3-Dichlorobenzene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
1,4-Dichlorobenzene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
3,3'-Dichlorobenzidine	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2,4-Dichlorophenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Diethyl phthalate	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2,4-Dimethylphenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Dimethyl phthalate	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
4,6-Dinitro-2-methylphenol	<6.46	6.46	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2,4-Dinitrophenol	<6.46	6.46	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2,4-Dinitrotoluene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2,6-Dinitrotoluene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Di-n-octyl phthalate	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Aniline	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Naphthalene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
N-Nitrosodimethylamine	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Acetophenone	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
3 & 4-Methylphenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Fluoranthene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Fluorene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Hexachlorobenzene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Hexachlorobutadiene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Hexachlorocyclopentadiene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Hexachloroethane	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Indeno (1,2,3-cd) pyrene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Isophorone	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2-Methylnaphthalene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2-Methylphenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2-Nitroaniline	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
3-Nitroaniline	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
4-Nitroaniline	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Nitrobenzene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2-Nitrophenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
4-Nitrophenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
N-Nitrosodi-n-propylamine	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<6.46	6.46	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Phenanthrene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Phenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Pyrene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
1,2,4-Trichlorobenzene	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2,4,5-Trichlorophenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
2,4,6-Trichlorophenol	<1.29	1.29	mg/kg dry	08/30/17 00:10	EPA 8270D	cdb
Surrogate: 2-Fluorophenol	119 %	10-169		08/30/17 00:10	EPA 8270D	cdb
Surrogate: Phenol-d6	116 %	10-166		08/30/17 00:10	EPA 8270D	cdb
Surrogate: Nitrobenzene-d5	124 %	18.8-170		08/30/17 00:10	EPA 8270D	cdb
Surrogate: 2-Fluorobiphenyl	143 %	35.1-154		08/30/17 00:10	EPA 8270D	cdb
Surrogate: 2,4,6-Tribromophenol	119 %	20-158		08/30/17 00:10	EPA 8270D	cdb
Surrogate: Terphenyl-d14	132 %	52.1-160		08/30/17 00:10	EPA 8270D	cdb

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Benzene	<0.0022	0.0022	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Toluene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Ethylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Naphthalene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Acrylonitrile	<0.0111	0.0111	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Bromobenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Bromochloromethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Bromodichloromethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Bromoform	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Bromomethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
sec-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
tert-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
n-Butylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Carbon disulfide	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Chlorobenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Chloroethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Chloroform	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Chloromethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
4-Chlorotoluene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Dibromochloromethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0022	0.0022	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Dibromomethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2-Dichloroethane	<0.0022	0.0022	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,1-Dichloroethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,1-Dichloroethene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
2,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,3-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,1-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Hexachlorobutadiene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
p-Isopropyltoluene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Methylene chloride	<0.0221	0.0221	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
n-Propylbenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Styrene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Tetrachloroethene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Trichloroethene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Trichlorofluoromethane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-011 18.5-19'

Date/Time Sampled: 08/22/17 14:35

Laboratory Sample ID: 7H23150-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0022	0.0022	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
o-Xylene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
m,p-Xylene	<0.0055	0.0055	mg/kg dry	08/26/17 08:22	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	86 %	70-130		08/26/17 08:22	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	118 %	70-130		08/26/17 08:22	EPA 8260B	mtc
Surrogate: Fluorobenzene	104 %	70-130		08/26/17 08:22	EPA 8260B	mtc

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012A 6-6.5'

Date/Time Sampled: 08/23/17 09:20

Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	84.6	0.100	%	08/24/17 20:00	SM 2540 G-97	pra

Metals by EPA 6000/7000 Series Methods

Silver	<2.25	2.25	mg/kg dry	09/03/17 22:27	EPA 6010B/2.0	sr
Arsenic	17.5	4.50	mg/kg dry	09/03/17 22:27	EPA 6010B/2.0	sr
Barium	51.3	5.63	mg/kg dry	09/03/17 22:25	EPA 6010B/2.0	sr
Cadmium	<2.25	2.25	mg/kg dry	09/03/17 22:27	EPA 6010B/2.0	sr
Chromium	5.22	2.81	mg/kg dry	09/03/17 22:27	EPA 6010B/2.0	sr
Mercury	0.139	0.0341	mg/kg dry	08/28/17 14:21	EPA 7471B	jks
Lead	32.1	4.50	mg/kg dry	09/03/17 22:27	EPA 6010B/2.0	sr
Selenium	<11.3	11.3	mg/kg dry	09/03/17 22:27	EPA 6010B/2.0	sr

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.012	0.012	mg/kg dry	09/01/17 03:34	EPA 8082	rsr	D
PCB-1221	<0.012	0.012	mg/kg dry	09/01/17 03:34	EPA 8082	rsr	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.012	0.012	mg/kg dry	09/01/17 03:34	EPA 8082	rsr	
PCB-1242	<0.012	0.012	mg/kg dry	09/01/17 03:34	EPA 8082	rsr	
PCB-1248	<0.012	0.012	mg/kg dry	09/01/17 03:34	EPA 8082	rsr	
PCB-1254	<0.012	0.012	mg/kg dry	09/01/17 03:34	EPA 8082	rsr	
PCB-1260	<0.012	0.012	mg/kg dry	09/01/17 03:34	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	106 %	11-140		09/01/17 03:34	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	98.7 %	24.4-140		09/01/17 03:34	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Pyridine	<4.25	4.25	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Benzidine	<10.6	10.6	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Acenaphthene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Acenaphthylene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Anthracene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Benzoic acid	<21.3	21.3	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Benzo (a) anthracene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Benzo (b) fluoranthene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	
Benzo (k) fluoranthene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012A 6-6.5'

Date/Time Sampled: 08/23/17 09:20

Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Benzo (a) pyrene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Benzyl alcohol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Bis(2-chloroethoxy)methane	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Bis(2-chloroethyl)ether	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Bis(2-chloroisopropyl)ether	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Bis(2-ethylhexyl)phthalate	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
4-Bromophenyl phenyl ether	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Butyl benzyl phthalate	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
4-Chloroaniline	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
4-Chloro-3-methylphenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2-Chloronaphthalene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2-Chlorophenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
4-Chlorophenyl phenyl ether	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Chrysene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Dibenz (a,h) anthracene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Dibenzofuran	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Di-n-butyl phthalate	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

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Client Sample ID: SB-012A 6-6.5'

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Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
1,3-Dichlorobenzene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
1,4-Dichlorobenzene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
3,3'-Dichlorobenzidine	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2,4-Dichlorophenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Diethyl phthalate	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2,4-Dimethylphenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Dimethyl phthalate	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
4,6-Dinitro-2-methylphenol	<10.6	10.6	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2,4-Dinitrophenol	<10.6	10.6	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2,4-Dinitrotoluene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2,6-Dinitrotoluene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Di-n-octyl phthalate	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Aniline	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Naphthalene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
N-Nitrosodimethylamine	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Acetophenone	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
3 & 4-Methylphenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

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Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Fluoranthene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Fluorene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Hexachlorobenzene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Hexachlorobutadiene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Hexachlorocyclopentadiene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Hexachloroethane	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Indeno (1,2,3-cd) pyrene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Isophorone	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2-Methylnaphthalene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2-Methylphenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2-Nitroaniline	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
3-Nitroaniline	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
4-Nitroaniline	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Nitrobenzene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2-Nitrophenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
4-Nitrophenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
N-Nitrosodi-n-propylamine	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb

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Project: PAGNOTTI
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Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<10.6	10.6	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Phenanthrene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Phenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Pyrene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
1,2,4-Trichlorobenzene	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2,4,5-Trichlorophenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
2,4,6-Trichlorophenol	<2.13	2.13	mg/kg dry	08/30/17 00:37	EPA 8270D	cdb
Surrogate: 2-Fluorophenol	111 %	10-169		08/30/17 00:37	EPA 8270D	cdb
Surrogate: Phenol-d6	110 %	10-166		08/30/17 00:37	EPA 8270D	cdb
Surrogate: Nitrobenzene-d5	114 %	18.8-170		08/30/17 00:37	EPA 8270D	cdb
Surrogate: 2-Fluorobiphenyl	134 %	35.1-154		08/30/17 00:37	EPA 8270D	cdb
Surrogate: 2,4,6-Tribromophenol	99 %	20-158		08/30/17 00:37	EPA 8270D	cdb
Surrogate: Terphenyl-d14	136 %	52.1-160		08/30/17 00:37	EPA 8270D	cdb

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Benzene	<0.0020	0.0020	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Toluene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Ethylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012A 6-6.5'

Date/Time Sampled: 08/23/17 09:20

Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Naphthalene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Acrylonitrile	<0.0099	0.0099	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Bromobenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Bromochloromethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Bromodichloromethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Bromoform	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Bromomethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
sec-Butylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
tert-Butylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
n-Butylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Carbon disulfide	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Chlorobenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Chloroethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Chloroform	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Chloromethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
4-Chlorotoluene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012A 6-6.5'

Date/Time Sampled: 08/23/17 09:20

Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Dibromochloromethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0020	0.0020	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Dibromomethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2-Dichloroethane	<0.0020	0.0020	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,1-Dichloroethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,1-Dichloroethene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
2,2-Dichloropropane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,3-Dichloropropane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2-Dichloropropane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012A 6-6.5'

Date/Time Sampled: 08/23/17 09:20

Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,1-Dichloropropene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Hexachlorobutadiene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
p-Isopropyltoluene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Methylene chloride	<0.0199	0.0199	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
n-Propylbenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Styrene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Tetrachloroethene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Trichloroethene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Trichlorofluoromethane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012A 6-6.5'

Date/Time Sampled: 08/23/17 09:20

Laboratory Sample ID: 7H23150-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0020	0.0020	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
o-Xylene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
m,p-Xylene	<0.0050	0.0050	mg/kg dry	08/26/17 08:59	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	88 %	70-130		08/26/17 08:59	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		08/26/17 08:59	EPA 8260B	mtc
Surrogate: Fluorobenzene	101 %	70-130		08/26/17 08:59	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	89.2	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.03	2.03	mg/kg dry	09/01/17 15:17	EPA 6010B/2.0	sr	
Arsenic	<4.06	4.06	mg/kg dry	09/01/17 15:17	EPA 6010B/2.0	sr	
Barium	61.9	5.08	mg/kg dry	09/01/17 15:15	EPA 6010B/2.0	sr	L
Cadmium	<2.03	2.03	mg/kg dry	09/01/17 15:17	EPA 6010B/2.0	sr	
Chromium	5.01	2.54	mg/kg dry	09/01/17 15:17	EPA 6010B/2.0	sr	
Mercury	<0.0285	0.0285	mg/kg dry	08/28/17 14:22	EPA 7471B	jks	
Lead	12.5	4.06	mg/kg dry	09/01/17 15:17	EPA 6010B/2.0	sr	
Selenium	<10.2	10.2	mg/kg dry	09/01/17 15:17	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/01/17 05:10	EPA 8082	rsr	D
PCB-1221	<0.011	0.011	mg/kg dry	09/01/17 05:10	EPA 8082	rsr	

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Project Number: [none]
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Number of Containers: 76

Reported:
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Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/01/17 05:10	EPA 8082	rsr	
PCB-1242	<0.011	0.011	mg/kg dry	09/01/17 05:10	EPA 8082	rsr	
PCB-1248	<0.011	0.011	mg/kg dry	09/01/17 05:10	EPA 8082	rsr	
PCB-1254	<0.011	0.011	mg/kg dry	09/01/17 05:10	EPA 8082	rsr	
PCB-1260	<0.011	0.011	mg/kg dry	09/01/17 05:10	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	112 %	11-140		09/01/17 05:10	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	104 %	24.4-140		09/01/17 05:10	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<1.85	1.85	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Pyridine	<0.741	0.741	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Diphenylamine	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Acenaphthene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Acenaphthylene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Anthracene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Benzoic acid	<3.71	3.71	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Benzo (a) anthracene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	
Benzo (k) fluoranthene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Benzo (a) pyrene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Benzyl alcohol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Bis(2-chloroethoxy)methane	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Bis(2-chloroethyl)ether	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Bis(2-chloroisopropyl)ether	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Bis(2-ethylhexyl)phthalate	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
4-Bromophenyl phenyl ether	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Butyl benzyl phthalate	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
4-Chloroaniline	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
4-Chloro-3-methylphenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2-Chloronaphthalene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2-Chlorophenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
4-Chlorophenyl phenyl ether	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Chrysene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Dibenz (a,h) anthracene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Dibenzofuran	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Di-n-butyl phthalate	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
1,3-Dichlorobenzene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
1,4-Dichlorobenzene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
3,3'-Dichlorobenzidine	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2,4-Dichlorophenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Diethyl phthalate	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2,4-Dimethylphenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Dimethyl phthalate	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
4,6-Dinitro-2-methylphenol	<1.85	1.85	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2,4-Dinitrophenol	<1.85	1.85	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2,4-Dinitrotoluene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2,6-Dinitrotoluene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Di-n-octyl phthalate	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Aniline	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Naphthalene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
N-Nitrosodimethylamine	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
3 & 4-Methylphenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Acetophenone	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Fluoranthene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Fluorene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Hexachlorobenzene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Hexachlorobutadiene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Hexachlorocyclopentadiene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Hexachloroethane	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Indeno (1,2,3-cd) pyrene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Isophorone	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2-Methylnaphthalene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2-Methylphenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2-Nitroaniline	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
3-Nitroaniline	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
4-Nitroaniline	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Nitrobenzene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2-Nitrophenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
4-Nitrophenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
N-Nitrosodi-n-propylamine	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.85	1.85	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Phenanthrene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Phenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Pyrene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
1,2,4-Trichlorobenzene	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2,4,5-Trichlorophenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
2,4,6-Trichlorophenol	<0.371	0.371	mg/kg dry	08/30/17 01:03	EPA 8270D	cdb
Surrogate: 2-Fluorophenol	107 %	10-169		08/30/17 01:03	EPA 8270D	cdb
Surrogate: Phenol-d6	102 %	10-166		08/30/17 01:03	EPA 8270D	cdb
Surrogate: Nitrobenzene-d5	110 %	18.8-170		08/30/17 01:03	EPA 8270D	cdb
Surrogate: 2-Fluorobiphenyl	130 %	35.1-154		08/30/17 01:03	EPA 8270D	cdb
Surrogate: 2,4,6-Tribromophenol	107 %	20-158		08/30/17 01:03	EPA 8270D	cdb
Surrogate: Terphenyl-d14	120 %	52.1-160		08/30/17 01:03	EPA 8270D	cdb

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Benzene	<0.0012	0.0012	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Toluene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Ethylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Naphthalene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Acrylonitrile	<0.0062	0.0062	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Bromobenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Bromochloromethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Bromodichloromethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Bromoform	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Bromomethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
sec-Butylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
tert-Butylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
n-Butylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Carbon disulfide	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Chlorobenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Chloroethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Chloroform	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Chloromethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
4-Chlorotoluene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-012B 22.5-23'

Date/Time Sampled: 08/23/17 09:25

Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Dibromochloromethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0012	0.0012	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Dibromomethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2-Dichloroethane	<0.0012	0.0012	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,1-Dichloroethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,1-Dichloroethene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
2,2-Dichloropropane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,3-Dichloropropane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2-Dichloropropane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc

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Laboratory Sample ID: 7H23150-16 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,1-Dichloropropene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Hexachlorobutadiene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
p-Isopropyltoluene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Methylene chloride	<0.0124	0.0124	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
n-Propylbenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Styrene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Tetrachloroethene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Trichloroethene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Trichlorofluoromethane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0012	0.0012	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
o-Xylene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
m,p-Xylene	<0.0031	0.0031	mg/kg dry	08/26/17 09:36	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	104 %	70-130		08/26/17 09:36	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		08/26/17 09:36	EPA 8260B	mtc
Surrogate: Fluorobenzene	103 %	70-130		08/26/17 09:36	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	92.6	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.84	1.84	mg/kg dry	09/01/17 15:31	EPA 6010B/2.0	sr	
Arsenic	7.08	3.69	mg/kg dry	09/01/17 15:31	EPA 6010B/2.0	sr	
Barium	37.8	4.61	mg/kg dry	09/01/17 15:29	EPA 6010B/2.0	sr	L
Cadmium	<1.84	1.84	mg/kg dry	09/01/17 15:31	EPA 6010B/2.0	sr	
Chromium	2.71	2.31	mg/kg dry	09/01/17 15:31	EPA 6010B/2.0	sr	
Mercury	0.0838	0.0320	mg/kg dry	08/28/17 14:24	EPA 7471B	jks	
Lead	11.4	3.69	mg/kg dry	09/01/17 15:31	EPA 6010B/2.0	sr	
Selenium	<9.22	9.22	mg/kg dry	09/01/17 15:31	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.010	0.010	mg/kg dry	09/01/17 05:42	EPA 8082	rsr	D
PCB-1221	<0.010	0.010	mg/kg dry	09/01/17 05:42	EPA 8082	rsr	

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Project Number: [none]
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Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.010	0.010	mg/kg dry	09/01/17 05:42	EPA 8082	rsr	
PCB-1242	<0.010	0.010	mg/kg dry	09/01/17 05:42	EPA 8082	rsr	
PCB-1248	<0.010	0.010	mg/kg dry	09/01/17 05:42	EPA 8082	rsr	
PCB-1254	<0.010	0.010	mg/kg dry	09/01/17 05:42	EPA 8082	rsr	
PCB-1260	<0.010	0.010	mg/kg dry	09/01/17 05:42	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	115 %	11-140		09/01/17 05:42	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	108 %	24.4-140		09/01/17 05:42	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<3.72	3.72	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Benzidine	<9.31	9.31	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Diphenylamine	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Acenaphthene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Acenaphthylene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Anthracene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Benzoic acid	<18.6	18.6	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Benzo (a) anthracene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Benzo (b) fluoranthene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	
Benzo (k) fluoranthene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Benzo (a) pyrene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Benzyl alcohol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Bis(2-chloroethoxy)methane	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Bis(2-chloroethyl)ether	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Bis(2-chloroisopropyl)ether	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Bis(2-ethylhexyl)phthalate	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
4-Bromophenyl phenyl ether	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Butyl benzyl phthalate	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
4-Chloroaniline	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
4-Chloro-3-methylphenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2-Chloronaphthalene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2-Chlorophenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
4-Chlorophenyl phenyl ether	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Chrysene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Dibenz (a,h) anthracene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Dibenzofuran	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Di-n-butyl phthalate	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb

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Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
1,3-Dichlorobenzene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
1,4-Dichlorobenzene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
3,3'-Dichlorobenzidine	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2,4-Dichlorophenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Diethyl phthalate	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2,4-Dimethylphenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Dimethyl phthalate	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
4,6-Dinitro-2-methylphenol	<9.31	9.31	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2,4-Dinitrophenol	<9.31	9.31	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2,4-Dinitrotoluene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2,6-Dinitrotoluene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Di-n-octyl phthalate	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Aniline	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Naphthalene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
N-Nitrosodimethylamine	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Acetophenone	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
3 & 4-Methylphenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Fluoranthene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Fluorene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Hexachlorobenzene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Hexachlorobutadiene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Hexachlorocyclopentadiene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Hexachloroethane	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Indeno (1,2,3-cd) pyrene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Isophorone	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2-Methylnaphthalene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2-Methylphenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2-Nitroaniline	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
3-Nitroaniline	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
4-Nitroaniline	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Nitrobenzene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2-Nitrophenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
4-Nitrophenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
N-Nitrosodi-n-propylamine	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<9.31	9.31	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Phenanthrene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Phenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Pyrene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
1,2,4-Trichlorobenzene	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2,4,5-Trichlorophenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
2,4,6-Trichlorophenol	<1.86	1.86	mg/kg dry	08/30/17 01:30	EPA 8270D	cdb
Surrogate: 2-Fluorophenol	115 %	10-169		08/30/17 01:30	EPA 8270D	cdb
Surrogate: Phenol-d6	114 %	10-166		08/30/17 01:30	EPA 8270D	cdb
Surrogate: Nitrobenzene-d5	117 %	18.8-170		08/30/17 01:30	EPA 8270D	cdb
Surrogate: 2-Fluorobiphenyl	150 %	35.1-154		08/30/17 01:30	EPA 8270D	cdb
Surrogate: 2,4,6-Tribromophenol	112 %	20-158		08/30/17 01:30	EPA 8270D	cdb
Surrogate: Terphenyl-d14	134 %	52.1-160		08/30/17 01:30	EPA 8270D	cdb

Volatile Organic Compounds by EPA Method 8260B

Dichlorodifluoromethane	<0.0047	0.0047	mg/kg dry	08/31/17 19:03	EPA 8260B	mtc
2,2-Dichloropropane	<0.0047	0.0047	mg/kg dry	08/31/17 19:03	EPA 8260B	mtc
1,3,5-Trimethylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc
Benzene	<0.165	0.165	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Toluene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Ethylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Isopropylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	E
Naphthalene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Acrylonitrile	<0.825	0.825	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Bromobenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Bromochloromethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Bromodichloromethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Bromoform	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Bromomethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
sec-Butylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
tert-Butylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
n-Butylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Carbon disulfide	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Chlorobenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Chloroethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Chloroform	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Chloromethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	F
4-Chlorotoluene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
2-Chlorotoluene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	E
Dibromochloromethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.165	0.165	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	E
Dibromomethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2-Dichloroethane	<0.165	0.165	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,1-Dichloroethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,1-Dichloroethene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	D
1,3-Dichloropropane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2-Dichloropropane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	

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Project Number: [none]
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Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
p-Isopropyltoluene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Methylene chloride	<1.65	1.65	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	D
n-Propylbenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Styrene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Tetrachloroethene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Trichloroethene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Trichlorofluoromethane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-013 15-15.5'

Date/Time Sampled: 08/23/17 10:25

Laboratory Sample ID: 7H23150-17 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.165	0.165	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	D
o-Xylene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
m,p-Xylene	<0.413	0.413	mg/kg dry	08/28/17 18:39	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98 %	70-130		08/28/17 18:39	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		08/28/17 18:39	EPA 8260B	mtc	
Surrogate: Fluorobenzene	108 %	70-130		08/28/17 18:39	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-014 4.5-5'

Date/Time Sampled: 08/23/17 11:45

Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	36.9	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<4.84	4.84	mg/kg dry	09/01/17 15:57	EPA 6010B/2.0	sr	
Arsenic	53.4	9.67	mg/kg dry	09/01/17 15:58	EPA 6010B/2.0	sr	
Barium	534	12.1	mg/kg dry	09/01/17 15:56	EPA 6010B/2.0	sr	L
Cadmium	<4.84	4.84	mg/kg dry	09/01/17 15:58	EPA 6010B/2.0	sr	
Chromium	71.8	6.04	mg/kg dry	09/01/17 15:58	EPA 6010B/2.0	sr	
Mercury	1.18	0.0777	mg/kg dry	08/28/17 14:26	EPA 7471B	jks	
Lead	59.8	9.67	mg/kg dry	09/01/17 15:58	EPA 6010B/2.0	sr	
Selenium	<24.2	24.2	mg/kg dry	09/01/17 15:58	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.026	0.026	mg/kg dry	09/01/17 06:15	EPA 8082	rsr	D
PCB-1221	<0.026	0.026	mg/kg dry	09/01/17 06:15	EPA 8082	rsr	

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Reported:
09/06/17 10:42

Client Sample ID: SB-014 4.5-5'

Date/Time Sampled: 08/23/17 11:45

Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.026	0.026	mg/kg dry	09/01/17 06:15	EPA 8082	rsr	
PCB-1242	<0.026	0.026	mg/kg dry	09/01/17 06:15	EPA 8082	rsr	
PCB-1248	<0.026	0.026	mg/kg dry	09/01/17 06:15	EPA 8082	rsr	
PCB-1254	<0.026	0.026	mg/kg dry	09/01/17 06:15	EPA 8082	rsr	
PCB-1260	<0.026	0.026	mg/kg dry	09/01/17 06:15	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	114 %	11-140		09/01/17 06:15	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	108 %	24.4-140		09/01/17 06:15	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Pyridine	<1.81	1.81	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Benzidine	<4.52	4.52	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Acenaphthene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Acenaphthylene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Anthracene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Benzoic acid	<9.04	9.04	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Benzo (a) anthracene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-014 4.5-5'

Date/Time Sampled: 08/23/17 11:45

Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Benzo (a) pyrene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Benzyl alcohol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
4-Chloroaniline	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2-Chloronaphthalene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
2-Chlorophenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Chrysene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Dibenzofuran	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
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09/06/17 10:42

Client Sample ID: SB-014 4.5-5'

Date/Time Sampled: 08/23/17 11:45

Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Diethyl phthalate	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Dimethyl phthalate	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<4.52	4.52	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2,4-Dinitrophenol	<4.52	4.52	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Aniline	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Naphthalene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Acetophenone	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	

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Project Number: [none]

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Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Fluoranthene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Fluorene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Hexachlorobenzene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Hexachlorobutadiene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Hexachloroethane	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Isophorone	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2-Methylnaphthalene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2-Methylphenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2-Nitroaniline	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
3-Nitroaniline	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
4-Nitroaniline	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Nitrobenzene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2-Nitrophenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
4-Nitrophenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 76

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Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<4.52	4.52	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Phenanthrene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Phenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
Pyrene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.904	0.904	mg/kg dry	08/30/17 04:10	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	116 %	10-169		08/30/17 04:10	EPA 8270D	cdb	
Surrogate: Phenol-d6	119 %	10-166		08/30/17 04:10	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	129 %	18.8-170		08/30/17 04:10	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	151 %	35.1-154		08/30/17 04:10	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	124 %	20-158		08/30/17 04:10	EPA 8270D	cdb	F
Surrogate: Terphenyl-d14	126 %	52.1-160		08/30/17 04:10	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc	
Benzene	<0.0058	0.0058	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc	
Toluene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc	
Ethylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

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09/06/17 10:42

Client Sample ID: SB-014 4.5-5'

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Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Naphthalene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Acrylonitrile	<0.0290	0.0290	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Bromobenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Bromochloromethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Bromodichloromethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Bromoform	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Bromomethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
sec-Butylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
tert-Butylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
n-Butylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Carbon disulfide	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Chlorobenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Chloroethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Chloroform	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Chloromethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
4-Chlorotoluene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc

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Project Number: [none]
Collector: CLIENT
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Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Dibromochloromethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0058	0.0058	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Dibromomethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2-Dichloroethane	<0.0058	0.0058	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,1-Dichloroethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,1-Dichloroethene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
2,2-Dichloropropane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,3-Dichloropropane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2-Dichloropropane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,1-Dichloropropene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Hexachlorobutadiene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
p-Isopropyltoluene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Methylene chloride	<0.0581	0.0581	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
n-Propylbenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Styrene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Tetrachloroethene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Trichloroethene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Trichlorofluoromethane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-014 4.5-5'

Date/Time Sampled: 08/23/17 11:45

Laboratory Sample ID: 7H23150-18 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0058	0.0058	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
o-Xylene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
m,p-Xylene	<0.0145	0.0145	mg/kg dry	08/26/17 10:51	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	96 %	70-130		08/26/17 10:51	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	119 %	70-130		08/26/17 10:51	EPA 8260B	mtc
Surrogate: Fluorobenzene	101 %	70-130		08/26/17 10:51	EPA 8260B	mtc

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	83.8	0.100	%	08/24/17 20:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.23	2.23	mg/kg dry	09/01/17 16:12	EPA 6010B/2.0	sr	
Arsenic	<4.45	4.45	mg/kg dry	09/01/17 16:12	EPA 6010B/2.0	sr	K
Barium	40.6	5.56	mg/kg dry	09/01/17 16:10	EPA 6010B/2.0	sr	K, L
Cadmium	<2.23	2.23	mg/kg dry	09/01/17 16:12	EPA 6010B/2.0	sr	
Chromium	7.56	2.78	mg/kg dry	09/01/17 16:12	EPA 6010B/2.0	sr	
Mercury	0.0540	0.0326	mg/kg dry	08/28/17 14:27	EPA 7471B	jks	
Lead	12.7	4.45	mg/kg dry	09/01/17 16:12	EPA 6010B/2.0	sr	
Selenium	<11.1	11.1	mg/kg dry	09/01/17 16:12	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/01/17 06:47	EPA 8082	rsr	D
PCB-1221	<0.011	0.011	mg/kg dry	09/01/17 06:47	EPA 8082	rsr	

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Project: PAGNOTTI
Project Number: [none]
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Number of Containers: 76
Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/01/17 06:47	EPA 8082	rsr	
PCB-1242	<0.011	0.011	mg/kg dry	09/01/17 06:47	EPA 8082	rsr	
PCB-1248	<0.011	0.011	mg/kg dry	09/01/17 06:47	EPA 8082	rsr	
PCB-1254	<0.011	0.011	mg/kg dry	09/01/17 06:47	EPA 8082	rsr	
PCB-1260	<0.011	0.011	mg/kg dry	09/01/17 06:47	EPA 8082	rsr	D
Surrogate: Tetrachloro-meta-xylene	123 %	11-140		09/01/17 06:47	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	115 %	24.4-140		09/01/17 06:47	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<1.96	1.96	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Diphenylamine	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Pyridine	<0.785	0.785	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Acenaphthene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Acenaphthylene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Anthracene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Benzoic acid	<3.93	3.93	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Benzo (a) anthracene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Benzo (a) pyrene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Benzyl alcohol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
4-Chloroaniline	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2-Chloronaphthalene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
2-Chlorophenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Chrysene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Dibenzofuran	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F

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09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Diethyl phthalate	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Dimethyl phthalate	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.96	1.96	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.96	1.96	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Aniline	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Naphthalene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Acetophenone	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Fluoranthene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Fluorene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Hexachlorobenzene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Hexachlorobutadiene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Hexachloroethane	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Isophorone	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2-Methylnaphthalene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2-Methylphenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2-Nitroaniline	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
3-Nitroaniline	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
4-Nitroaniline	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Nitrobenzene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2-Nitrophenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
4-Nitrophenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.96	1.96	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Phenanthrene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Phenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
Pyrene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.393	0.393	mg/kg dry	08/30/17 04:36	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	126 %	10-169		08/30/17 04:36	EPA 8270D	cdb	
Surrogate: Phenol-d6	126 %	10-166		08/30/17 04:36	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	134 %	18.8-170		08/30/17 04:36	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	149 %	35.1-154		08/30/17 04:36	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	136 %	20-158		08/30/17 04:36	EPA 8270D	cdb	F
Surrogate: Terphenyl-d14	148 %	52.1-160		08/30/17 04:36	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc	
Benzene	<0.0015	0.0015	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc	
Toluene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc	
Ethylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Naphthalene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Acrylonitrile	<0.0073	0.0073	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Bromobenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Bromochloromethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Bromodichloromethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Bromoform	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Bromomethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
sec-Butylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
tert-Butylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
n-Butylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Carbon disulfide	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Chlorobenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Chloroethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Chloroform	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Chloromethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
4-Chlorotoluene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc

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(814) 946-4306
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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Dibromochloromethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0015	0.0015	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Dibromomethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2-Dichloroethane	<0.0015	0.0015	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,1-Dichloroethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,1-Dichloroethene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
2,2-Dichloropropane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,3-Dichloropropane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2-Dichloropropane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc

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Borton-Lawson
613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,1-Dichloropropene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Hexachlorobutadiene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
p-Isopropyltoluene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Methylene chloride	<0.0145	0.0145	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
n-Propylbenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Styrene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Tetrachloroethene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Trichloroethene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Trichlorofluoromethane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Client Sample ID: SB-015 5.5-6'

Date/Time Sampled: 08/23/17 15:20

Laboratory Sample ID: 7H23150-19 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0015	0.0015	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
o-Xylene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
m,p-Xylene	<0.0036	0.0036	mg/kg dry	08/26/17 11:28	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	90 %	70-130		08/26/17 11:28	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	123 %	70-130		08/26/17 11:28	EPA 8260B	mtc
Surrogate: Fluorobenzene	103 %	70-130		08/26/17 11:28	EPA 8260B	mtc

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Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/06/17 10:42

Project Manager: Dan Nealon

Number of Containers: 76

Notes

- D A Continuing Calibration Verification (CCV) analyzed with the analytical batch recovered above the acceptance range for the noted analyte.
- E A Continuing Calibration Verification (CCV) analyzed with the analytical batch recovered below the acceptance range for the noted analyte.
- F The Laboratory Control Sample (LCS) analyzed with this preparation batch recovered above the acceptance range for the noted analyte.
- G The Laboratory Control Sample (LCS) analyzed with this preparation batch recovered below the acceptance range for the noted analyte.
- H The spike recovery was above the acceptance range for the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- I The spike recovery was below the acceptance range for the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- I5 The vial provided contained preservative for 5 grams of sample; however, the vial was received with greater than 30% of this amount of sample.
- K The RPD result exceeded the quality control limits for the duplicate, Laboratory Control Sample Duplicate (LCSD), or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- L The noted analyte was detected in the method blank.
- P The noted surrogate value was below the acceptance range.
- Q Sample was analyzed at a dilution. Reporting limits were adjusted accordingly.



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Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/06/17 10:42

Project Manager: Dan Nealon

Number of Containers: 76

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be considered as analyzed outside the EPA holding time.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

* G indicates analysis performed by Fairway Laboratories, Inc. at the Greensburg location PaDEP: 65-00392. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 76

Reported:
09/06/17 10:42

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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P.O. Box 1925
Allison, PA 16602
Phone: (814) 946-4306
Fax: (814) 946-8791

Client Page # 1 of 2

Client Name: <u>Boston Lawson</u>		Received on ice? ☐ Y ☐ N		Reportable to PADEP? ☐ Yes ☐ No		PWSD # <u> </u>		Analyses Requested				LAB USE ONLY	
Address: <u>613 Baltimore Drive</u>		Sample Temp: <u> </u>		Matrix		Solid ☐ Water ☐ Other ☐		VOC's				Work Order # <u>3423150</u>	
Contact: <u>Dan Nardella</u>		GRAB - or - Composite		GRAB - or - Composite		# of Containers		SVOC's				Attach # <u>1</u>	
Phone #: <u>570-821-1944</u> X1293		Project Name: <u>Pagetti</u>		Start Date		End Date		PCBs				FLI Page # <u>1</u> of <u>3</u>	
Fax #: <u> </u>		Quote/PO #: <u>2017-3041-003</u>		Start Time		End Time		RCRA Metals				Tracking # <u> </u>	
TAT: Normal ☒ Rush ☐		Date Required: <u>1/1/17</u>		Composite		End Time						Bottle Type/Comments	
Rush TAT subject to pre-approval and surcharge.		Sample Description/Location		Start Date		End Date							
1 <u>SB-001 6.5-7'</u>		☒		<u>8-21-17</u>		<u>10:00</u>		<u>4</u>				<u>1-402</u>	
2 <u>SB-002 8.5-9'</u>		☒		<u>10:20</u>		<u>11:20</u>		<u>1</u>				<u>2-3rd Bsc 1</u>	
3 <u>SB-003 11.5-12'</u>		☒		<u>11:20</u>		<u>12:20</u>		<u>1</u>				<u>1-Met</u>	
4 <u>SB-004 8-8.5'</u>		☒		<u>11:15</u>		<u>12:20</u>		<u>1</u>					
5 <u>SB-005 17-17.5'</u>		☒		<u>14:00</u>		<u>14:55</u>		<u>1</u>					
6 <u>SB-006 14-14.5'</u>		☒		<u>14:55</u>		<u>15:00</u>		<u>1</u>					
7 <u>SB-007 10-10.5'</u>		☒		<u>15:00</u>		<u>15:05</u>		<u>1</u>					
8 <u>SB-008 22-22.5'</u>		☒		<u>15:05</u>		<u>15:10</u>		<u>1</u>					
9 <u>SB-009 8-8.5'</u>		☒		<u>15:10</u>		<u>15:15</u>		<u>1</u>					
10 <u>SB-010 6-6.5'</u>		☒		<u>15:15</u>		<u>15:20</u>		<u>1</u>					
11 <u>SB-011 6-6.5'</u>		☒		<u>15:20</u>		<u>15:25</u>		<u>1</u>					
Sampled by: <u>D. Nardella</u>		Received by: <u>Sandra Edwards (SE)</u>		Date <u>8/23/17</u>		Time <u>1405</u>		Remarks					
Relinquished by: <u>Sandra Edwards (SE)</u>		Received by: <u> </u>		Date <u>8/23/17</u>		Time <u>1545</u>							
Relinquished by: <u> </u>		Received by: <u> </u>		Date <u> </u>		Time <u> </u>							
Relinquished by: <u> </u>		Received by: <u> </u>		Date <u> </u>		Time <u> </u>							

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

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Client Page # 2 of 2

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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-016 23.5-24'	7H25128-01	Solid	Grab	08/23/17 14:15	08/25/17 19:00
SB-017 10-10.5'	7H25128-02	Solid	Grab	08/23/17 14:40	08/25/17 19:00
SB-018 21.5-22'	7H25128-03	Solid	Grab	08/24/17 09:30	08/25/17 19:00
SB-019 18-18.5'	7H25128-04	Solid	Grab	08/24/17 10:30	08/25/17 19:00
SB-020A 14-14.5'	7H25128-05	Solid	Grab	08/24/17 11:30	08/25/17 19:00
SB-020B 23.5-24'	7H25128-06	Solid	Grab	08/24/17 11:35	08/25/17 19:00
SB-021 3.-3.5'	7H25128-07	Solid	Grab	08/24/17 13:15	08/25/17 19:00
SB-022 15.5.-16'	7H25128-08	Solid	Grab	08/24/17 14:00	08/25/17 19:00
SB-023 10-10.5'	7H25128-09	Solid	Grab	08/24/17 15:00	08/25/17 19:00
SB-024 19-19.5'	7H25128-10	Solid	Grab	08/25/17 09:15	08/25/17 19:00
SB-025A 6-6.5'	7H25128-11	Solid	Grab	08/25/17 10:35	08/25/17 19:00
SB-025B 21-21.5'	7H25128-12	Solid	Grab	08/25/17 10:40	08/25/17 19:00
SB-026 18.5-19'	7H25128-13	Solid	Grab	08/25/17 11:30	08/25/17 19:00

Fairway Laboratories, Inc.

Reviewed and Submitted by:

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Michael P. Tyler
Laboratory Director



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	61.6	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.85	2.85	mg/kg dry	09/07/17 19:46	EPA 6010B/2.0	sr	
Arsenic	<5.71	5.71	mg/kg dry	09/07/17 19:46	EPA 6010B/2.0	sr	
Barium	203	7.14	mg/kg dry	09/07/17 19:44	EPA 6010B/2.0	sr	F, L
Cadmium	<2.85	2.85	mg/kg dry	09/07/17 19:46	EPA 6010B/2.0	sr	
Chromium	7.14	3.57	mg/kg dry	09/07/17 19:46	EPA 6010B/2.0	sr	
Mercury	<0.0468	0.0468	mg/kg dry	08/28/17 15:10	EPA 7471B	jks	
Lead	6.97	5.71	mg/kg dry	09/07/17 19:46	EPA 6010B/2.0	sr	
Selenium	<14.3	14.3	mg/kg dry	09/07/17 19:46	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.032	0.032	mg/kg dry	09/04/17 18:12	EPA 8082	cdh	
PCB-1221	<0.032	0.032	mg/kg dry	09/04/17 18:12	EPA 8082	cdh	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.032	0.032	mg/kg dry	09/04/17 18:12	EPA 8082	cdb	
PCB-1242	<0.032	0.032	mg/kg dry	09/04/17 18:12	EPA 8082	cdb	
PCB-1248	<0.032	0.032	mg/kg dry	09/04/17 18:12	EPA 8082	cdb	
PCB-1254	<0.032	0.032	mg/kg dry	09/04/17 18:12	EPA 8082	cdb	
PCB-1260	<0.032	0.032	mg/kg dry	09/04/17 18:12	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	83.3 %	11-140		09/04/17 18:12	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	93.4 %	24.4-140		09/04/17 18:12	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<6.20	6.20	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Diphenylamine	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Benzidine	<15.5	15.5	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Acenaphthene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Acenaphthylene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Anthracene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Benzoic acid	<31.0	31.0	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Benzo (a) anthracene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Benzo (b) fluoranthene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Benzo (a) pyrene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Benzyl alcohol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Butyl benzyl phthalate	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
4-Chloroaniline	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2-Chloronaphthalene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
2-Chlorophenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Chrysene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Dibenzofuran	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Di-n-butyl phthalate	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F

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Borton-Lawson
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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
1,3-Dichlorobenzene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
1,4-Dichlorobenzene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2,4-Dichlorophenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Diethyl phthalate	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
2,4-Dimethylphenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Dimethyl phthalate	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<15.5	15.5	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2,4-Dinitrophenol	<15.5	15.5	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2,4-Dinitrotoluene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Di-n-octyl phthalate	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Aniline	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Naphthalene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
N-Nitrosodimethylamine	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
3 & 4-Methylphenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Acetophenone	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Fluoranthene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Fluorene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Hexachlorobenzene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Hexachlorobutadiene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Hexachloroethane	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Isophorone	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2-Methylnaphthalene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2-Methylphenol	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2-Nitroaniline	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
3-Nitroaniline	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
4-Nitroaniline	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Nitrobenzene	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2-Nitrophenol	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
4-Nitrophenol	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<3.10		3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<15.5	15.5	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Phenanthrene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Phenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
Pyrene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<3.10	3.10	mg/kg dry	08/30/17 05:03	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	121 %	10-169		08/30/17 05:03	EPA 8270D	cdb	
Surrogate: Phenol-d6	121 %	10-166		08/30/17 05:03	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	133 %	18.8-170		08/30/17 05:03	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	144 %	35.1-154		08/30/17 05:03	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	125 %	20-158		08/30/17 05:03	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	138 %	52.1-160		08/30/17 05:03	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Benzene	<0.0032	0.0032	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Toluene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Ethylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	E
Naphthalene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Acrylonitrile	<0.0158	0.0158	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Bromobenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Bromochloromethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Bromodichloromethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Bromoform	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Bromomethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
sec-Butylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
tert-Butylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
n-Butylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Carbon disulfide	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Chlorobenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Chloroethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Chloroform	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Chloromethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	F
4-Chlorotoluene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	E
Dibromochloromethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0032	0.0032	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	E
Dibromomethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0079	0.0079	mg/kg dry	09/01/17 03:59	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0032	0.0032	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	D
2,2-Dichloropropane	<0.0079	0.0079	mg/kg dry	09/01/17 03:59	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	

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NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Methylene chloride	<0.0315	0.0315	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	D
n-Propylbenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Styrene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Tetrachloroethene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Trichloroethene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	

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Client Sample ID: SB-016 23.5-24'

Date/Time Sampled: 08/23/17 14:15

Laboratory Sample ID: 7H25128-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0032	0.0032	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	D
o-Xylene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
m,p-Xylene	<0.0079	0.0079	mg/kg dry	08/28/17 20:59	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	98 %	70-130		08/28/17 20:59	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	143 %	70-130		08/28/17 20:59	EPA 8260B	mtc	O
Surrogate: Fluorobenzene	109 %	70-130		08/28/17 20:59	EPA 8260B	mtc	

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Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	95.7	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.99	1.99	mg/kg dry	09/07/17 20:00	EPA 6010B/2.0	sr	
Arsenic	9.95	3.98	mg/kg dry	09/07/17 20:01	EPA 6010B/2.0	sr	
Barium	74.4	4.97	mg/kg dry	09/07/17 19:59	EPA 6010B/2.0	sr	F, L
Cadmium	<1.99	1.99	mg/kg dry	09/07/17 20:01	EPA 6010B/2.0	sr	
Chromium	6.16	2.49	mg/kg dry	09/07/17 20:01	EPA 6010B/2.0	sr	
Mercury	0.0908	0.0297	mg/kg dry	08/28/17 15:12	EPA 7471B	jks	
Lead	44.4	3.98	mg/kg dry	09/07/17 20:01	EPA 6010B/2.0	sr	
Selenium	<9.94	9.94	mg/kg dry	09/07/17 20:01	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.010	0.010	mg/kg dry	09/04/17 18:44	EPA 8082	cdb	
PCB-1221	<0.010	0.010	mg/kg dry	09/04/17 18:44	EPA 8082	cdb	

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Project Number: [none]
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Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.010	0.010	mg/kg dry	09/04/17 18:44	EPA 8082	cdb	
PCB-1242	<0.010	0.010	mg/kg dry	09/04/17 18:44	EPA 8082	cdb	
PCB-1248	<0.010	0.010	mg/kg dry	09/04/17 18:44	EPA 8082	cdb	
PCB-1254	<0.010	0.010	mg/kg dry	09/04/17 18:44	EPA 8082	cdb	
PCB-1260	<0.010	0.010	mg/kg dry	09/04/17 18:44	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	94.5 %	11-140		09/04/17 18:44	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	95.0 %	24.4-140		09/04/17 18:44	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<0.692	0.692	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Benzidine	<1.73	1.73	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Diphenylamine	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Acenaphthene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Acenaphthylene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Anthracene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Benzoic acid	<3.46	3.46	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Benzo (a) anthracene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Benzo (a) pyrene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Benzyl alcohol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
4-Chloroaniline	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2-Chloronaphthalene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
2-Chlorophenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Chrysene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Dibenzofuran	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
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Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Diethyl phthalate	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Dimethyl phthalate	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.73	1.73	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.73	1.73	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Aniline	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Naphthalene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Acetophenone	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	

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Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

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Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Fluoranthene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Fluorene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Hexachlorobenzene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Hexachlorobutadiene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Hexachloroethane	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Isophorone	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2-Methylnaphthalene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2-Methylphenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2-Nitroaniline	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
3-Nitroaniline	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
4-Nitroaniline	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Nitrobenzene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2-Nitrophenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
4-Nitrophenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	

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Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.73	1.73	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Phenanthrene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Phenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
Pyrene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.346	0.346	mg/kg dry	08/30/17 05:30	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	117 %	10-169		08/30/17 05:30	EPA 8270D	cdb	
Surrogate: Phenol-d6	114 %	10-166		08/30/17 05:30	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	123 %	18.8-170		08/30/17 05:30	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	141 %	35.1-154		08/30/17 05:30	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	124 %	20-158		08/30/17 05:30	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	134 %	52.1-160		08/30/17 05:30	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Benzene	<0.0015	0.0015	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Toluene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Ethylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	E
Naphthalene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Acrylonitrile	<0.0076	0.0076	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Bromobenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Bromochloromethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Bromodichloromethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Bromoform	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Bromomethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
sec-Butylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
tert-Butylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
n-Butylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Carbon disulfide	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Chlorobenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Chloroethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Chloroform	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Chloromethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	F
4-Chlorotoluene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	E
Dibromochloromethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0015	0.0015	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	E
Dibromomethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0038	0.0038	mg/kg dry	09/01/17 04:27	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0015	0.0015	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	D
2,2-Dichloropropane	<0.0038	0.0038	mg/kg dry	09/01/17 04:27	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	

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Borton-Lawson

613 Baltimore Drive, Suite 300

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Methylene chloride	<0.0151	0.0151	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	D
n-Propylbenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Styrene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Tetrachloroethene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Trichloroethene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	

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613 Baltimore Drive, Suite 300

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-017 10-10.5'

Date/Time Sampled: 08/23/17 14:40

Laboratory Sample ID: 7H25128-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0015	0.0015	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	D
o-Xylene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
m,p-Xylene	<0.0038	0.0038	mg/kg dry	08/28/17 21:36	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	96 %	70-130		08/28/17 21:36	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	134 %	70-130		08/28/17 21:36	EPA 8260B	mtc	O
Surrogate: Fluorobenzene	111 %	70-130		08/28/17 21:36	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	86.5	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.16	2.16	mg/kg dry	09/07/17 20:15	EPA 6010B/2.0	sr	
Arsenic	18.3	4.32	mg/kg dry	09/07/17 20:15	EPA 6010B/2.0	sr	
Barium	38.8	5.40	mg/kg dry	09/07/17 20:13	EPA 6010B/2.0	sr	F, L
Cadmium	<2.16	2.16	mg/kg dry	09/07/17 20:15	EPA 6010B/2.0	sr	
Chromium	3.30	2.70	mg/kg dry	09/07/17 20:15	EPA 6010B/2.0	sr	
Mercury	0.162	0.0333	mg/kg dry	08/28/17 15:14	EPA 7471B	jks	
Lead	71.5	4.32	mg/kg dry	09/07/17 20:15	EPA 6010B/2.0	sr	
Selenium	23.6	10.8	mg/kg dry	09/07/17 20:15	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/04/17 19:16	EPA 8082	cdb	
PCB-1221	<0.011	0.011	mg/kg dry	09/04/17 19:16	EPA 8082	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/04/17 19:16	EPA 8082	cdb	
PCB-1242	<0.011	0.011	mg/kg dry	09/04/17 19:16	EPA 8082	cdb	
PCB-1248	<0.011	0.011	mg/kg dry	09/04/17 19:16	EPA 8082	cdb	
PCB-1254	<0.011	0.011	mg/kg dry	09/04/17 19:16	EPA 8082	cdb	
PCB-1260	<0.011	0.011	mg/kg dry	09/04/17 19:16	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	98.0 %	11-140		09/04/17 19:16	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	96.4 %	24.4-140		09/04/17 19:16	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<1.92	1.92	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Diphenylamine	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Pyridine	<0.768	0.768	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Acenaphthene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Acenaphthylene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Anthracene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Benzoic acid	<3.84	3.84	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Benzo (a) anthracene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Benzo (a) pyrene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Benzyl alcohol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
4-Chloroaniline	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2-Chloronaphthalene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
2-Chlorophenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Chrysene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Dibenzofuran	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Diethyl phthalate	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Dimethyl phthalate	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.92	1.92	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.92	1.92	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Aniline	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Naphthalene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Acetophenone	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	

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Pennsdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Fluoranthene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Fluorene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Hexachlorobenzene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Hexachlorobutadiene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Hexachloroethane	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Isophorone	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2-Methylnaphthalene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2-Methylphenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2-Nitroaniline	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
3-Nitroaniline	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
4-Nitroaniline	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Nitrobenzene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2-Nitrophenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
4-Nitrophenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.92	1.92	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Phenanthrene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Phenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
Pyrene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.384	0.384	mg/kg dry	08/30/17 05:56	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	114 %	10-169		08/30/17 05:56	EPA 8270D	cdb	
Surrogate: Phenol-d6	117 %	10-166		08/30/17 05:56	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	129 %	18.8-170		08/30/17 05:56	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	146 %	35.1-154		08/30/17 05:56	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	109 %	20-158		08/30/17 05:56	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	134 %	52.1-160		08/30/17 05:56	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Benzene	<0.0024	0.0024	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Toluene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Ethylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	E
Naphthalene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Acrylonitrile	<0.0119	0.0119	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Bromobenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Bromochloromethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Bromodichloromethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Bromoform	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Bromomethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
sec-Butylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
tert-Butylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
n-Butylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Carbon disulfide	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Chlorobenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Chloroethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Chloroform	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Chloromethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	F
4-Chlorotoluene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	E
Dibromochloromethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0024	0.0024	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	E
Dibromomethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0060	0.0060	mg/kg dry	09/01/17 04:56	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0024	0.0024	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	D
2,2-Dichloropropane	<0.0060	0.0060	mg/kg dry	09/01/17 04:56	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Methylene chloride	<0.0238	0.0238	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	D
n-Propylbenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Styrene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Tetrachloroethene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Trichloroethene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-018 21.5-22'

Date/Time Sampled: 08/24/17 09:30

Laboratory Sample ID: 7H25128-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0024	0.0024	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	D
o-Xylene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
m,p-Xylene	<0.0060	0.0060	mg/kg dry	08/28/17 22:13	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	92 %	70-130		08/28/17 22:13	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	131 %	70-130		08/28/17 22:13	EPA 8260B	mtc	O
Surrogate: Fluorobenzene	108 %	70-130		08/28/17 22:13	EPA 8260B	mtc	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	70.6	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.40	2.40	mg/kg dry	09/07/17 20:41	EPA 6010B/2.0	sr	
Arsenic	138	4.80	mg/kg dry	09/07/17 20:41	EPA 6010B/2.0	sr	I
Barium	175	6.00	mg/kg dry	09/07/17 20:39	EPA 6010B/2.0	sr	F, I, L
Cadmium	5.23	2.40	mg/kg dry	09/07/17 20:41	EPA 6010B/2.0	sr	
Chromium	9.12	3.00	mg/kg dry	09/07/17 20:41	EPA 6010B/2.0	sr	
Mercury	0.901	0.0433	mg/kg dry	08/28/17 15:15	EPA 7471B	jks	
Lead	106	4.80	mg/kg dry	09/07/17 20:41	EPA 6010B/2.0	sr	I
Selenium	21.7	12.0	mg/kg dry	09/07/17 20:41	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.014	0.014	mg/kg dry	09/04/17 19:48	EPA 8082	cdb	
PCB-1221	<0.014	0.014	mg/kg dry	09/04/17 19:48	EPA 8082	cdb	

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.014	0.014	mg/kg dry	09/04/17 19:48	EPA 8082	cdb	
PCB-1242	<0.014	0.014	mg/kg dry	09/04/17 19:48	EPA 8082	cdb	
PCB-1248	<0.014	0.014	mg/kg dry	09/04/17 19:48	EPA 8082	cdb	
PCB-1254	<0.014	0.014	mg/kg dry	09/04/17 19:48	EPA 8082	cdb	
PCB-1260	<0.014	0.014	mg/kg dry	09/04/17 19:48	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	84.7 %	11-140		09/04/17 19:48	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	97.9 %	24.4-140		09/04/17 19:48	EPA 8082	cdb	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzidine	<2.34	2.34	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Pyridine	<0.936	0.936	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Diphenylamine	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Acenaphthene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Acenaphthylene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Anthracene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Benzoic acid	<4.68	4.68	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Benzo (a) anthracene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Benzo (a) pyrene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Benzyl alcohol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
4-Chloroaniline	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2-Chloronaphthalene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
2-Chlorophenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Chrysene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Dibenzofuran	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Diethyl phthalate	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Dimethyl phthalate	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<2.34	2.34	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2,4-Dinitrophenol	<2.34	2.34	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Aniline	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Naphthalene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Acetophenone	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	

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(570) 494-6380
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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Fluoranthene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Fluorene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Hexachlorobenzene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Hexachlorobutadiene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Hexachloroethane	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Isophorone	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2-Methylnaphthalene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2-Methylphenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2-Nitroaniline	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
3-Nitroaniline	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
4-Nitroaniline	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Nitrobenzene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2-Nitrophenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
4-Nitrophenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	

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89 Kristi Road
Pennssdale, PA 17756
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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.34	2.34	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Phenanthrene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Phenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
Pyrene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.468	0.468	mg/kg dry	08/30/17 06:23	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	108 %	10-169		08/30/17 06:23	EPA 8270D	cdb	
Surrogate: Phenol-d6	108 %	10-166		08/30/17 06:23	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	112 %	18.8-170		08/30/17 06:23	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	128 %	35.1-154		08/30/17 06:23	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	115 %	20-158		08/30/17 06:23	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	117 %	52.1-160		08/30/17 06:23	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Benzene	<0.0020	0.0020	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Toluene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Ethylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	E
Naphthalene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Acrylonitrile	<0.0100	0.0100	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Bromobenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Bromochloromethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Bromodichloromethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Bromoform	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Bromomethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
sec-Butylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
tert-Butylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
n-Butylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Carbon disulfide	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Chlorobenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Chloroethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Chloroform	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Chloromethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	F
4-Chlorotoluene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	E
Dibromochloromethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0020	0.0020	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	E
Dibromomethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0050	0.0050	mg/kg dry	09/01/17 05:24	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0020	0.0020	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	D
2,2-Dichloropropane	<0.0050	0.0050	mg/kg dry	09/01/17 05:24	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Methylene chloride	<0.0199	0.0199	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	D
n-Propylbenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Styrene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Tetrachloroethene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Trichloroethene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	

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NELAP: PA 07-062, VA 460212

89 Kristi Road
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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-019 18-18.5'

Date/Time Sampled: 08/24/17 10:30

Laboratory Sample ID: 7H25128-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0020	0.0020	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	D
o-Xylene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
m,p-Xylene	<0.0050	0.0050	mg/kg dry	08/28/17 23:16	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	81 %	70-130		08/28/17 23:16	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	132 %	70-130		08/28/17 23:16	EPA 8260B	mtc	O
Surrogate: Fluorobenzene	113 %	70-130		08/28/17 23:16	EPA 8260B	mtc	

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/13/17 11:10

Project Manager: Dan Nealon

Number of Containers: 52

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	88.4	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.15	2.15	mg/kg dry	09/07/17 21:09	EPA 6010B/2.0	sr	
Arsenic	6.34	4.30	mg/kg dry	09/07/17 21:10	EPA 6010B/2.0	sr	
Barium	22.8	5.37	mg/kg dry	09/07/17 21:08	EPA 6010B/2.0	sr	F, L
Cadmium	<2.15	2.15	mg/kg dry	09/07/17 21:10	EPA 6010B/2.0	sr	
Chromium	5.24	2.69	mg/kg dry	09/07/17 21:10	EPA 6010B/2.0	sr	
Mercury	<0.0338	0.0338	mg/kg dry	08/28/17 15:17	EPA 7471B	jks	
Lead	<4.30	4.30	mg/kg dry	09/07/17 21:10	EPA 6010B/2.0	sr	
Selenium	<10.7	10.7	mg/kg dry	09/07/17 21:10	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/04/17 20:20	EPA 8082	cdh	
PCB-1221	<0.011	0.011	mg/kg dry	09/04/17 20:20	EPA 8082	cdh	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/04/17 20:20	EPA 8082	cdb	
PCB-1242	<0.011	0.011	mg/kg dry	09/04/17 20:20	EPA 8082	cdb	
PCB-1248	<0.011	0.011	mg/kg dry	09/04/17 20:20	EPA 8082	cdb	
PCB-1254	<0.011	0.011	mg/kg dry	09/04/17 20:20	EPA 8082	cdb	
PCB-1260	<0.011	0.011	mg/kg dry	09/04/17 20:20	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	97.2 %	11-140		09/04/17 20:20	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	95.0 %	24.4-140		09/04/17 20:20	EPA 8082	cdb	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pyridine	<1.48	1.48	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Diphenylamine	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Benzidine	<3.70	3.70	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Acenaphthene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Acenaphthylene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Anthracene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Benzoic acid	<7.41	7.41	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Benzo (a) anthracene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Benzo (a) pyrene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Benzyl alcohol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
4-Chloroaniline	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2-Chloronaphthalene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
2-Chlorophenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Chrysene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Dibenzofuran	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Diethyl phthalate	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Dimethyl phthalate	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<3.70	3.70	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2,4-Dinitrophenol	<3.70	3.70	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Aniline	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Naphthalene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Acetophenone	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
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Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Fluoranthene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Fluorene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Hexachlorobenzene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Hexachlorobutadiene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Hexachloroethane	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Isophorone	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2-Methylnaphthalene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2-Methylphenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2-Nitroaniline	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
3-Nitroaniline	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
4-Nitroaniline	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Nitrobenzene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2-Nitrophenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
4-Nitrophenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<3.70	3.70	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Phenanthrene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Phenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
Pyrene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.741	0.741	mg/kg dry	08/30/17 06:49	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	124 %	10-169		08/30/17 06:49	EPA 8270D	cdb	
Surrogate: Phenol-d6	123 %	10-166		08/30/17 06:49	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	133 %	18.8-170		08/30/17 06:49	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	150 %	35.1-154		08/30/17 06:49	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	122 %	20-158		08/30/17 06:49	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	127 %	52.1-160		08/30/17 06:49	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Benzene	<0.0029	0.0029	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Toluene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Ethylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	E
Naphthalene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Acrylonitrile	<0.0145	0.0145	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Bromobenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Bromochloromethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Bromodichloromethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Bromoform	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Bromomethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
sec-Butylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
tert-Butylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
n-Butylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Carbon disulfide	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Chlorobenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Chloroethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Chloroform	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Chloromethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	F
4-Chlorotoluene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	E
Dibromochloromethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0029	0.0029	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	E
Dibromomethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0072	0.0072	mg/kg dry	09/01/17 05:52	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0029	0.0029	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	D
2,2-Dichloropropane	<0.0072	0.0072	mg/kg dry	09/01/17 05:52	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	

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Project: PAGNOTTI

Project Number: [none]

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Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Methylene chloride	<0.0289	0.0289	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	D
n-Propylbenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Styrene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Tetrachloroethene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Trichloroethene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	

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Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

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Client Sample ID: SB-020A 14-14.5'

Date/Time Sampled: 08/24/17 11:30

Laboratory Sample ID: 7H25128-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0029	0.0029	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	D
o-Xylene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
m,p-Xylene	<0.0072	0.0072	mg/kg dry	08/28/17 23:53	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	102 %	70-130		08/28/17 23:53	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	126 %	70-130		08/28/17 23:53	EPA 8260B	mtc	
Surrogate: Fluorobenzene	110 %	70-130		08/28/17 23:53	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	82.6	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.08	2.08	mg/kg dry	09/07/17 21:24	EPA 6010B/2.0	sr	
Arsenic	8.91	4.15	mg/kg dry	09/07/17 21:24	EPA 6010B/2.0	sr	
Barium	60.1	5.19	mg/kg dry	09/07/17 21:22	EPA 6010B/2.0	sr	F, L
Cadmium	<2.08	2.08	mg/kg dry	09/07/17 21:24	EPA 6010B/2.0	sr	
Chromium	9.68	2.60	mg/kg dry	09/07/17 21:24	EPA 6010B/2.0	sr	
Mercury	0.101	0.0335	mg/kg dry	08/28/17 15:19	EPA 7471B	jks	
Lead	40.6	4.15	mg/kg dry	09/07/17 21:24	EPA 6010B/2.0	sr	
Selenium	<10.4	10.4	mg/kg dry	09/07/17 21:24	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.012	0.012	mg/kg dry	09/04/17 20:52	EPA 8082	cdb	
PCB-1221	<0.012	0.012	mg/kg dry	09/04/17 20:52	EPA 8082	cdb	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.012	0.012	mg/kg dry	09/04/17 20:52	EPA 8082	cdb	
PCB-1242	<0.012	0.012	mg/kg dry	09/04/17 20:52	EPA 8082	cdb	
PCB-1248	<0.012	0.012	mg/kg dry	09/04/17 20:52	EPA 8082	cdb	
PCB-1254	<0.012	0.012	mg/kg dry	09/04/17 20:52	EPA 8082	cdb	
PCB-1260	<0.012	0.012	mg/kg dry	09/04/17 20:52	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	98.0 %	11-140		09/04/17 20:52	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	94.3 %	24.4-140		09/04/17 20:52	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<0.807	0.807	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Benzidine	<2.02	2.02	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Diphenylamine	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Acenaphthene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Acenaphthylene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Anthracene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Benzoic acid	<4.03	4.03	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Benzo (a) anthracene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Benzo (a) pyrene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Benzyl alcohol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
4-Chloroaniline	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2-Chloronaphthalene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
2-Chlorophenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Chrysene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Dibenzofuran	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Di-n-butyl phthalate	0.440	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Diethyl phthalate	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Dimethyl phthalate	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<2.02	2.02	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2,4-Dinitrophenol	<2.02	2.02	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Aniline	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Naphthalene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Acetophenone	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Fluoranthene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Fluorene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Hexachlorobenzene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Hexachlorobutadiene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Hexachloroethane	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Isophorone	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2-Methylnaphthalene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2-Methylphenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2-Nitroaniline	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
3-Nitroaniline	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
4-Nitroaniline	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Nitrobenzene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2-Nitrophenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
4-Nitrophenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	

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NELAP: PA 07-062, VA 460212

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.02	2.02	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Phenanthrene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Phenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
Pyrene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.403	0.403	mg/kg dry	08/30/17 08:36	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	115 %	10-169		08/30/17 08:36	EPA 8270D	cdb	
Surrogate: Phenol-d6	114 %	10-166		08/30/17 08:36	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	123 %	18.8-170		08/30/17 08:36	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	137 %	35.1-154		08/30/17 08:36	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	118 %	20-158		08/30/17 08:36	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	132 %	52.1-160		08/30/17 08:36	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

Dichlorodifluoromethane	<0.406	0.406	mg/kg dry	08/31/17 17:11	EPA 8260B	mtc
2,2-Dichloropropane	<0.406	0.406	mg/kg dry	08/31/17 17:11	EPA 8260B	mtc
1,3,5-Trimethylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc
Benzene	<0.0016	0.0016	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Toluene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Ethylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Isopropylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	E
Naphthalene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Acrylonitrile	<0.0081	0.0081	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Bromobenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Bromochloromethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Bromodichloromethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Bromoform	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Bromomethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
sec-Butylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
tert-Butylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
n-Butylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Carbon disulfide	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Chlorobenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Chloroethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Chloroform	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Chloromethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	F
4-Chlorotoluene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
2-Chlorotoluene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	E
Dibromochloromethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0016	0.0016	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	E
Dibromomethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0016	0.0016	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	D
1,3-Dichloropropane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	E
1,1-Dichloropropene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	E
Hexachlorobutadiene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Methylene chloride	<0.0163	0.0163	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	D
n-Propylbenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Styrene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Tetrachloroethene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Trichloroethene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-020B 23.5-24'

Date/Time Sampled: 08/24/17 11:35

Laboratory Sample ID: 7H25128-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0016	0.0016	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	D
o-Xylene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
m,p-Xylene	<0.0041	0.0041	mg/kg dry	08/29/17 00:30	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	97 %	70-130		08/29/17 00:30	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	128 %	70-130		08/29/17 00:30	EPA 8260B	mtc	
Surrogate: Fluorobenzene	107 %	70-130		08/29/17 00:30	EPA 8260B	mtc	

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613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	66.7	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.73	2.73	mg/kg dry	09/07/17 21:37	EPA 6010B/2.0	sr	
Arsenic	311	5.45	mg/kg dry	09/07/17 21:38	EPA 6010B/2.0	sr	
Barium	190	6.81	mg/kg dry	09/07/17 21:36	EPA 6010B/2.0	sr	F, L
Cadmium	11.0	2.73	mg/kg dry	09/07/17 21:38	EPA 6010B/2.0	sr	
Chromium	9.01	3.41	mg/kg dry	09/07/17 21:38	EPA 6010B/2.0	sr	
Mercury	1.57	0.404	mg/kg dry	08/28/17 15:59	EPA 7471B	jks	Q
Lead	165	5.45	mg/kg dry	09/07/17 21:38	EPA 6010B/2.0	sr	
Selenium	33.5	13.6	mg/kg dry	09/07/17 21:38	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.015	0.015	mg/kg dry	09/04/17 21:24	EPA 8082	cdB	
PCB-1221	<0.015	0.015	mg/kg dry	09/04/17 21:24	EPA 8082	cdB	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.015	0.015	mg/kg dry	09/04/17 21:24	EPA 8082	cdb	
PCB-1242	<0.015	0.015	mg/kg dry	09/04/17 21:24	EPA 8082	cdb	
PCB-1248	<0.015	0.015	mg/kg dry	09/04/17 21:24	EPA 8082	cdb	
PCB-1254	<0.015	0.015	mg/kg dry	09/04/17 21:24	EPA 8082	cdb	
PCB-1260	<0.015	0.015	mg/kg dry	09/04/17 21:24	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	98.6 %	11-140		09/04/17 21:24	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	89.5 %	24.4-140		09/04/17 21:24	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<0.982	0.982	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Diphenylamine	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Benzidine	<2.46	2.46	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Acenaphthene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Acenaphthylene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Anthracene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Benzoic acid	<4.91	4.91	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Benzo (a) anthracene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F

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State Certifications: MD 275, WV 364

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/13/17 11:10

Project Manager: Dan Nealon

Number of Containers: 52

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Benzo (a) pyrene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Benzyl alcohol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
4-Chloroaniline	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2-Chloronaphthalene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
2-Chlorophenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Chrysene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Dibenzofuran	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Diethyl phthalate	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Dimethyl phthalate	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<2.46	2.46	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2,4-Dinitrophenol	<2.46	2.46	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Aniline	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Naphthalene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Acetophenone	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	

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Pennssdale, PA 17756
(570) 494-6380
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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Fluoranthene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Fluorene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Hexachlorobenzene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Hexachlorobutadiene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Hexachloroethane	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Isophorone	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2-Methylnaphthalene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2-Methylphenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2-Nitroaniline	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
3-Nitroaniline	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
4-Nitroaniline	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Nitrobenzene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2-Nitrophenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
4-Nitrophenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.46	2.46	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Phenanthrene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Phenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
Pyrene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.491	0.491	mg/kg dry	08/30/17 09:03	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	118 %	10-169		08/30/17 09:03	EPA 8270D	cdb	
Surrogate: Phenol-d6	116 %	10-166		08/30/17 09:03	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	122 %	18.8-170		08/30/17 09:03	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	140 %	35.1-154		08/30/17 09:03	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	119 %	20-158		08/30/17 09:03	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	132 %	52.1-160		08/30/17 09:03	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Benzene	<0.247	0.247	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Toluene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Ethylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Methyl tert-butyl ether	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Naphthalene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Acrylonitrile	<1.23	1.23	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Bromobenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Bromochloromethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Bromodichloromethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Bromoform	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Bromomethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
sec-Butylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
tert-Butylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
n-Butylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Carbon disulfide	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Chlorobenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Chloroethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Chloroform	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Chloromethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
4-Chlorotoluene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	D
Dibromochloromethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.247	0.247	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Dibromomethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2-Dichloroethane	<0.247	0.247	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,1-Dichloroethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,1-Dichloroethene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
2,2-Dichloropropane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,3-Dichloropropane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2-Dichloropropane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	

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(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,1-Dichloropropene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Hexachlorobutadiene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
p-Isopropyltoluene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Methylene chloride	<2.47	2.47	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	D
n-Propylbenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Styrene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Tetrachloroethene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Trichloroethene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
Trichlorofluoromethane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-021 3.-3.5'

Date/Time Sampled: 08/24/17 13:15

Laboratory Sample ID: 7H25128-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.247	0.247	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
o-Xylene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
m,p-Xylene	<0.617	0.617	mg/kg dry	08/31/17 17:39	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	97 %	70-130		08/31/17 17:39	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/31/17 17:39	EPA 8260B	mtc
Surrogate: Fluorobenzene	99 %	70-130		08/31/17 17:39	EPA 8260B	mtc

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	89.5	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.06	2.06	mg/kg dry	09/07/17 22:05	EPA 6010B/2.0	sr	
Arsenic	7.70	4.12	mg/kg dry	09/07/17 22:05	EPA 6010B/2.0	sr	
Barium	35.8	5.14	mg/kg dry	09/07/17 22:03	EPA 6010B/2.0	sr	F, L
Cadmium	<2.06	2.06	mg/kg dry	09/07/17 22:05	EPA 6010B/2.0	sr	
Chromium	8.85	2.57	mg/kg dry	09/07/17 22:05	EPA 6010B/2.0	sr	
Mercury	0.0676	0.0342	mg/kg dry	08/28/17 15:22	EPA 7471B	jks	
Lead	11.5	4.12	mg/kg dry	09/07/17 22:05	EPA 6010B/2.0	sr	
Selenium	<10.3	10.3	mg/kg dry	09/07/17 22:05	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/04/17 21:55	EPA 8082	cdb	
PCB-1221	<0.011	0.011	mg/kg dry	09/04/17 21:55	EPA 8082	cdb	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/04/17 21:55	EPA 8082	cdb	
PCB-1242	<0.011	0.011	mg/kg dry	09/04/17 21:55	EPA 8082	cdb	
PCB-1248	<0.011	0.011	mg/kg dry	09/04/17 21:55	EPA 8082	cdb	
PCB-1254	<0.011	0.011	mg/kg dry	09/04/17 21:55	EPA 8082	cdb	
PCB-1260	<0.011	0.011	mg/kg dry	09/04/17 21:55	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	99.3 %	11-140		09/04/17 21:55	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	96.8 %	24.4-140		09/04/17 21:55	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Pyridine	<0.731	0.731	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Benzidine	<1.83	1.83	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Acenaphthene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Acenaphthylene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Anthracene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Benzoic acid	<3.66	3.66	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Benzo (a) anthracene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Benzo (a) pyrene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Benzyl alcohol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
4-Chloroaniline	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2-Chloronaphthalene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
2-Chlorophenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Chrysene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Dibenzofuran	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Diethyl phthalate	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Dimethyl phthalate	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.83	1.83	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.83	1.83	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Aniline	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Naphthalene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Acetophenone	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

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Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Fluoranthene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Fluorene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Hexachlorobenzene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Hexachlorobutadiene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Hexachloroethane	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Isophorone	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2-Methylnaphthalene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2-Methylphenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2-Nitroaniline	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
3-Nitroaniline	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
4-Nitroaniline	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Nitrobenzene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2-Nitrophenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
4-Nitrophenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

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09/13/17 11:10

Client Sample ID: SB-022 15.5-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.83	1.83	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Phenanthrene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Phenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
Pyrene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.366	0.366	mg/kg dry	08/30/17 09:30	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	115 %	10-169		08/30/17 09:30	EPA 8270D	cdb	
Surrogate: Phenol-d6	112 %	10-166		08/30/17 09:30	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	123 %	18.8-170		08/30/17 09:30	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	137 %	35.1-154		08/30/17 09:30	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	121 %	20-158		08/30/17 09:30	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	133 %	52.1-160		08/30/17 09:30	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Benzene	<0.0017	0.0017	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Toluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Ethylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Naphthalene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Acrylonitrile	<0.0085	0.0085	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Bromobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Bromochloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Bromodichloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Bromoform	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Bromomethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
sec-Butylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
tert-Butylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
n-Butylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Carbon disulfide	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Chlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Chloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Chloroform	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Chloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
4-Chlorotoluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/13/17 11:10

Project Manager: Dan Nealon

Number of Containers: 52

Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Dibromochloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0017	0.0017	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Dibromomethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,2-Dichloroethane	<0.0017	0.0017	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,1-Dichloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,1-Dichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
2,2-Dichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,3-Dichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
1,2-Dichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-022 15.5.-16'

Date/Time Sampled: 08/24/17 14:00

Laboratory Sample ID: 7H25128-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Methylene chloride	<0.0171	0.0171	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	D
n-Propylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Styrene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Tetrachloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Trichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc	

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Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0017	0.0017	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
o-Xylene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
m,p-Xylene	<0.0043	0.0043	mg/kg dry	09/01/17 06:20	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	102 %	70-130		09/01/17 06:20	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	113 %	70-130		09/01/17 06:20	EPA 8260B	mtc
Surrogate: Fluorobenzene	100 %	70-130		09/01/17 06:20	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	86.4	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.17	2.17	mg/kg dry	09/07/17 22:19	EPA 6010B/2.0	sr	
Arsenic	52.0	4.34	mg/kg dry	09/07/17 22:20	EPA 6010B/2.0	sr	
Barium	73.0	5.43	mg/kg dry	09/07/17 22:18	EPA 6010B/2.0	sr	F, L
Cadmium	<2.17	2.17	mg/kg dry	09/07/17 22:20	EPA 6010B/2.0	sr	
Chromium	5.07	2.71	mg/kg dry	09/07/17 22:20	EPA 6010B/2.0	sr	
Mercury	0.0867	0.0347	mg/kg dry	08/28/17 15:28	EPA 7471B	jks	H
Lead	29.2	4.34	mg/kg dry	09/07/17 22:20	EPA 6010B/2.0	sr	
Selenium	<10.9	10.9	mg/kg dry	09/07/17 22:20	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/04/17 22:27	EPA 8082	cdh	
PCB-1221	<0.011	0.011	mg/kg dry	09/04/17 22:27	EPA 8082	cdh	

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Project Number: [none]
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Reported:
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Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/04/17 22:27	EPA 8082	cdb	
PCB-1242	<0.011	0.011	mg/kg dry	09/04/17 22:27	EPA 8082	cdb	
PCB-1248	<0.011	0.011	mg/kg dry	09/04/17 22:27	EPA 8082	cdb	
PCB-1254	<0.011	0.011	mg/kg dry	09/04/17 22:27	EPA 8082	cdb	
PCB-1260	<0.011	0.011	mg/kg dry	09/04/17 22:27	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	109 %	11-140		09/04/17 22:27	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	105 %	24.4-140		09/04/17 22:27	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<1.90	1.90	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Pyridine	<0.759	0.759	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Diphenylamine	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Acenaphthene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Acenaphthylene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Anthracene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Benzoic acid	<3.80	3.80	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Benzo (a) anthracene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Benzo (a) pyrene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Benzyl alcohol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
4-Chloroaniline	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2-Chloronaphthalene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
2-Chlorophenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Chrysene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Dibenzofuran	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F

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Project Number: [none]
Collector: CLIENT
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Reported:
09/13/17 11:10

Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Diethyl phthalate	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Dimethyl phthalate	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.90	1.90	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.90	1.90	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Aniline	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Naphthalene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Acetophenone	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Fluoranthene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Fluorene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Hexachlorobenzene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Hexachlorobutadiene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Hexachloroethane	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Isophorone	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2-Methylnaphthalene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2-Methylphenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2-Nitroaniline	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
3-Nitroaniline	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
4-Nitroaniline	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Nitrobenzene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2-Nitrophenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
4-Nitrophenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	

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Collector: CLIENT
Number of Containers: 52
Reported: 09/13/17 11:10

Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.90	1.90	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Phenanthrene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Phenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
Pyrene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.380	0.380	mg/kg dry	08/30/17 09:57	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	118 %	10-169		08/30/17 09:57	EPA 8270D	cdb	
Surrogate: Phenol-d6	115 %	10-166		08/30/17 09:57	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	122 %	18.8-170		08/30/17 09:57	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	137 %	35.1-154		08/30/17 09:57	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	120 %	20-158		08/30/17 09:57	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	132 %	52.1-160		08/30/17 09:57	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Benzene	<0.0017	0.0017	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Toluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Ethylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	

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Altoona, PA 16603
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NELAP: PA 07-062, VA 460212

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Naphthalene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Acrylonitrile	<0.0086	0.0086	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Bromobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Bromochloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Bromodichloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Bromoform	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Bromomethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
sec-Butylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
tert-Butylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
n-Butylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Carbon disulfide	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Chlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Chloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Chloroform	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Chloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
4-Chlorotoluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Dibromochloromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0017	0.0017	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Dibromomethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,2-Dichloroethane	<0.0017	0.0017	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,1-Dichloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,1-Dichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
2,2-Dichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,3-Dichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
1,2-Dichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc

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Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Methylene chloride	<0.0171	0.0171	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	D
n-Propylbenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Styrene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Tetrachloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Trichloroethene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-023 10-10.5'

Date/Time Sampled: 08/24/17 15:00

Laboratory Sample ID: 7H25128-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0017	0.0017	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
o-Xylene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
m,p-Xylene	<0.0043	0.0043	mg/kg dry	09/01/17 06:49	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	98 %	70-130		09/01/17 06:49	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	119 %	70-130		09/01/17 06:49	EPA 8260B	mtc
Surrogate: Fluorobenzene	100 %	70-130		09/01/17 06:49	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	86.5	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.19	2.19	mg/kg dry	09/07/17 22:34	EPA 6010B/2.0	sr	
Arsenic	431	4.39	mg/kg dry	09/07/17 22:34	EPA 6010B/2.0	sr	
Barium	65.5	5.48	mg/kg dry	09/07/17 22:32	EPA 6010B/2.0	sr	F, L
Cadmium	15.2	2.19	mg/kg dry	09/07/17 22:34	EPA 6010B/2.0	sr	
Chromium	6.74	2.74	mg/kg dry	09/07/17 22:34	EPA 6010B/2.0	sr	
Mercury	<0.0357	0.0357	mg/kg dry	08/28/17 15:30	EPA 7471B	jks	
Lead	11.7	4.39	mg/kg dry	09/07/17 22:34	EPA 6010B/2.0	sr	
Selenium	39.3	11.0	mg/kg dry	09/07/17 22:34	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/04/17 22:59	EPA 8082	cdB	
PCB-1221	<0.011	0.011	mg/kg dry	09/04/17 22:59	EPA 8082	cdB	

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Number of Containers: 52

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09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/04/17 22:59	EPA 8082	cdb	
PCB-1242	<0.011	0.011	mg/kg dry	09/04/17 22:59	EPA 8082	cdb	
PCB-1248	<0.011	0.011	mg/kg dry	09/04/17 22:59	EPA 8082	cdb	
PCB-1254	<0.011	0.011	mg/kg dry	09/04/17 22:59	EPA 8082	cdb	
PCB-1260	<0.011	0.011	mg/kg dry	09/04/17 22:59	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	106 %	11-140		09/04/17 22:59	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	95.7 %	24.4-140		09/04/17 22:59	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<1.92	1.92	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Pyridine	<0.767	0.767	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Diphenylamine	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Acenaphthene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Acenaphthylene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Anthracene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Benzoic acid	<3.83	3.83	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Benzo (a) anthracene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Benzo (k) fluoranthene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Benzo (a) pyrene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Benzyl alcohol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
4-Chloroaniline	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
4-Chloro-3-methylphenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2-Chloronaphthalene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
2-Chlorophenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Chrysene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Dibenzofuran	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Diethyl phthalate	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Dimethyl phthalate	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.92	1.92	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.92	1.92	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Aniline	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Naphthalene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Acetophenone	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	

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NELAP: PA 07-062, VA 460212

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Fluoranthene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Fluorene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Hexachlorobenzene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Hexachlorobutadiene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Hexachloroethane	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Isophorone	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2-Methylnaphthalene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2-Methylphenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2-Nitroaniline	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
3-Nitroaniline	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
4-Nitroaniline	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Nitrobenzene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2-Nitrophenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
4-Nitrophenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.92	1.92	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Phenanthrene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Phenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
Pyrene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.383	0.383	mg/kg dry	08/30/17 10:24	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	118 %	10-169		08/30/17 10:24	EPA 8270D	cdb	
Surrogate: Phenol-d6	117 %	10-166		08/30/17 10:24	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	125 %	18.8-170		08/30/17 10:24	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	138 %	35.1-154		08/30/17 10:24	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	122 %	20-158		08/30/17 10:24	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	135 %	52.1-160		08/30/17 10:24	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Benzene	<0.0014	0.0014	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Toluene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Ethylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc

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Pennssdale, PA 17756
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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Naphthalene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Acrylonitrile	<0.0072	0.0072	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Bromobenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Bromochloromethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Bromodichloromethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Bromoform	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Bromomethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
sec-Butylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
tert-Butylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
n-Butylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Carbon disulfide	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Chlorobenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Chloroethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Chloroform	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Chloromethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
4-Chlorotoluene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Dibromochloromethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0014	0.0014	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Dibromomethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,2-Dichloroethane	<0.0014	0.0014	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,1-Dichloroethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,1-Dichloroethene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
2,2-Dichloropropane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,3-Dichloropropane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
1,2-Dichloropropane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
Methylene chloride	<0.0143	0.0143	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	D
n-Propylbenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
Styrene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
Tetrachloroethene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
Trichloroethene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc	

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-024 19-19.5'

Date/Time Sampled: 08/25/17 09:15

Laboratory Sample ID: 7H25128-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0014	0.0014	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
o-Xylene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
m,p-Xylene	<0.0036	0.0036	mg/kg dry	09/01/17 07:17	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	102 %	70-130		09/01/17 07:17	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		09/01/17 07:17	EPA 8260B	mtc
Surrogate: Fluorobenzene	99 %	70-130		09/01/17 07:17	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-025A 6-6.5'

Date/Time Sampled: 08/25/17 10:35

Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	93.0	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.96	1.96	mg/kg dry	09/07/17 22:48	EPA 6010B/2.0	sr	
Arsenic	16.7	3.93	mg/kg dry	09/07/17 22:48	EPA 6010B/2.0	sr	
Barium	171	4.91	mg/kg dry	09/07/17 22:46	EPA 6010B/2.0	sr	F, L
Cadmium	<1.96	1.96	mg/kg dry	09/07/17 22:48	EPA 6010B/2.0	sr	
Chromium	32.5	2.46	mg/kg dry	09/07/17 22:48	EPA 6010B/2.0	sr	
Mercury	0.0523	0.0329	mg/kg dry	08/28/17 15:32	EPA 7471B	jks	
Lead	20.1	3.93	mg/kg dry	09/07/17 22:48	EPA 6010B/2.0	sr	
Selenium	<9.82	9.82	mg/kg dry	09/07/17 22:48	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.021	0.021	mg/kg dry	09/04/17 23:31	EPA 8082	cdb	
PCB-1221	<0.021	0.021	mg/kg dry	09/04/17 23:31	EPA 8082	cdb	

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State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025A 6-6.5'

Date/Time Sampled: 08/25/17 10:35

Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.021	0.021	mg/kg dry	09/04/17 23:31	EPA 8082	cdb
PCB-1242	<0.021	0.021	mg/kg dry	09/04/17 23:31	EPA 8082	cdb
PCB-1248	<0.021	0.021	mg/kg dry	09/04/17 23:31	EPA 8082	cdb
PCB-1254	<0.021	0.021	mg/kg dry	09/04/17 23:31	EPA 8082	cdb
PCB-1260	<0.021	0.021	mg/kg dry	09/04/17 23:31	EPA 8082	cdb
<i>Surrogate: Tetrachloro-meta-xylene</i>	<i>106 %</i>	<i>11-140</i>		<i>09/04/17 23:31</i>	<i>EPA 8082</i>	<i>cdb</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>106 %</i>	<i>24.4-140</i>		<i>09/04/17 23:31</i>	<i>EPA 8082</i>	<i>cdb</i>

Semivolatile Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Pyridine	<1.90	1.90	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Benzidine	<4.74	4.74	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Acenaphthene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Acenaphthylene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Anthracene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Benzoic acid	<9.48	9.48	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Benzo (a) anthracene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Benzo (k) fluoranthene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	

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89 Kristi Road
Pennssdale, PA 17756
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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-025A 6-6.5'

Date/Time Sampled: 08/25/17 10:35

Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Benzo (a) pyrene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Benzyl alcohol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Butyl benzyl phthalate	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
4-Chloroaniline	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
4-Chloro-3-methylphenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
2-Chloronaphthalene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
2-Chlorophenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Chrysene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Dibenz (a,h) anthracene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Dibenzofuran	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Di-n-butyl phthalate	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F

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Project Number: [none]

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Client Sample ID: SB-025A 6-6.5'

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Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
1,3-Dichlorobenzene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
1,4-Dichlorobenzene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
2,4-Dichlorophenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Diethyl phthalate	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
2,4-Dimethylphenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Dimethyl phthalate	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<4.74	4.74	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
2,4-Dinitrophenol	<4.74	4.74	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
2,4-Dinitrotoluene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Di-n-octyl phthalate	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Aniline	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Naphthalene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
N-Nitrosodimethylamine	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Acetophenone	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
3 & 4-Methylphenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Fluoranthene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Fluorene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Hexachlorobenzene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Hexachlorobutadiene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Hexachlorocyclopentadiene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Hexachloroethane	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Isophorone	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
2-Methylnaphthalene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
2-Methylphenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
2-Nitroaniline	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
3-Nitroaniline	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
4-Nitroaniline	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Nitrobenzene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
2-Nitrophenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
4-Nitrophenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
N-Nitrosodi-n-propylamine	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	

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(570) 494-6380
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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<4.74	4.74	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Phenanthrene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Phenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
Pyrene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
1,2,4-Trichlorobenzene	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	
2,4,5-Trichlorophenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
2,4,6-Trichlorophenol	<0.948	0.948	mg/kg dry	09/01/17 23:42	EPA 8270D	rsr	F
Surrogate: 2-Fluorophenol	113 %	10-169		09/01/17 23:42	EPA 8270D	rsr	
Surrogate: Phenol-d6	114 %	10-166		09/01/17 23:42	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	125 %	18.8-170		09/01/17 23:42	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	136 %	35.1-154		09/01/17 23:42	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	122 %	20-158		09/01/17 23:42	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	127 %	52.1-160		09/01/17 23:42	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Benzene	<0.0022	0.0022	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Toluene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Ethylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	

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(570) 494-6380
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025A 6-6.5'

Date/Time Sampled: 08/25/17 10:35

Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Naphthalene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Acrylonitrile	<0.0110	0.0110	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Bromobenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Bromochloromethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Bromodichloromethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Bromoform	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Bromomethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
sec-Butylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
tert-Butylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
n-Butylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Carbon disulfide	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Chlorobenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Chloroethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Chloroform	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Chloromethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
4-Chlorotoluene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc

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Date/Time Sampled: 08/25/17 10:35

Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Dibromochloromethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0022	0.0022	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Dibromomethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,2-Dichloroethane	<0.0022	0.0022	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,1-Dichloroethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,1-Dichloroethene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
2,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,3-Dichloropropane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
1,2-Dichloropropane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc

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Client Sample ID: SB-025A 6-6.5'

Date/Time Sampled: 08/25/17 10:35

Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Methylene chloride	<0.0221	0.0221	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	D
n-Propylbenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Styrene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Tetrachloroethene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Trichloroethene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc	

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025A 6-6.5'

Date/Time Sampled: 08/25/17 10:35

Laboratory Sample ID: 7H25128-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0022	0.0022	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
o-Xylene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
m,p-Xylene	<0.0055	0.0055	mg/kg dry	09/01/17 07:45	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	77 %	70-130		09/01/17 07:45	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	125 %	70-130		09/01/17 07:45	EPA 8260B	mtc
Surrogate: Fluorobenzene	100 %	70-130		09/01/17 07:45	EPA 8260B	mtc

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	79.4	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.20	2.20	mg/kg dry	09/07/17 23:02	EPA 6010B/2.0	sr	
Arsenic	9.27	4.41	mg/kg dry	09/07/17 23:02	EPA 6010B/2.0	sr	
Barium	75.4	5.51	mg/kg dry	09/07/17 23:00	EPA 6010B/2.0	sr	F, L
Cadmium	<2.20	2.20	mg/kg dry	09/07/17 23:02	EPA 6010B/2.0	sr	
Chromium	3.77	2.75	mg/kg dry	09/07/17 23:02	EPA 6010B/2.0	sr	
Mercury	<0.0382	0.0382	mg/kg dry	08/28/17 15:33	EPA 7471B	jks	
Lead	20.6	4.41	mg/kg dry	09/07/17 23:02	EPA 6010B/2.0	sr	
Selenium	<11.0	11.0	mg/kg dry	09/07/17 23:02	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.012	0.012	mg/kg dry	09/05/17 00:03	EPA 8082	cdB	
PCB-1221	<0.012	0.012	mg/kg dry	09/05/17 00:03	EPA 8082	cdB	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.012	0.012	mg/kg dry	09/05/17 00:03	EPA 8082	cdb	
PCB-1242	<0.012	0.012	mg/kg dry	09/05/17 00:03	EPA 8082	cdb	
PCB-1248	<0.012	0.012	mg/kg dry	09/05/17 00:03	EPA 8082	cdb	
PCB-1254	<0.012	0.012	mg/kg dry	09/05/17 00:03	EPA 8082	cdb	
PCB-1260	<0.012	0.012	mg/kg dry	09/05/17 00:03	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	111 %	11-140		09/05/17 00:03	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	103 %	24.4-140		09/05/17 00:03	EPA 8082	cdb	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzidine	<6.19	6.19	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Pyridine	<2.48	2.48	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Diphenylamine	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Acenaphthene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Acenaphthylene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Anthracene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Benzoic acid	<12.4	12.4	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Benzo (a) anthracene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Benzo (b) fluoranthene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	H
Benzo (k) fluoranthene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Benzo (a) pyrene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Benzyl alcohol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Butyl benzyl phthalate	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
4-Chloroaniline	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
4-Chloro-3-methylphenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
2-Chloronaphthalene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
2-Chlorophenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Chrysene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Dibenzofuran	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Di-n-butyl phthalate	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
1,3-Dichlorobenzene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
1,4-Dichlorobenzene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2,4-Dichlorophenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Diethyl phthalate	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
2,4-Dimethylphenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Dimethyl phthalate	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<6.19	6.19	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2,4-Dinitrophenol	<6.19	6.19	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2,4-Dinitrotoluene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Di-n-octyl phthalate	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Aniline	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Naphthalene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
N-Nitrosodimethylamine	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
3 & 4-Methylphenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Acetophenone	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Fluoranthene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Fluorene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	H
Hexachlorobenzene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Hexachlorobutadiene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Hexachloroethane	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Isophorone	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2-Methylnaphthalene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2-Methylphenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2-Nitroaniline	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
3-Nitroaniline	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
4-Nitroaniline	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Nitrobenzene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2-Nitrophenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
4-Nitrophenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/13/17 11:10

Project Manager: Dan Nealon

Number of Containers: 52

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<6.19	6.19	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Phenanthrene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Phenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
Pyrene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<1.24	1.24	mg/kg dry	09/05/17 17:10	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	117 %	10-169		09/05/17 17:10	EPA 8270D	cdb	
Surrogate: Phenol-d6	117 %	10-166		09/05/17 17:10	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	120 %	18.8-170		09/05/17 17:10	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	134 %	35.1-154		09/05/17 17:10	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	123 %	20-158		09/05/17 17:10	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	126 %	52.1-160		09/05/17 17:10	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Benzene	<0.0016	0.0016	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Toluene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Ethylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52
Reported:
09/13/17 11:10

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Naphthalene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Acrylonitrile	<0.0079	0.0079	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Bromobenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Bromochloromethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Bromodichloromethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Bromoform	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Bromomethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
sec-Butylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
tert-Butylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
n-Butylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Carbon disulfide	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Chlorobenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Chloroethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Chloroform	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Chloromethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
4-Chlorotoluene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-025B 21-21.5'

Date/Time Sampled: 08/25/17 10:40

Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,2-Dibromo-3-chloropropane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Dibromochloromethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,2-Dibromoethane (EDB)	<0.0016	0.0016	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Dibromomethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
trans-1,4-Dichloro-2-butene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,2-Dichlorobenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,4-Dichlorobenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,3-Dichlorobenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Dichlorodifluoromethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,2-Dichloroethane	<0.0016	0.0016	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,1-Dichloroethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
trans-1,2-Dichloroethene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
cis-1,2-Dichloroethene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,1-Dichloroethene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
2,2-Dichloropropane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,3-Dichloropropane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
1,2-Dichloropropane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc

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Laboratory Sample ID: 7H25128-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Methylene chloride	<0.0159	0.0159	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	D
n-Propylbenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Styrene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Tetrachloroethene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Trichloroethene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0016	0.0016	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
o-Xylene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
m,p-Xylene	<0.0040	0.0040	mg/kg dry	09/01/17 08:13	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	97 %	70-130		09/01/17 08:13	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		09/01/17 08:13	EPA 8260B	mtc
Surrogate: Fluorobenzene	100 %	70-130		09/01/17 08:13	EPA 8260B	mtc

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Client Sample ID: SB-026 18.5-19'

Date/Time Sampled: 08/25/17 11:30

Laboratory Sample ID: 7H25128-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	67.3	0.100	%	08/26/17 12:30	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.82	2.82	mg/kg dry	09/07/17 23:28	EPA 6010B/2.0	sr	
Arsenic	192	5.64	mg/kg dry	09/07/17 23:29	EPA 6010B/2.0	sr	I, K
Barium	186	7.06	mg/kg dry	09/07/17 23:27	EPA 6010B/2.0	sr	F, H, K, L
Cadmium	6.96	2.82	mg/kg dry	09/07/17 23:29	EPA 6010B/2.0	sr	I
Chromium	9.31	3.53	mg/kg dry	09/07/17 23:29	EPA 6010B/2.0	sr	H, K
Mercury	0.492	0.0440	mg/kg dry	08/28/17 15:51	EPA 7471B	jks	
Lead	11.1	5.64	mg/kg dry	09/07/17 23:29	EPA 6010B/2.0	sr	H, K
Selenium	<14.1	14.1	mg/kg dry	09/07/17 23:29	EPA 6010B/2.0	sr	

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.015	0.015	mg/kg dry	09/05/17 00:35	EPA 8082	cdB	
PCB-1221	<0.015	0.015	mg/kg dry	09/05/17 00:35	EPA 8082	cdB	

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Date/Time Sampled: 08/25/17 11:30

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.015	0.015	mg/kg dry	09/05/17 00:35	EPA 8082	cdb	
PCB-1242	<0.015	0.015	mg/kg dry	09/05/17 00:35	EPA 8082	cdb	
PCB-1248	<0.015	0.015	mg/kg dry	09/05/17 00:35	EPA 8082	cdb	
PCB-1254	<0.015	0.015	mg/kg dry	09/05/17 00:35	EPA 8082	cdb	
PCB-1260	<0.015	0.015	mg/kg dry	09/05/17 00:35	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	105 %	11-140		09/05/17 00:35	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	105 %	24.4-140		09/05/17 00:35	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Benzidine	<4.91	4.91	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Pyridine	<1.96	1.96	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Acenaphthene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Acenaphthylene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Anthracene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Benzoic acid	<9.81	9.81	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Benzo (a) anthracene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	H
Benzo (k) fluoranthene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-026 18.5-19'

Date/Time Sampled: 08/25/17 11:30

Laboratory Sample ID: 7H25128-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Benzo (a) pyrene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Benzyl alcohol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
4-Chloroaniline	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
4-Chloro-3-methylphenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
2-Chloronaphthalene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
2-Chlorophenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Chrysene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Dibenzofuran	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-026 18.5-19'

Date/Time Sampled: 08/25/17 11:30

Laboratory Sample ID: 7H25128-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Diethyl phthalate	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Dimethyl phthalate	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<4.91	4.91	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2,4-Dinitrophenol	<4.91	4.91	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Aniline	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Naphthalene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Acetophenone	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 52

Reported:
09/13/17 11:10

Client Sample ID: SB-026 18.5-19'

Date/Time Sampled: 08/25/17 11:30

Laboratory Sample ID: 7H25128-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Fluoranthene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Fluorene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	H
Hexachlorobenzene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Hexachlorobutadiene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Hexachloroethane	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Isophorone	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2-Methylnaphthalene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2-Methylphenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2-Nitroaniline	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
3-Nitroaniline	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
4-Nitroaniline	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Nitrobenzene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2-Nitrophenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
4-Nitrophenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	

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NELAP: PA 07-062, VA 460212

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<4.91	4.91	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Phenanthrene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Phenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
Pyrene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.981	0.981	mg/kg dry	09/05/17 17:38	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	119 %	10-169		09/05/17 17:38	EPA 8270D	cdb	
Surrogate: Phenol-d6	117 %	10-166		09/05/17 17:38	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	121 %	18.8-170		09/05/17 17:38	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	136 %	35.1-154		09/05/17 17:38	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	115 %	20-158		09/05/17 17:38	EPA 8270D	cdb	
Surrogate: Terphenyl-d14	102 %	52.1-160		09/05/17 17:38	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Benzene	<0.0023	0.0023	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Toluene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Ethylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	

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Laboratory Sample ID: 7H25128-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Naphthalene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Acrylonitrile	<0.0117	0.0117	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Bromobenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Bromochloromethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Bromodichloromethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Bromoform	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Bromomethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
sec-Butylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
tert-Butylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
n-Butylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Carbon disulfide	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Chlorobenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Chloroethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Chloroform	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
Chloromethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc
4-Chlorotoluene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc

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Date/Time Sampled: 08/25/17 11:30

Laboratory Sample ID: 7H25128-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	D
Dibromochloromethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0023	0.0023	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Dibromomethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2-Dichloroethane	<0.0023	0.0023	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,1-Dichloropropene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Methylene chloride	<0.0233	0.0233	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	D
n-Propylbenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Styrene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Tetrachloroethene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Trichloroethene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0023	0.0023	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
o-Xylene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
m,p-Xylene	<0.0058	0.0058	mg/kg dry	08/31/17 23:17	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	85 %	70-130		08/31/17 23:17	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	135 %	70-130		08/31/17 23:17	EPA 8260B	mtc	O
Surrogate: Fluorobenzene	91 %	70-130		08/31/17 23:17	EPA 8260B	mtc	

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Notes

- D A Continuing Calibration Verification (CCV) analyzed with the analytical batch recovered above the acceptance range for the noted analyte.
- E A Continuing Calibration Verification (CCV) analyzed with the analytical batch recovered below the acceptance range for the noted analyte.
- F The Laboratory Control Sample (LCS) analyzed with this preparation batch recovered above the acceptance range for the noted analyte.
- H The spike recovery was above the acceptance range for the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- I The spike recovery was below the acceptance range for the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- I5 The vial provided contained preservative for 5 grams of sample; however, the vial was received with greater than 30% of this amount of sample.
- K The RPD result exceeded the quality control limits for the duplicate, Laboratory Control Sample Duplicate (LCSD), or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- L The noted analyte was detected in the method blank.
- O The noted surrogate value was above the acceptance range.
- Q Sample was analyzed at a dilution. Reporting limits were adjusted accordingly.



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Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be considered as analyzed outside the EPA holding time.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

* G indicates analysis performed by Fairway Laboratories, Inc. at the Greensburg location PaDEP: 65-00392. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

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Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 52

Reported:

09/13/17 11:10

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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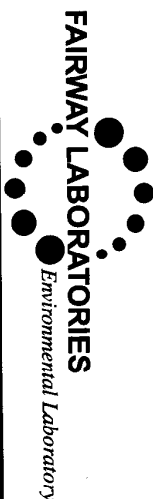
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Client Page # 1 of 2

Client Name: <u>Barton Leavitt</u>		Received on ice? ☐ Y ☒ N		Reportable to PADEP? ☐ Yes ☒ No		PW/SID # <u> </u>		Analyses Requested				LAB USE ONLY Work Order # <u>7425128</u> Attach # <u>1</u>	
Address: <u>613 Baltimore Dr</u>		Sample Temp: <u> </u>		Matrix		Solid ☒ Water ☐ Other ☐							
Contact: <u>Dan Neale</u>		Project Name: <u>Regent</u>		Composite Start		GRAB -or- Composite End		Bottle Type/Comments		Tracking # <u>1</u> of <u>3</u>			
Phone #: <u>570-821-1994</u>		Quote/PO #: <u>2017-3071-003</u>		Start Date		End Date		End Time					
TAT: Normal ☒ Rush ☐		Rush TAT subject to pre-approval and surcharge.		Date Required: <u> </u>		GRAB		Composite		Remarks			
Sample Description/Location		Start Date		Start Time		End Date		End Time					
1 SB-016 23.5-24'		X				8/6/17		14:15		X		1-402	
2 SB-017 10-10.5'						8/6/17		14:40		X		2-Set Disc 1	
3 SB-018 21.5-22'						8/6/17		9:30		X		1-M 2014	
4 SB-019 18-18.5'								10:30		X			
5 SB-020A 14-14.5'								11:30		X			
6 SB-020B 23.5-24'								11:35		X			
7 SB-021 3-3.5'								13:15		X			
8 SB-022 15.5-16'								14:00		X			
9 SB-023 10-10.5'								15:00		X			
10 SB-024 19-19.5'						8/6/17		9:15		X			
11 SB-025A 6-6.5'		V						10:35		X			
Sampled by: <u>D. Neale</u>		Date: <u>8-23-17</u>		Time: <u>1300</u>		Received by: <u>D. Neale</u>		Date: <u>8-23-17</u>		Time: <u>1330</u>		Remarks	
Relinquished by: <u>B. Neale</u>		Date: <u>8-23-17</u>		Time: <u>1300</u>		Received by: <u>B. Neale</u>		Date: <u>8-23-17</u>		Time: <u>1500</u>			
Relinquished by: <u>B. Neale</u>		Date: <u>8-23-17</u>		Time: <u>1900</u>		Received by: <u>B. Neale</u>		Date: <u>8-23-17</u>		Time: <u>1900</u>			

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy



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Client Page # 2 of 2

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[illegible]

Chain of Custody Receiving Document

Page 3 of 3

#3

Receiver: CLDate/Time of this check: 8-25-17 20:15 Client: Robert Lawson Lab # 7H 25 128Received on ICE? ☒ * Sample Temperature when delivered to the Lab: 21 Acceptable? ☒ * or In cool down process? ☐ *
(Not applicable for WV compliance)*Custody Seals? no Intact? PLMCOC/Labels on bottles agree? ☒ * Correct containers for all the analysis requested? ☒ * Matrix: Solid

COC #	Number and Type of BOTTLES										Comments
	Poly Non-Pres.	Poly H2SO4	Poly HNO3	Amber H2SO4	Amber Non-Pres.	Poly NaOH	VOCS (Head space?)	Other	Properly Preserved	Bacti	
1							1 mesh 20 mesh 40 mesh	☐ *	☐ *		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											

* DEVIATION PRESENT:

- ☐ No Ice
☐ Not at Proper Temperature
☐ Wrong Container
☐ Missing Information:

CLIENT CALLED:

YES ()

By Whom:

Date:

CLIENT RESPONSE:

- ☐ Proceed with analysis; quality data
☐ Will Resample
☐ Provided Information
☐ No Response; Proceed and qualified

Client Contact: _____ Date: _____

* Comments:



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-027 8.5-9'	7H30162-01	Solid	Grab	08/25/17 13:40	08/30/17 18:15
SB-028 5.5-6'	7H30162-02	Solid	Grab	08/25/17 14:30	08/30/17 18:15
SB-029 5.5-6'	7H30162-03	Solid	Grab	08/28/17 09:15	08/30/17 18:15
SB-030 3.5-4'	7H30162-04	Solid	Grab	08/28/17 09:55	08/30/17 18:15
SB-031 21.5-22'	7H30162-05	Solid	Grab	08/28/17 11:15	08/30/17 18:15
SB-032 13-13.5'	7H30162-06	Solid	Grab	08/28/17 11:55	08/30/17 18:15
SB-033 12-12.5'	7H30162-07	Solid	Grab	08/28/17 12:45	08/30/17 18:15
SB-034 6.5-7'	7H30162-08	Solid	Grab	08/28/17 13:55	08/30/17 18:15
SB-035 3.5-4'	7H30162-09	Solid	Grab	08/28/17 14:50	08/30/17 18:15
SB-036 2-2.5'	7H30162-10	Solid	Grab	08/29/17 08:50	08/30/17 18:15
SB-037 8-8.5'	7H30162-11	Solid	Grab	08/29/17 09:45	08/30/17 18:15
SB-038 12.5-13'	7H30162-12	Solid	Grab	08/29/17 10:45	08/30/17 18:15
SB-039 6.5-7'	7H30162-13	Solid	Grab	08/29/17 12:20	08/30/17 18:15
SB-040 5.5-6'	7H30162-14	Solid	Grab	08/29/17 13:45	08/30/17 18:15
SB-041 2-2.5'	7H30162-15	Solid	Grab	08/29/17 14:20	08/30/17 18:15

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Reviewed and Submitted by:

Michael P. Tyler
Laboratory Director

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(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	90.0	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.97	1.97	mg/kg dry	09/13/17 20:34	EPA 6010B/2.0	sr	G
Arsenic	14.2	3.95	mg/kg dry	09/13/17 20:34	EPA 6010B/2.0	sr	G
Barium	115	4.93	mg/kg dry	09/13/17 20:32	EPA 6010B/2.0	sr	
Cadmium	<1.97	1.97	mg/kg dry	09/13/17 20:34	EPA 6010B/2.0	sr	
Chromium	15.2	2.47	mg/kg dry	09/13/17 20:34	EPA 6010B/2.0	sr	
Mercury	<0.0318	0.0318	mg/kg dry	09/05/17 13:43	EPA 7471B	jks	
Lead	13.7	3.95	mg/kg dry	09/13/17 20:34	EPA 6010B/2.0	sr	
Selenium	<9.87	9.87	mg/kg dry	09/13/17 20:34	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/06/17 10:59	EPA 8082	cdb	
PCB-1221	<0.011	0.011	mg/kg dry	09/06/17 10:59	EPA 8082	cdb	

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Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/06/17 10:59	EPA 8082	cdb	
PCB-1242	<0.011	0.011	mg/kg dry	09/06/17 10:59	EPA 8082	cdb	
PCB-1248	<0.011	0.011	mg/kg dry	09/06/17 10:59	EPA 8082	cdb	
PCB-1254	<0.011	0.011	mg/kg dry	09/06/17 10:59	EPA 8082	cdb	
PCB-1260	<0.011	0.011	mg/kg dry	09/06/17 10:59	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	89.8 %	11-140		09/06/17 10:59	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	91.4 %	24.4-140		09/06/17 10:59	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<0.739	0.739	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Diphenylamine	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Benzidine	<1.85	1.85	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Acenaphthene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Acenaphthylene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Anthracene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Benzoic acid	<3.69	3.69	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Benzo (a) anthracene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	H
Benzo (k) fluoranthene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Benzo (a) pyrene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Benzyl alcohol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
4-Chloroaniline	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
4-Chloro-3-methylphenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
2-Chloronaphthalene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
2-Chlorophenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Chrysene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Dibenzofuran	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F

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Reported:
09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Diethyl phthalate	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Dimethyl phthalate	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<1.85	1.85	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2,4-Dinitrophenol	<1.85	1.85	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Aniline	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Naphthalene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Acetophenone	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	

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09/14/17 14:36

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Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Fluoranthene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Fluorene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	H
Hexachlorobenzene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Hexachlorobutadiene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Hexachloroethane	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Isophorone	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2-Methylnaphthalene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2-Methylphenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2-Nitroaniline	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
3-Nitroaniline	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
4-Nitroaniline	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Nitrobenzene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2-Nitrophenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
4-Nitrophenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	

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89 Kristi Road
Pennssdale, PA 17756
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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.85	1.85	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Phenanthrene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Phenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
Pyrene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.369	0.369	mg/kg dry	09/05/17 18:05	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	121 %	10-169		09/05/17 18:05	EPA 8270D	cdb	
Surrogate: Phenol-d6	118 %	10-166		09/05/17 18:05	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	124 %	18.8-170		09/05/17 18:05	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	142 %	35.1-154		09/05/17 18:05	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	121 %	20-158		09/05/17 18:05	EPA 8270D	cdb	F
Surrogate: Terphenyl-d14	135 %	52.1-160		09/05/17 18:05	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc
Benzene	<0.0018	0.0018	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc
Toluene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc
Ethylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc

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Pennssdale, PA 17756
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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Naphthalene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Acrylonitrile	<0.0090	0.0090	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Bromobenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Bromochloromethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Bromodichloromethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Bromoform	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Bromomethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
sec-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
tert-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
n-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Carbon disulfide	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Chlorobenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Chloroethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Chloroform	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Chloromethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	E
4-Chlorotoluene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	

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89 Kristi Road
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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Dibromochloromethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0018	0.0018	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Dibromomethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0018	0.0018	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Methylene chloride	<0.0180	0.0180	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
n-Propylbenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Styrene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Tetrachloroethene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Trichloroethene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Client Sample ID: SB-027 8.5-9'

Date/Time Sampled: 08/25/17 13:40

Laboratory Sample ID: 7H30162-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0018	0.0018	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	E
o-Xylene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
m,p-Xylene	<0.0045	0.0045	mg/kg dry	09/01/17 21:26	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	95 %	70-130		09/01/17 21:26	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		09/01/17 21:26	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99 %	70-130		09/01/17 21:26	EPA 8260B	mtc	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	90.2	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.77	1.77	mg/kg dry	09/13/17 20:53	EPA 6010B/2.0	sr	G
Arsenic	37.3	3.54	mg/kg dry	09/13/17 20:53	EPA 6010B/2.0	sr	G
Barium	149	4.42	mg/kg dry	09/13/17 20:51	EPA 6010B/2.0	sr	
Cadmium	<1.77	1.77	mg/kg dry	09/13/17 20:53	EPA 6010B/2.0	sr	
Chromium	23.6	2.21	mg/kg dry	09/13/17 20:53	EPA 6010B/2.0	sr	
Mercury	0.325	0.0286	mg/kg dry	09/05/17 13:45	EPA 7471B	jks	
Lead	22.4	3.54	mg/kg dry	09/13/17 20:53	EPA 6010B/2.0	sr	
Selenium	<8.84	8.84	mg/kg dry	09/13/17 20:53	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.022	0.022	mg/kg dry	09/06/17 11:31	EPA 8082	cdb	
PCB-1221	<0.022	0.022	mg/kg dry	09/06/17 11:31	EPA 8082	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.022	0.022	mg/kg dry	09/06/17 11:31	EPA 8082	cdb	
PCB-1242	<0.022	0.022	mg/kg dry	09/06/17 11:31	EPA 8082	cdb	
PCB-1248	<0.022	0.022	mg/kg dry	09/06/17 11:31	EPA 8082	cdb	
PCB-1254	<0.022	0.022	mg/kg dry	09/06/17 11:31	EPA 8082	cdb	
PCB-1260	<0.022	0.022	mg/kg dry	09/06/17 11:31	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	81.6 %	11-140		09/06/17 11:31	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	80.4 %	24.4-140		09/06/17 11:31	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<21.5	21.5	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Benzidine	<53.8	53.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Diphenylamine	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Acenaphthene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Acenaphthylene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Anthracene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Benzoic acid	<108	108	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Benzo (a) anthracene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Benzo (b) fluoranthene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	H
Benzo (k) fluoranthene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Benzo (a) pyrene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Benzyl alcohol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Butyl benzyl phthalate	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
4-Chloroaniline	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
4-Chloro-3-methylphenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
2-Chloronaphthalene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
2-Chlorophenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Chrysene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Dibenzofuran	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Di-n-butyl phthalate	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
1,3-Dichlorobenzene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
1,4-Dichlorobenzene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2,4-Dichlorophenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Diethyl phthalate	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
2,4-Dimethylphenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Dimethyl phthalate	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<53.8	53.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2,4-Dinitrophenol	<53.8	53.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2,4-Dinitrotoluene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Di-n-octyl phthalate	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Aniline	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Naphthalene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
N-Nitrosodimethylamine	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Acetophenone	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
3 & 4-Methylphenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Fluoranthene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Fluorene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	H
Hexachlorobenzene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Hexachlorobutadiene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Hexachloroethane	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Isophorone	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2-Methylnaphthalene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2-Methylphenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2-Nitroaniline	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
3-Nitroaniline	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
4-Nitroaniline	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Nitrobenzene	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2-Nitrophenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
4-Nitrophenol	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<10.8	10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<53.8		53.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Phenanthrene	<10.8		10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Phenol	<10.8		10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
Pyrene	<10.8		10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<10.8		10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<10.8		10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<10.8		10.8	mg/kg dry	09/05/17 18:32	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	123 %		10-169		09/05/17 18:32	EPA 8270D	cdb	
Surrogate: Phenol-d6	121 %		10-166		09/05/17 18:32	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	129 %		18.8-170		09/05/17 18:32	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	148 %		35.1-154		09/05/17 18:32	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	124 %		20-158		09/05/17 18:32	EPA 8270D	cdb	F
Surrogate: Terphenyl-d14	137 %		52.1-160		09/05/17 18:32	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Benzene	<0.0019	0.0019	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Toluene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Ethylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Naphthalene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Acrylonitrile	<0.0095	0.0095	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Bromobenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Bromochloromethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Bromodichloromethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Bromoform	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Bromomethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
sec-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
tert-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
n-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Carbon disulfide	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Chlorobenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Chloroethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Chloroform	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Chloromethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	E
4-Chlorotoluene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Dibromochloromethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0019	0.0019	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Dibromomethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0019	0.0019	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Methylene chloride	<0.0190	0.0190	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
n-Propylbenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Styrene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Tetrachloroethene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Trichloroethene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-028 5.5-6'

Date/Time Sampled: 08/25/17 14:30

Laboratory Sample ID: 7H30162-02 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0019	0.0019	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	E
o-Xylene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
m,p-Xylene	<0.0048	0.0048	mg/kg dry	09/01/17 22:05	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	82 %	70-130		09/01/17 22:05	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	127 %	70-130		09/01/17 22:05	EPA 8260B	mtc	
Surrogate: Fluorobenzene	88 %	70-130		09/01/17 22:05	EPA 8260B	mtc	

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-029 5.5-6'

Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	86.3	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.18	2.18	mg/kg dry	09/13/17 20:59	EPA 6010B/2.0	sr	G
Arsenic	46.2	4.35	mg/kg dry	09/13/17 20:59	EPA 6010B/2.0	sr	G
Barium	197	5.44	mg/kg dry	09/13/17 20:57	EPA 6010B/2.0	sr	
Cadmium	<2.18	2.18	mg/kg dry	09/13/17 20:59	EPA 6010B/2.0	sr	
Chromium	36.1	2.72	mg/kg dry	09/13/17 20:59	EPA 6010B/2.0	sr	
Mercury	0.435	0.0327	mg/kg dry	09/05/17 13:46	EPA 7471B	jks	
Lead	24.5	4.35	mg/kg dry	09/13/17 20:59	EPA 6010B/2.0	sr	
Selenium	<10.9	10.9	mg/kg dry	09/13/17 20:59	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/06/17 12:04	EPA 8082	cdb	
PCB-1221	<0.011	0.011	mg/kg dry	09/06/17 12:04	EPA 8082	cdb	

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(814) 946-4306
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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-029 5.5-6'

Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/06/17 12:04	EPA 8082	cdb	
PCB-1242	<0.011	0.011	mg/kg dry	09/06/17 12:04	EPA 8082	cdb	
PCB-1248	<0.011	0.011	mg/kg dry	09/06/17 12:04	EPA 8082	cdb	
PCB-1254	<0.011	0.011	mg/kg dry	09/06/17 12:04	EPA 8082	cdb	
PCB-1260	<0.011	0.011	mg/kg dry	09/06/17 12:04	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	76.5 %	11-140		09/06/17 12:04	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	85.3 %	24.4-140		09/06/17 12:04	EPA 8082	cdb	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzidine	<3.83	3.83	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Diphenylamine	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Pyridine	<1.53	1.53	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Acenaphthene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Acenaphthylene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Anthracene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Benzoic acid	<7.66	7.66	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Benzo (a) anthracene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	H
Benzo (k) fluoranthene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
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Project: PAGNOTTI
Project Number: [none]
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Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-029 5.5-6'

Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Benzo (a) pyrene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Benzyl alcohol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
4-Chloroaniline	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
4-Chloro-3-methylphenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
2-Chloronaphthalene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
2-Chlorophenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Chrysene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Dibenzofuran	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F

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Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Diethyl phthalate	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Dimethyl phthalate	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<3.83	3.83	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2,4-Dinitrophenol	<3.83	3.83	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Aniline	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Naphthalene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Acetophenone	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Fluoranthene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Fluorene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	H
Hexachlorobenzene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Hexachlorobutadiene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Hexachloroethane	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Isophorone	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2-Methylnaphthalene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2-Methylphenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2-Nitroaniline	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
3-Nitroaniline	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
4-Nitroaniline	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Nitrobenzene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2-Nitrophenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
4-Nitrophenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	

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Borton-Lawson

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Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

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Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<3.83	3.83	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Phenanthrene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Phenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
Pyrene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.766	0.766	mg/kg dry	09/05/17 18:59	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	116 %	10-169		09/05/17 18:59	EPA 8270D	cdb	
Surrogate: Phenol-d6	116 %	10-166		09/05/17 18:59	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	121 %	18.8-170		09/05/17 18:59	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	136 %	35.1-154		09/05/17 18:59	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	116 %	20-158		09/05/17 18:59	EPA 8270D	cdb	F
Surrogate: Terphenyl-d14	122 %	52.1-160		09/05/17 18:59	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Benzene	<0.0023	0.0023	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Toluene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Ethylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-029 5.5-6'

Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Naphthalene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	K
Acrylonitrile	<0.0116	0.0116	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Bromobenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Bromochloromethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Bromodichloromethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Bromoform	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Bromomethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
sec-Butylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
tert-Butylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
n-Butylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Carbon disulfide	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Chlorobenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Chloroethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Chloroform	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Chloromethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	E
4-Chlorotoluene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-029 5.5-6'

Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Dibromochloromethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0023	0.0023	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Dibromomethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0023	0.0023	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-029 5.5-6'

Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Methylene chloride	<0.0233	0.0233	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
n-Propylbenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Styrene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Tetrachloroethene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Trichloroethene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	

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Reported:
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Client Sample ID: SB-029 5.5-6'

Date/Time Sampled: 08/28/17 09:15

Laboratory Sample ID: 7H30162-03 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0023	0.0023	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	E
o-Xylene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
m,p-Xylene	<0.0058	0.0058	mg/kg dry	09/01/17 22:43	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	85 %	70-130		09/01/17 22:43	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	120 %	70-130		09/01/17 22:43	EPA 8260B	mtc	
Surrogate: Fluorobenzene	93 %	70-130		09/01/17 22:43	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	80.5	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.28	2.28	mg/kg dry	09/13/17 21:05	EPA 6010B/2.0	sr	G
Arsenic	18.5	4.56	mg/kg dry	09/13/17 21:06	EPA 6010B/2.0	sr	G
Barium	152	5.70	mg/kg dry	09/13/17 21:04	EPA 6010B/2.0	sr	
Cadmium	<2.28	2.28	mg/kg dry	09/13/17 21:06	EPA 6010B/2.0	sr	
Chromium	14.9	2.85	mg/kg dry	09/13/17 21:06	EPA 6010B/2.0	sr	
Mercury	<0.0351	0.0351	mg/kg dry	09/05/17 13:48	EPA 7471B	jks	
Lead	18.4	4.56	mg/kg dry	09/13/17 21:06	EPA 6010B/2.0	sr	
Selenium	<11.4	11.4	mg/kg dry	09/13/17 21:06	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.012	0.012	mg/kg dry	09/06/17 12:36	EPA 8082	cdh	
PCB-1221	<0.012	0.012	mg/kg dry	09/06/17 12:36	EPA 8082	cdh	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.012	0.012	mg/kg dry	09/06/17 12:36	EPA 8082	cdb	
PCB-1242	<0.012	0.012	mg/kg dry	09/06/17 12:36	EPA 8082	cdb	
PCB-1248	<0.012	0.012	mg/kg dry	09/06/17 12:36	EPA 8082	cdb	
PCB-1254	<0.012	0.012	mg/kg dry	09/06/17 12:36	EPA 8082	cdb	
PCB-1260	<0.012	0.012	mg/kg dry	09/06/17 12:36	EPA 8082	cdb	
Surrogate: Tetrachloro-meta-xylene	87.0 %	11-140		09/06/17 12:36	EPA 8082	cdb	
Surrogate: Decachlorobiphenyl	91.6 %	24.4-140		09/06/17 12:36	EPA 8082	cdb	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Benzidine	<2.07	2.07	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Pyridine	<0.827	0.827	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Acenaphthene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Acenaphthylene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Anthracene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Benzoic acid	<4.13	4.13	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Benzo (a) anthracene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Benzo (b) fluoranthene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	H
Benzo (k) fluoranthene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Benzo (a) pyrene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Benzyl alcohol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Butyl benzyl phthalate	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
4-Chloroaniline	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
4-Chloro-3-methylphenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
2-Chloronaphthalene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
2-Chlorophenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Chrysene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Dibenzofuran	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Di-n-butyl phthalate	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
1,3-Dichlorobenzene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
1,4-Dichlorobenzene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2,4-Dichlorophenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Diethyl phthalate	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
2,4-Dimethylphenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Dimethyl phthalate	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<2.07	2.07	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2,4-Dinitrophenol	<2.07	2.07	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2,4-Dinitrotoluene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Di-n-octyl phthalate	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Aniline	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Naphthalene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
N-Nitrosodimethylamine	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
3 & 4-Methylphenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Acetophenone	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	

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Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Fluoranthene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Fluorene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	H
Hexachlorobenzene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Hexachlorobutadiene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Hexachloroethane	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Isophorone	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2-Methylnaphthalene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2-Methylphenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2-Nitroaniline	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
3-Nitroaniline	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
4-Nitroaniline	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Nitrobenzene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2-Nitrophenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
4-Nitrophenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	

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09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.07	2.07	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Phenanthrene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Phenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
Pyrene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<0.413	0.413	mg/kg dry	09/05/17 19:26	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	122 %	10-169		09/05/17 19:26	EPA 8270D	cdb	
Surrogate: Phenol-d6	121 %	10-166		09/05/17 19:26	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	128 %	18.8-170		09/05/17 19:26	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	142 %	35.1-154		09/05/17 19:26	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	120 %	20-158		09/05/17 19:26	EPA 8270D	cdb	F
Surrogate: Terphenyl-d14	135 %	52.1-160		09/05/17 19:26	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc
Benzene	<0.0021	0.0021	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc
Toluene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc
Ethylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Methyl tert-butyl ether	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Naphthalene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Acrylonitrile	<0.0105	0.0105	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Bromobenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Bromochloromethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Bromodichloromethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Bromoform	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Bromomethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
sec-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
tert-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
n-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Carbon disulfide	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Chlorobenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Chloroethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Chloroform	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Chloromethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	E
4-Chlorotoluene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Dibromochloromethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0021	0.0021	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Dibromomethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0021	0.0021	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	

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Reported:
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Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Hexachlorobutadiene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
p-Isopropyltoluene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Methylene chloride	<0.0211	0.0211	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
n-Propylbenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Styrene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	I
1,1,2,2-Tetrachloroethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Tetrachloroethene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Trichloroethene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Trichlorofluoromethane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	

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Reported:
09/14/17 14:36

Client Sample ID: SB-030 3.5-4'

Date/Time Sampled: 08/28/17 09:55

Laboratory Sample ID: 7H30162-04 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0021	0.0021	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	E
o-Xylene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
m,p-Xylene	<0.0053	0.0053	mg/kg dry	09/01/17 23:59	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	102 %	70-130		09/01/17 23:59	EPA 8260B	mtc	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/01/17 23:59	EPA 8260B	mtc	
Surrogate: Fluorobenzene	99 %	70-130		09/01/17 23:59	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	88.7	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.87	1.87	mg/kg dry	09/13/17 21:13	EPA 6010B/2.0	sr	G
Arsenic	12.9	3.73	mg/kg dry	09/13/17 21:13	EPA 6010B/2.0	sr	G
Barium	25.5	4.66	mg/kg dry	09/13/17 21:11	EPA 6010B/2.0	sr	
Cadmium	<1.87	1.87	mg/kg dry	09/13/17 21:13	EPA 6010B/2.0	sr	
Chromium	8.02	2.33	mg/kg dry	09/13/17 21:13	EPA 6010B/2.0	sr	
Mercury	<0.0304	0.0304	mg/kg dry	09/05/17 13:50	EPA 7471B	jks	
Lead	10.8	3.73	mg/kg dry	09/13/17 21:13	EPA 6010B/2.0	sr	
Selenium	<9.33	9.33	mg/kg dry	09/13/17 21:13	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/07/17 17:12	EPA 8082	rsr	
PCB-1221	<0.011	0.011	mg/kg dry	09/07/17 17:12	EPA 8082	rsr	

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Reported:

09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/07/17 17:12	EPA 8082	rsr	
PCB-1242	<0.011	0.011	mg/kg dry	09/07/17 17:12	EPA 8082	rsr	
PCB-1248	<0.011	0.011	mg/kg dry	09/07/17 17:12	EPA 8082	rsr	
PCB-1254	<0.011	0.011	mg/kg dry	09/07/17 17:12	EPA 8082	rsr	
PCB-1260	<0.011	0.011	mg/kg dry	09/07/17 17:12	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	85.1 %	11-140		09/07/17 17:12	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	98.8 %	24.4-140		09/07/17 17:12	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzidine	<5.59	5.59	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Diphenylamine	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Pyridine	<2.23	2.23	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Acenaphthene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Acenaphthylene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Anthracene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Benzoic acid	<11.2	11.2	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Benzo (a) anthracene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Benzo (b) fluoranthene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	H
Benzo (k) fluoranthene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Benzo (a) pyrene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Benzyl alcohol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Bis(2-chloroethoxy)methane	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Bis(2-chloroethyl)ether	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Bis(2-chloroisopropyl)ether	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Bis(2-ethylhexyl)phthalate	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
4-Bromophenyl phenyl ether	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Butyl benzyl phthalate	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
4-Chloroaniline	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
4-Chloro-3-methylphenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
2-Chloronaphthalene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
2-Chlorophenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
4-Chlorophenyl phenyl ether	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Chrysene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Dibenz (a,h) anthracene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Dibenzofuran	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Di-n-butyl phthalate	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F

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Project Number: [none]
Collector: CLIENT
Number of Containers: 60
Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
1,3-Dichlorobenzene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
1,4-Dichlorobenzene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
3,3'-Dichlorobenzidine	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2,4-Dichlorophenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Diethyl phthalate	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
2,4-Dimethylphenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Dimethyl phthalate	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
4,6-Dinitro-2-methylphenol	<5.59	5.59	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2,4-Dinitrophenol	<5.59	5.59	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2,4-Dinitrotoluene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
2,6-Dinitrotoluene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Di-n-octyl phthalate	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Aniline	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Naphthalene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
N-Nitrosodimethylamine	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Acetophenone	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
3 & 4-Methylphenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	

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Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Fluoranthene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Fluorene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	H
Hexachlorobenzene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Hexachlorobutadiene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Hexachlorocyclopentadiene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Hexachloroethane	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Indeno (1,2,3-cd) pyrene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Isophorone	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2-Methylnaphthalene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2-Methylphenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2-Nitroaniline	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
3-Nitroaniline	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
4-Nitroaniline	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Nitrobenzene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2-Nitrophenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
4-Nitrophenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
N-Nitrosodi-n-propylamine	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<5.59	5.59	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Phenanthrene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Phenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
Pyrene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
1,2,4-Trichlorobenzene	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	
2,4,5-Trichlorophenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
2,4,6-Trichlorophenol	<1.12	1.12	mg/kg dry	09/05/17 19:53	EPA 8270D	cdb	F
Surrogate: 2-Fluorophenol	120 %	10-169		09/05/17 19:53	EPA 8270D	cdb	
Surrogate: Phenol-d6	118 %	10-166		09/05/17 19:53	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5	124 %	18.8-170		09/05/17 19:53	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl	141 %	35.1-154		09/05/17 19:53	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol	122 %	20-158		09/05/17 19:53	EPA 8270D	cdb	F
Surrogate: Terphenyl-d14	136 %	52.1-160		09/05/17 19:53	EPA 8270D	cdb	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Benzene	<0.0016	0.0016	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Toluene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Ethylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Naphthalene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Acrylonitrile	<0.0079	0.0079	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Bromobenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Bromochloromethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Bromodichloromethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Bromoform	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Bromomethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
sec-Butylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
tert-Butylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
n-Butylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Carbon disulfide	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Chlorobenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Chloroethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Chloroform	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Chloromethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
4-Chlorotoluene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
Dibromochloromethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0016	0.0016	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
Dibromomethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0016	0.0016	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Project Number: [none]
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Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

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Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,1-Dichloropropene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Hexachlorobutadiene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
p-Isopropyltoluene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Methylene chloride	<0.0157	0.0157	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
n-Propylbenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Styrene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Tetrachloroethene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Trichloroethene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Trichlorofluoromethane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc

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Project Number: [none]
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Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-031 21.5-22'

Date/Time Sampled: 08/28/17 11:15

Laboratory Sample ID: 7H30162-05 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0016	0.0016	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
o-Xylene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
m,p-Xylene	<0.0039	0.0039	mg/kg dry	09/02/17 06:54	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	104 %	70-130		09/02/17 06:54	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		09/02/17 06:54	EPA 8260B	mtc
Surrogate: Fluorobenzene	98 %	70-130		09/02/17 06:54	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-032 13-13.5'

Date/Time Sampled: 08/28/17 11:55

Laboratory Sample ID: 7H30162-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	82.1	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.92	1.92	mg/kg dry	09/13/17 21:19	EPA 6010B/2.0	sr	G
Arsenic	22.2	3.85	mg/kg dry	09/13/17 21:19	EPA 6010B/2.0	sr	G
Barium	148	4.81	mg/kg dry	09/13/17 21:17	EPA 6010B/2.0	sr	
Cadmium	<1.92	1.92	mg/kg dry	09/13/17 21:19	EPA 6010B/2.0	sr	
Chromium	21.9	2.41	mg/kg dry	09/13/17 21:19	EPA 6010B/2.0	sr	
Mercury	0.465	0.0351	mg/kg dry	09/05/17 13:51	EPA 7471B	jks	
Lead	21.1	3.85	mg/kg dry	09/13/17 21:19	EPA 6010B/2.0	sr	
Selenium	<9.62	9.62	mg/kg dry	09/13/17 21:19	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.023	0.023	mg/kg dry	09/07/17 13:05	EPA 8082	rsr	
PCB-1221	<0.023	0.023	mg/kg dry	09/07/17 13:05	EPA 8082	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-032 13-13.5'

Date/Time Sampled: 08/28/17 11:55

Laboratory Sample ID: 7H30162-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.023	0.023	mg/kg dry	09/07/17 13:05	EPA 8082	rsr	
PCB-1242	<0.023	0.023	mg/kg dry	09/07/17 13:05	EPA 8082	rsr	
PCB-1248	<0.023	0.023	mg/kg dry	09/07/17 13:05	EPA 8082	rsr	
PCB-1254	<0.023	0.023	mg/kg dry	09/07/17 13:05	EPA 8082	rsr	
PCB-1260	<0.023	0.023	mg/kg dry	09/07/17 13:05	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	71.7 %	11-140		09/07/17 13:05	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	79.3 %	24.4-140		09/07/17 13:05	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pyridine	<2.34	2.34	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Diphenylamine	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Benzidine	<5.84	5.84	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Acenaphthene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Acenaphthylene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Anthracene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Benzoic acid	<11.7	11.7	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
Benzo (a) anthracene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Benzo (b) fluoranthene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	D, F, H
Benzo (k) fluoranthene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	D, F, H

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Altoona, PA 16603
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NELAP: PA 07-062, VA 460212

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Pennssdale, PA 17756
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Client Sample ID: SB-032 13-13.5'

Date/Time Sampled: 08/28/17 11:55

Laboratory Sample ID: 7H30162-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	D, F, H
Benzo (a) pyrene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	D, F, H
Benzyl alcohol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
Bis(2-chloroethoxy)methane	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
Bis(2-chloroethyl)ether	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
4-Bromophenyl phenyl ether	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Butyl benzyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
4-Chloroaniline	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
4-Chloro-3-methylphenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
2-Chloronaphthalene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
2-Chlorophenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
4-Chlorophenyl phenyl ether	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Chrysene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Dibenz (a,h) anthracene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	D, F, H
Dibenzofuran	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Di-n-butyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H

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PaDEP: PA 41-04684



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Project: PAGNOTTI
Project Number: [none]
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Reported:
09/14/17 14:36

Client Sample ID: SB-032 13-13.5'

Date/Time Sampled: 08/28/17 11:55

Laboratory Sample ID: 7H30162-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
1,3-Dichlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
1,4-Dichlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
2,4-Dichlorophenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Diethyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
2,4-Dimethylphenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Dimethyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
4,6-Dinitro-2-methylphenol	<5.84	5.84	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
2,4-Dinitrophenol	<5.84	5.84	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
2,4-Dinitrotoluene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
2,6-Dinitrotoluene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Di-n-octyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	D, F, H
Aniline	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Naphthalene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
N-Nitrosodimethylamine	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
3 & 4-Methylphenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Acetophenone	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	

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Number of Containers: 60

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Fluoranthene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Fluorene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Hexachlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Hexachlorobutadiene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
Hexachlorocyclopentadiene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
Hexachloroethane	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	D, F, H
Isophorone	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
2-Methylnaphthalene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
2-Methylphenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
2-Nitroaniline	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
3-Nitroaniline	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
4-Nitroaniline	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Nitrobenzene	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
2-Nitrophenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
4-Nitrophenol	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
N-Nitrosodi-n-propylamine	<1.17	1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	

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PaDEP: PA 41-04684



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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<5.84		5.84	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Phenanthrene	<1.17		1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H, F
Phenol	<1.17		1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	
Pyrene	<1.17		1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
1,2,4-Trichlorobenzene	<1.17		1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	H
2,4,5-Trichlorophenol	<1.17		1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
2,4,6-Trichlorophenol	<1.17		1.17	mg/kg dry	09/08/17 00:48	EPA 8270D	rsr	F, H
Surrogate: 2-Fluorophenol	128 %		10-169		09/08/17 00:48	EPA 8270D	rsr	
Surrogate: Phenol-d6	125 %		10-166		09/08/17 00:48	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	132 %		18.8-170		09/08/17 00:48	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	153 %		35.1-154		09/08/17 00:48	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	132 %		20-158		09/08/17 00:48	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	141 %		52.1-160		09/08/17 00:48	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

15

1,3,5-Trimethylbenzene	<0.0045		0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0045		0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
Benzene	<0.0018		0.0018	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
Toluene	<0.0045		0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
Ethylbenzene	<0.0045		0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-032 13-13.5'

Date/Time Sampled: 08/28/17 11:55

Laboratory Sample ID: 7H30162-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Isopropylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Naphthalene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Acrylonitrile	<0.0090	0.0090	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Bromobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Bromochloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Bromodichloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Bromoform	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Bromomethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
sec-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
tert-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
n-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Carbon disulfide	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Chlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Chloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Chloroform	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Chloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
4-Chlorotoluene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc

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Pennssdale, PA 17756
(570) 494-6380
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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-032 13-13.5'

Date/Time Sampled: 08/28/17 11:55

Laboratory Sample ID: 7H30162-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

2-Chlorotoluene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
Dibromochloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0018	0.0018	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
Dibromomethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0018	0.0018	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc	

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Project Number: [none]
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Volatile Organic Compounds by EPA Method 8260B

15

trans-1,3-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,1-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Hexachlorobutadiene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
p-Isopropyltoluene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Methylene chloride	<0.0181	0.0181	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
n-Propylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Styrene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Tetrachloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Trichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Trichlorofluoromethane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-032 13-13.5'

Date/Time Sampled: 08/28/17 11:55

Laboratory Sample ID: 7H30162-06 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

15

Vinyl chloride	<0.0018	0.0018	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
o-Xylene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
m,p-Xylene	<0.0045	0.0045	mg/kg dry	09/02/17 07:32	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	87 %	70-130		09/02/17 07:32	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		09/02/17 07:32	EPA 8260B	mtc
Surrogate: Fluorobenzene	99 %	70-130		09/02/17 07:32	EPA 8260B	mtc

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	84.0	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.11	2.11	mg/kg dry	09/13/17 21:25	EPA 6010B/2.0	sr	G
Arsenic	33.7	4.21	mg/kg dry	09/13/17 21:26	EPA 6010B/2.0	sr	G
Barium	205	5.27	mg/kg dry	09/13/17 21:24	EPA 6010B/2.0	sr	
Cadmium	<2.11	2.11	mg/kg dry	09/13/17 21:26	EPA 6010B/2.0	sr	
Chromium	32.9	2.63	mg/kg dry	09/13/17 21:26	EPA 6010B/2.0	sr	
Mercury	0.280	0.0301	mg/kg dry	09/05/17 13:53	EPA 7471B	jks	
Lead	27.0	4.21	mg/kg dry	09/13/17 21:26	EPA 6010B/2.0	sr	
Selenium	<10.5	10.5	mg/kg dry	09/13/17 21:26	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.012	0.012	mg/kg dry	09/07/17 13:37	EPA 8082	rsr	
PCB-1221	<0.012	0.012	mg/kg dry	09/07/17 13:37	EPA 8082	rsr	

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Reported:
09/14/17 14:36

Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.012	0.012	mg/kg dry	09/07/17 13:37	EPA 8082	rsr	
PCB-1242	<0.012	0.012	mg/kg dry	09/07/17 13:37	EPA 8082	rsr	
PCB-1248	<0.012	0.012	mg/kg dry	09/07/17 13:37	EPA 8082	rsr	
PCB-1254	<0.012	0.012	mg/kg dry	09/07/17 13:37	EPA 8082	rsr	
PCB-1260	<0.012	0.012	mg/kg dry	09/07/17 13:37	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	96.7 %	11-140		09/07/17 13:37	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	105 %	24.4-140		09/07/17 13:37	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<1.57	1.57	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Diphenylamine	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Benzidine	<3.92	3.92	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Acenaphthene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Acenaphthylene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Anthracene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Benzoic acid	<7.83	7.83	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Benzo (a) anthracene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	D, F

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	D, F
Benzyl alcohol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Butyl benzyl phthalate	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
4-Chloroaniline	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
2-Chloronaphthalene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
2-Chlorophenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Chrysene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	D, F
Dibenzofuran	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Di-n-butyl phthalate	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F

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Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

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Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
1,3-Dichlorobenzene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
1,4-Dichlorobenzene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
2,4-Dichlorophenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Diethyl phthalate	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
2,4-Dimethylphenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Dimethyl phthalate	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<3.92	3.92	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
2,4-Dinitrophenol	<3.92	3.92	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
2,4-Dinitrotoluene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F
Di-n-octyl phthalate	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	D, F
Aniline	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Naphthalene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
N-Nitrosodimethylamine	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
3 & 4-Methylphenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Acetophenone	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Fluoranthene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
Fluorene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
Hexachlorobenzene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
Hexachlorobutadiene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	H
Hexachlorocyclopentadiene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	H
Hexachloroethane	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	D, F, H
Isophorone	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	H
2-Methylnaphthalene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
2-Methylphenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
2-Nitroaniline	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
3-Nitroaniline	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
4-Nitroaniline	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
Nitrobenzene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	H
2-Nitrophenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	H
4-Nitrophenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
N-Nitrosodi-n-propylamine	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<3.92	3.92	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Phenanthrene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
Phenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	
Pyrene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	H, F
1,2,4-Trichlorobenzene	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	H
2,4,5-Trichlorophenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
2,4,6-Trichlorophenol	<0.783	0.783	mg/kg dry	09/08/17 02:08	EPA 8270D	rsr	F, H
Surrogate: 2-Fluorophenol	119 %	10-169		09/08/17 02:08	EPA 8270D	rsr	
Surrogate: Phenol-d6	118 %	10-166		09/08/17 02:08	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	122 %	18.8-170		09/08/17 02:08	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	145 %	35.1-154		09/08/17 02:08	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	118 %	20-158		09/08/17 02:08	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	129 %	52.1-160		09/08/17 02:08	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
Benzene	<0.0019	0.0019	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
Toluene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
Ethylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Naphthalene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Acrylonitrile	<0.0095	0.0095	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Bromobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Bromochloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Bromodichloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Bromoform	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Bromomethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
sec-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
tert-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
n-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Carbon disulfide	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Chlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Chloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Chloroform	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Chloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
4-Chlorotoluene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc

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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-033 12-12.5'

Date/Time Sampled: 08/28/17 12:45

Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
Dibromochloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0019	0.0019	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
Dibromomethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0019	0.0019	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc	

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Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,1-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Hexachlorobutadiene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
p-Isopropyltoluene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Methylene chloride	<0.0190	0.0190	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
n-Propylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Styrene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Tetrachloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Trichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Trichlorofluoromethane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc

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Laboratory Sample ID: 7H30162-07 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0019	0.0019	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
o-Xylene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
m,p-Xylene	<0.0048	0.0048	mg/kg dry	09/02/17 08:09	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	83 %	70-130		09/02/17 08:09	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	130 %	70-130		09/02/17 08:09	EPA 8260B	mtc
Surrogate: Fluorobenzene	94 %	70-130		09/02/17 08:09	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	86.7	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.85	1.85	mg/kg dry	09/13/17 21:33	EPA 6010B/2.0	sr	G
Arsenic	15.0	3.71	mg/kg dry	09/13/17 21:33	EPA 6010B/2.0	sr	G
Barium	122	4.63	mg/kg dry	09/13/17 21:31	EPA 6010B/2.0	sr	
Cadmium	<1.85	1.85	mg/kg dry	09/13/17 21:33	EPA 6010B/2.0	sr	
Chromium	17.5	2.32	mg/kg dry	09/13/17 21:33	EPA 6010B/2.0	sr	
Mercury	0.326	0.0301	mg/kg dry	09/05/17 13:55	EPA 7471B	jks	H
Lead	30.0	3.71	mg/kg dry	09/13/17 21:33	EPA 6010B/2.0	sr	
Selenium	<9.27	9.27	mg/kg dry	09/13/17 21:33	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.023	0.023	mg/kg dry	09/07/17 14:09	EPA 8082	rsr	
PCB-1221	<0.023	0.023	mg/kg dry	09/07/17 14:09	EPA 8082	rsr	

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Reported:
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Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.023	0.023	mg/kg dry	09/07/17 14:09	EPA 8082	rsr	
PCB-1242	<0.023	0.023	mg/kg dry	09/07/17 14:09	EPA 8082	rsr	
PCB-1248	<0.023	0.023	mg/kg dry	09/07/17 14:09	EPA 8082	rsr	
PCB-1254	<0.023	0.023	mg/kg dry	09/07/17 14:09	EPA 8082	rsr	
PCB-1260	<0.023	0.023	mg/kg dry	09/07/17 14:09	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	102 %	11-140		09/07/17 14:09	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	116 %	24.4-140		09/07/17 14:09	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<2.26	2.26	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Diphenylamine	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Benzidine	<5.65	5.65	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Acenaphthene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Acenaphthylene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Anthracene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Benzoic acid	<11.3	11.3	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Benzo (a) anthracene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	D, F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	D, F
Benzyl alcohol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Butyl benzyl phthalate	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
4-Chloroaniline	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
2-Chloronaphthalene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
2-Chlorophenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Chrysene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	D, F
Dibenzofuran	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Di-n-butyl phthalate	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F

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Reported:
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Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
1,3-Dichlorobenzene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
1,4-Dichlorobenzene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
2,4-Dichlorophenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Diethyl phthalate	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
2,4-Dimethylphenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Dimethyl phthalate	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<5.65	5.65	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
2,4-Dinitrophenol	<5.65	5.65	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
2,4-Dinitrotoluene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F
Di-n-octyl phthalate	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	D, F
Aniline	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Naphthalene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
N-Nitrosodimethylamine	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Acetophenone	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
3 & 4-Methylphenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Fluoranthene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
Fluorene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
Hexachlorobenzene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
Hexachlorobutadiene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	H
Hexachlorocyclopentadiene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	H
Hexachloroethane	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	D, F, H
Isophorone	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	H
2-Methylnaphthalene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
2-Methylphenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
2-Nitroaniline	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
3-Nitroaniline	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
4-Nitroaniline	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
Nitrobenzene	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	H
2-Nitrophenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	H
4-Nitrophenol	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
N-Nitrosodi-n-propylamine	<1.13	1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	

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NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<5.65		5.65	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Phenanthrene	<1.13		1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
Phenol	<1.13		1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	
Pyrene	<1.13		1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
1,2,4-Trichlorobenzene	<1.13		1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	H
2,4,5-Trichlorophenol	<1.13		1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
2,4,6-Trichlorophenol	<1.13		1.13	mg/kg dry	09/08/17 02:34	EPA 8270D	rsr	F, H
Surrogate: 2-Fluorophenol	116 %		10-169		09/08/17 02:34	EPA 8270D	rsr	
Surrogate: Phenol-d6	116 %		10-166		09/08/17 02:34	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	117 %		18.8-170		09/08/17 02:34	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	141 %		35.1-154		09/08/17 02:34	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	117 %		20-158		09/08/17 02:34	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	133 %		52.1-160		09/08/17 02:34	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0053		0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0053		0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
Benzene	<0.0021		0.0021	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
Toluene	<0.0053		0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
Ethylbenzene	<0.0053		0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	

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Project: PAGNOTTI
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Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Naphthalene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Acrylonitrile	<0.0105	0.0105	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Bromobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Bromochloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Bromodichloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Bromoform	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Bromomethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
sec-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
tert-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
n-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Carbon disulfide	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Chlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Chloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Chloroform	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Chloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
4-Chlorotoluene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
Dibromochloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0021	0.0021	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
Dibromomethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0021	0.0021	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc	

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Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,1-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Hexachlorobutadiene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
p-Isopropyltoluene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Methylene chloride	<0.0211	0.0211	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
n-Propylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Styrene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Tetrachloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Trichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Trichlorofluoromethane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-034 6.5-7'

Date/Time Sampled: 08/28/17 13:55

Laboratory Sample ID: 7H30162-08 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0021	0.0021	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
o-Xylene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
m,p-Xylene	<0.0053	0.0053	mg/kg dry	09/02/17 08:47	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	93 %	70-130		09/02/17 08:47	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		09/02/17 08:47	EPA 8260B	mtc
Surrogate: Fluorobenzene	100 %	70-130		09/02/17 08:47	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-035 3.5-4'

Date/Time Sampled: 08/28/17 14:50

Laboratory Sample ID: 7H30162-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	84.3	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.83	1.83	mg/kg dry	09/13/17 21:40	EPA 6010B/2.0	sr	G
Arsenic	28.2	3.65	mg/kg dry	09/13/17 21:40	EPA 6010B/2.0	sr	G
Barium	56.0	4.56	mg/kg dry	09/13/17 21:38	EPA 6010B/2.0	sr	
Cadmium	<1.83	1.83	mg/kg dry	09/13/17 21:40	EPA 6010B/2.0	sr	
Chromium	6.82	2.28	mg/kg dry	09/13/17 21:40	EPA 6010B/2.0	sr	
Mercury	0.126	0.0342	mg/kg dry	09/05/17 14:01	EPA 7471B	jks	
Lead	25.4	3.65	mg/kg dry	09/13/17 21:40	EPA 6010B/2.0	sr	
Selenium	<9.13	9.13	mg/kg dry	09/13/17 21:40	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.023	0.023	mg/kg dry	09/07/17 14:41	EPA 8082	rsr	
PCB-1221	<0.023	0.023	mg/kg dry	09/07/17 14:41	EPA 8082	rsr	

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Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Client Sample ID: SB-035 3.5-4'

Date/Time Sampled: 08/28/17 14:50

Laboratory Sample ID: 7H30162-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.023	0.023	mg/kg dry	09/07/17 14:41	EPA 8082	rsr	
PCB-1242	<0.023	0.023	mg/kg dry	09/07/17 14:41	EPA 8082	rsr	
PCB-1248	<0.023	0.023	mg/kg dry	09/07/17 14:41	EPA 8082	rsr	
PCB-1254	<0.023	0.023	mg/kg dry	09/07/17 14:41	EPA 8082	rsr	
PCB-1260	<0.023	0.023	mg/kg dry	09/07/17 14:41	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	106 %	11-140		09/07/17 14:41	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	119 %	24.4-140		09/07/17 14:41	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Benzidine	<3.83	3.83	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Pyridine	<1.53	1.53	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Acenaphthene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Acenaphthylene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Anthracene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Benzoic acid	<7.66	7.66	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Benzo (a) anthracene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	D, F

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Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-035 3.5-4'

Date/Time Sampled: 08/28/17 14:50

Laboratory Sample ID: 7H30162-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	D, F
Benzyl alcohol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Butyl benzyl phthalate	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
4-Chloroaniline	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
2-Chloronaphthalene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
2-Chlorophenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Chrysene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	D, F
Dibenzofuran	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F
Di-n-butyl phthalate	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F

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Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennsdale, PA 17756
(570) 494-6380
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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
1,3-Dichlorobenzene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
1,4-Dichlorobenzene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
3,3'-Dichlorobenzidine	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		F
2,4-Dichlorophenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		F
Diethyl phthalate	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		F
2,4-Dimethylphenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		F
Dimethyl phthalate	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		F
4,6-Dinitro-2-methylphenol	<3.83	3.83	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
2,4-Dinitrophenol	<3.83	3.83	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
2,4-Dinitrotoluene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		F
2,6-Dinitrotoluene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		F
Di-n-octyl phthalate	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		D, F
Aniline	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
Naphthalene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
N-Nitrosodimethylamine	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
Acetophenone	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		
3 & 4-Methylphenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr		

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Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Fluoranthene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
Fluorene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
Hexachlorobenzene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
Hexachlorobutadiene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	H
Hexachlorocyclopentadiene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	H
Hexachloroethane	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	D, F, H
Isophorone	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	H
2-Methylnaphthalene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
2-Methylphenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
2-Nitroaniline	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
3-Nitroaniline	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
4-Nitroaniline	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
Nitrobenzene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	H
2-Nitrophenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	H
4-Nitrophenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
N-Nitrosodi-n-propylamine	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	

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Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<3.83	3.83	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Phenanthrene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
Phenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	
Pyrene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
1,2,4-Trichlorobenzene	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	H
2,4,5-Trichlorophenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
2,4,6-Trichlorophenol	<0.766	0.766	mg/kg dry	09/08/17 03:01	EPA 8270D	rsr	F, H
Surrogate: 2-Fluorophenol	107 %	10-169		09/08/17 03:01	EPA 8270D	rsr	
Surrogate: Phenol-d6	106 %	10-166		09/08/17 03:01	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	109 %	18.8-170		09/08/17 03:01	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	129 %	35.1-154		09/08/17 03:01	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	108 %	20-158		09/08/17 03:01	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	126 %	52.1-160		09/08/17 03:01	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
Benzene	<0.0021	0.0021	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
Toluene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
Ethylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Naphthalene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Acrylonitrile	<0.0107	0.0107	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Bromobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Bromochloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Bromodichloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Bromoform	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Bromomethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
sec-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
tert-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
n-Butylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Carbon disulfide	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Chlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Chloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Chloroform	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Chloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
4-Chlorotoluene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc

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Laboratory Sample ID: 7H30162-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
Dibromochloromethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0021	0.0021	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
Dibromomethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0021	0.0021	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,1-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Hexachlorobutadiene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
p-Isopropyltoluene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Methylene chloride	<0.0213	0.0213	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
n-Propylbenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Styrene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Tetrachloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Trichloroethene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Trichlorofluoromethane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc

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89 Kristi Road
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-035 3.5-4'

Date/Time Sampled: 08/28/17 14:50

Laboratory Sample ID: 7H30162-09 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0021	0.0021	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
o-Xylene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
m,p-Xylene	<0.0053	0.0053	mg/kg dry	09/02/17 09:24	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	70 %	70-130		09/02/17 09:24	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	123 %	70-130		09/02/17 09:24	EPA 8260B	mtc
Surrogate: Fluorobenzene	105 %	70-130		09/02/17 09:24	EPA 8260B	mtc

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Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	77.5	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.38	2.38	mg/kg dry	09/13/17 21:47	EPA 6010B/2.0	sr	G, I
Arsenic	18.5	4.75	mg/kg dry	09/13/17 21:48	EPA 6010B/2.0	sr	G, I
Barium	71.7	5.94	mg/kg dry	09/13/17 21:46	EPA 6010B/2.0	sr	I
Cadmium	<2.38	2.38	mg/kg dry	09/13/17 21:48	EPA 6010B/2.0	sr	
Chromium	6.21	2.97	mg/kg dry	09/13/17 21:48	EPA 6010B/2.0	sr	I
Mercury	0.132	0.0356	mg/kg dry	09/05/17 14:03	EPA 7471B	jks	
Lead	26.0	4.75	mg/kg dry	09/13/17 21:48	EPA 6010B/2.0	sr	I
Selenium	<11.9	11.9	mg/kg dry	09/13/17 21:48	EPA 6010B/2.0	sr	G, I

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.025	0.025	mg/kg dry	09/07/17 15:13	EPA 8082	rsr	
PCB-1221	<0.025	0.025	mg/kg dry	09/07/17 15:13	EPA 8082	rsr	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.025	0.025	mg/kg dry	09/07/17 15:13	EPA 8082	rsr	
PCB-1242	<0.025	0.025	mg/kg dry	09/07/17 15:13	EPA 8082	rsr	
PCB-1248	<0.025	0.025	mg/kg dry	09/07/17 15:13	EPA 8082	rsr	
PCB-1254	<0.025	0.025	mg/kg dry	09/07/17 15:13	EPA 8082	rsr	
PCB-1260	<0.025	0.025	mg/kg dry	09/07/17 15:13	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	104 %	11-140		09/07/17 15:13	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	108 %	24.4-140		09/07/17 15:13	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pyridine	<1.68	1.68	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Benzidine	<4.20	4.20	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Diphenylamine	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Acenaphthene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Acenaphthylene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Anthracene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Benzoic acid	<8.39	8.39	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Benzo (a) anthracene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	D, F

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	D, F
Benzyl alcohol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Butyl benzyl phthalate	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
4-Chloroaniline	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
2-Chloronaphthalene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
2-Chlorophenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Chrysene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	D, F
Dibenzofuran	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Di-n-butyl phthalate	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F

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Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
1,3-Dichlorobenzene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
1,4-Dichlorobenzene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
2,4-Dichlorophenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Diethyl phthalate	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
2,4-Dimethylphenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Dimethyl phthalate	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<4.20	4.20	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
2,4-Dinitrophenol	<4.20	4.20	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
2,4-Dinitrotoluene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F
Di-n-octyl phthalate	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	D, F
Aniline	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Naphthalene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
N-Nitrosodimethylamine	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Acetophenone	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
3 & 4-Methylphenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Fluoranthene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
Fluorene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
Hexachlorobenzene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
Hexachlorobutadiene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H
Hexachlorocyclopentadiene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H
Hexachloroethane	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H, D, F
Isophorone	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H
2-Methylnaphthalene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
2-Methylphenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
2-Nitroaniline	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
3-Nitroaniline	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
4-Nitroaniline	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H, F
Nitrobenzene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H
2-Nitrophenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H
4-Nitrophenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
N-Nitrosodi-n-propylamine	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<4.20	4.20	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Phenanthrene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
Phenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	
Pyrene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
1,2,4-Trichlorobenzene	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	H
2,4,5-Trichlorophenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
2,4,6-Trichlorophenol	<0.839	0.839	mg/kg dry	09/08/17 03:27	EPA 8270D	rsr	F, H
Surrogate: 2-Fluorophenol	124 %	10-169		09/08/17 03:27	EPA 8270D	rsr	
Surrogate: Phenol-d6	121 %	10-166		09/08/17 03:27	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	125 %	18.8-170		09/08/17 03:27	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	152 %	35.1-154		09/08/17 03:27	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	122 %	20-158		09/08/17 03:27	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	142 %	52.1-160		09/08/17 03:27	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
Benzene	<0.0021	0.0021	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
Toluene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
Ethylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Naphthalene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Acrylonitrile	<0.0105	0.0105	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Bromobenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Bromochloromethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Bromodichloromethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Bromoform	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Bromomethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
sec-Butylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
tert-Butylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
n-Butylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Carbon disulfide	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Chlorobenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Chloroethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Chloroform	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Chloromethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
4-Chlorotoluene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc

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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
Dibromochloromethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0021	0.0021	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
Dibromomethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0021	0.0021	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	

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Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,1-Dichloropropene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Hexachlorobutadiene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
p-Isopropyltoluene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Methylene chloride	<0.0210	0.0210	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
n-Propylbenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Styrene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Tetrachloroethene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Trichloroethene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
Trichlorofluoromethane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc

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Client Sample ID: SB-036 2-2.5'

Date/Time Sampled: 08/29/17 08:50

Laboratory Sample ID: 7H30162-10 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0021	0.0021	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
o-Xylene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
m,p-Xylene	<0.0052	0.0052	mg/kg dry	09/02/17 10:02	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	65 %	70-130		09/02/17 10:02	EPA 8260B	mtc	P
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		09/02/17 10:02	EPA 8260B	mtc	
Surrogate: Fluorobenzene	101 %	70-130		09/02/17 10:02	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	83.8	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.16	2.16	mg/kg dry	09/13/17 22:14	EPA 6010B/2.0	sr	G
Arsenic	17.8	4.31	mg/kg dry	09/13/17 22:15	EPA 6010B/2.0	sr	G
Barium	88.3	5.39	mg/kg dry	09/13/17 22:13	EPA 6010B/2.0	sr	
Cadmium	<2.16	2.16	mg/kg dry	09/13/17 22:15	EPA 6010B/2.0	sr	
Chromium	5.49	2.70	mg/kg dry	09/13/17 22:15	EPA 6010B/2.0	sr	
Mercury	0.167	0.0348	mg/kg dry	09/05/17 14:04	EPA 7471B	jks	
Lead	29.6	4.31	mg/kg dry	09/13/17 22:15	EPA 6010B/2.0	sr	
Selenium	<10.8	10.8	mg/kg dry	09/13/17 22:15	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.021	0.021	mg/kg dry	09/07/17 15:45	EPA 8082	rsr	
PCB-1221	<0.021	0.021	mg/kg dry	09/07/17 15:45	EPA 8082	rsr	

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Project: PAGNOTTI

Project Number: [none]

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Number of Containers: 60

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Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.021	0.021	mg/kg dry	09/07/17 15:45	EPA 8082	rsr	
PCB-1242	<0.021	0.021	mg/kg dry	09/07/17 15:45	EPA 8082	rsr	
PCB-1248	<0.021	0.021	mg/kg dry	09/07/17 15:45	EPA 8082	rsr	
PCB-1254	<0.021	0.021	mg/kg dry	09/07/17 15:45	EPA 8082	rsr	
PCB-1260	<0.021	0.021	mg/kg dry	09/07/17 15:45	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	102 %	11-140		09/07/17 15:45	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	106 %	24.4-140		09/07/17 15:45	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Pyridine	<2.34	2.34	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Diphenylamine	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Benzidine	<5.84	5.84	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Acenaphthene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Acenaphthylene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Anthracene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Benzoic acid	<11.7	11.7	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Benzo (a) anthracene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	D, F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, D
Benzyl alcohol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Butyl benzyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
4-Chloroaniline	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
2-Chloronaphthalene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
2-Chlorophenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Chrysene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	D, F
Dibenzofuran	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Di-n-butyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
1,3-Dichlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
1,4-Dichlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
2,4-Dichlorophenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Diethyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
2,4-Dimethylphenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Dimethyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<5.84	5.84	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
2,4-Dinitrophenol	<5.84	5.84	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
2,4-Dinitrotoluene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F
Di-n-octyl phthalate	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	D, F
Aniline	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Naphthalene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
N-Nitrosodimethylamine	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
3 & 4-Methylphenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Acetophenone	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	

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Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Fluoranthene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
Fluorene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
Hexachlorobenzene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
Hexachlorobutadiene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	H
Hexachlorocyclopentadiene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	H
Hexachloroethane	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	D, F, H
Isophorone	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	H
2-Methylnaphthalene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
2-Methylphenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
2-Nitroaniline	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
3-Nitroaniline	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
4-Nitroaniline	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
Nitrobenzene	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	H
2-Nitrophenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	H
4-Nitrophenol	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
N-Nitrosodi-n-propylamine	<1.17	1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	

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Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<5.84		5.84	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Phenanthrene	<1.17		1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
Phenol	<1.17		1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	
Pyrene	<1.17		1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
1,2,4-Trichlorobenzene	<1.17		1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	H
2,4,5-Trichlorophenol	<1.17		1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
2,4,6-Trichlorophenol	<1.17		1.17	mg/kg dry	09/08/17 03:54	EPA 8270D	rsr	F, H
Surrogate: 2-Fluorophenol		111 %	10-169		09/08/17 03:54	EPA 8270D	rsr	
Surrogate: Phenol-d6		110 %	10-166		09/08/17 03:54	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5		115 %	18.8-170		09/08/17 03:54	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl		137 %	35.1-154		09/08/17 03:54	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol		111 %	20-158		09/08/17 03:54	EPA 8270D	rsr	
Surrogate: Terphenyl-d14		129 %	52.1-160		09/08/17 03:54	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,2,4-Trimethylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Benzene	<0.0019	0.0019	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Toluene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Ethylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc

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Pennsdale, PA 17756
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PaDEP: PA 41-04684



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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Naphthalene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Acrylonitrile	<0.0096	0.0096	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Bromobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Bromochloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Bromodichloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Bromoform	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Bromomethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
sec-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
tert-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
n-Butylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Carbon disulfide	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Chlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Chloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Chloroform	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Chloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
4-Chlorotoluene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
Dibromochloromethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0019	0.0019	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
Dibromomethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0019	0.0019	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	

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Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,1-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Hexachlorobutadiene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
p-Isopropyltoluene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Methylene chloride	<0.0192	0.0192	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
n-Propylbenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Styrene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Tetrachloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Trichloroethene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
Trichlorofluoromethane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc

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Reported:
09/14/17 14:36

Client Sample ID: SB-037 8-8.5'

Date/Time Sampled: 08/29/17 09:45

Laboratory Sample ID: 7H30162-11 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0019	0.0019	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
o-Xylene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
m,p-Xylene	<0.0048	0.0048	mg/kg dry	09/02/17 10:39	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	56 %	70-130		09/02/17 10:39	EPA 8260B	mtc	P
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		09/02/17 10:39	EPA 8260B	mtc	
Surrogate: Fluorobenzene	108 %	70-130		09/02/17 10:39	EPA 8260B	mtc	

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Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	91.0	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.02	2.02	mg/kg dry	09/13/17 22:22	EPA 6010B/2.0	sr	G
Arsenic	8.42	4.03	mg/kg dry	09/13/17 22:22	EPA 6010B/2.0	sr	G
Barium	71.4	5.04	mg/kg dry	09/13/17 22:20	EPA 6010B/2.0	sr	
Cadmium	<2.02	2.02	mg/kg dry	09/13/17 22:22	EPA 6010B/2.0	sr	
Chromium	5.36	2.52	mg/kg dry	09/13/17 22:22	EPA 6010B/2.0	sr	
Mercury	0.0862	0.0312	mg/kg dry	09/05/17 14:06	EPA 7471B	jks	
Lead	21.2	4.03	mg/kg dry	09/13/17 22:22	EPA 6010B/2.0	sr	
Selenium	<10.1	10.1	mg/kg dry	09/13/17 22:22	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.011	0.011	mg/kg dry	09/07/17 16:17	EPA 8082	rsr	
PCB-1221	<0.011	0.011	mg/kg dry	09/07/17 16:17	EPA 8082	rsr	

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Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.011	0.011	mg/kg dry	09/07/17 16:17	EPA 8082	rsr	
PCB-1242	<0.011	0.011	mg/kg dry	09/07/17 16:17	EPA 8082	rsr	
PCB-1248	<0.011	0.011	mg/kg dry	09/07/17 16:17	EPA 8082	rsr	
PCB-1254	<0.011	0.011	mg/kg dry	09/07/17 16:17	EPA 8082	rsr	
PCB-1260	<0.011	0.011	mg/kg dry	09/07/17 16:17	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	96.7 %	11-140		09/07/17 16:17	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	106 %	24.4-140		09/07/17 16:17	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<1.81	1.81	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Pyridine	<0.724	0.724	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Diphenylamine	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Acenaphthene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Acenaphthylene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Anthracene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Benzoic acid	<3.62	3.62	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Benzo (a) anthracene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	D, F

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	D, F
Benzyl alcohol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Butyl benzyl phthalate	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
4-Chloroaniline	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
2-Chloronaphthalene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
2-Chlorophenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Chrysene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	D, F
Dibenzofuran	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Di-n-butyl phthalate	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F

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Altoona, PA 16603
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(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
1,3-Dichlorobenzene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
1,4-Dichlorobenzene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
2,4-Dichlorophenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Diethyl phthalate	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
2,4-Dimethylphenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Dimethyl phthalate	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<1.81	1.81	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
2,4-Dinitrophenol	<1.81	1.81	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
2,4-Dinitrotoluene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F
Di-n-octyl phthalate	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	D, F
Aniline	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Naphthalene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
N-Nitrosodimethylamine	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Acetophenone	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
3 & 4-Methylphenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Fluoranthene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
Fluorene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
Hexachlorobenzene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
Hexachlorobutadiene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	H
Hexachlorocyclopentadiene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	H
Hexachloroethane	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	D, F, H
Isophorone	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	H
2-Methylnaphthalene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
2-Methylphenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
2-Nitroaniline	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
3-Nitroaniline	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
4-Nitroaniline	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
Nitrobenzene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	H
2-Nitrophenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	H
4-Nitrophenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
N-Nitrosodi-n-propylamine	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
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Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<1.81	1.81	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Phenanthrene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
Phenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	
Pyrene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
1,2,4-Trichlorobenzene	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	H
2,4,5-Trichlorophenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
2,4,6-Trichlorophenol	<0.362	0.362	mg/kg dry	09/08/17 04:20	EPA 8270D	rsr	F, H
Surrogate: 2-Fluorophenol	117 %	10-169		09/08/17 04:20	EPA 8270D	rsr	
Surrogate: Phenol-d6	115 %	10-166		09/08/17 04:20	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	104 %	18.8-170		09/08/17 04:20	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	126 %	35.1-154		09/08/17 04:20	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	112 %	20-158		09/08/17 04:20	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	119 %	52.1-160		09/08/17 04:20	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
Benzene	<0.0018	0.0018	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
Toluene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
Ethylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Methyl tert-butyl ether	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Naphthalene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Acrylonitrile	<0.0090	0.0090	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Bromobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Bromochloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Bromodichloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Bromoform	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Bromomethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
sec-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
tert-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
n-Butylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Carbon disulfide	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Chlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Chloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Chloroform	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Chloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
4-Chlorotoluene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
Dibromochloromethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.0018	0.0018	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
Dibromomethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0018	0.0018	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,1-Dichloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,1-Dichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,3-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
1,2-Dichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,1-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
cis-1,3-Dichloropropene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Hexachlorobutadiene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
p-Isopropyltoluene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Methylene chloride	<0.0180	0.0180	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
n-Propylbenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Styrene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,1,2,2-Tetrachloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,1,1,2-Tetrachloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Tetrachloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,2,4-Trichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,2,3-Trichlorobenzene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,1,1-Trichloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,1,2-Trichloroethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Trichloroethene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
Trichlorofluoromethane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc
1,2,3-Trichloropropane	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc

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Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Client Sample ID: SB-038 12.5-13'

Date/Time Sampled: 08/29/17 10:45

Laboratory Sample ID: 7H30162-12 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0018	0.0018	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
o-Xylene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
m,p-Xylene	<0.0045	0.0045	mg/kg dry	09/02/17 11:17	EPA 8260B	mtc	
Surrogate: 4-Bromofluorobenzene	43 %	70-130		09/02/17 11:17	EPA 8260B	mtc	P
Surrogate: 1,2-Dichloroethane-d4	132 %	70-130		09/02/17 11:17	EPA 8260B	mtc	O
Surrogate: Fluorobenzene	121 %	70-130		09/02/17 11:17	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	86.0	0.100	%	08/31/17 17:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.96	1.96	mg/kg dry	09/13/17 22:29	EPA 6010B/2.0	sr	G
Arsenic	9.28	3.93	mg/kg dry	09/13/17 22:29	EPA 6010B/2.0	sr	G
Barium	63.4	4.91	mg/kg dry	09/13/17 22:27	EPA 6010B/2.0	sr	
Cadmium	<1.96	1.96	mg/kg dry	09/13/17 22:29	EPA 6010B/2.0	sr	
Chromium	5.14	2.45	mg/kg dry	09/13/17 22:29	EPA 6010B/2.0	sr	
Mercury	0.107	0.0306	mg/kg dry	09/05/17 14:08	EPA 7471B	jks	
Lead	29.0	3.93	mg/kg dry	09/13/17 22:29	EPA 6010B/2.0	sr	
Selenium	13.1	9.82	mg/kg dry	09/13/17 22:29	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.017	0.017	mg/kg dry	09/07/17 17:44	EPA 8082	rsr	
PCB-1221	<0.017	0.017	mg/kg dry	09/07/17 17:44	EPA 8082	rsr	

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Altoona, PA 16603
(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.017	0.017	mg/kg dry	09/07/17 17:44	EPA 8082	rsr	
PCB-1242	<0.017	0.017	mg/kg dry	09/07/17 17:44	EPA 8082	rsr	
PCB-1248	<0.017	0.017	mg/kg dry	09/07/17 17:44	EPA 8082	rsr	
PCB-1254	<0.017	0.017	mg/kg dry	09/07/17 17:44	EPA 8082	rsr	
PCB-1260	<0.017	0.017	mg/kg dry	09/07/17 17:44	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	104 %	11-140		09/07/17 17:44	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	113 %	24.4-140		09/07/17 17:44	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Diphenylamine	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Pyridine	<2.29	2.29	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Benzidine	<5.73	5.73	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Acenaphthene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Acenaphthylene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Anthracene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Benzoic acid	<11.5	11.5	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Benzo (a) anthracene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	D, F

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89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	D, F
Benzyl alcohol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Butyl benzyl phthalate	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
4-Chloroaniline	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
2-Chloronaphthalene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
2-Chlorophenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Chrysene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	D, F
Dibenzofuran	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Di-n-butyl phthalate	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F

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Borton-Lawson
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Project Number: [none]
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Reported:
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Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
1,3-Dichlorobenzene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
1,4-Dichlorobenzene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
2,4-Dichlorophenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Diethyl phthalate	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
2,4-Dimethylphenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Dimethyl phthalate	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<5.73	5.73	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
2,4-Dinitrophenol	<5.73	5.73	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
2,4-Dinitrotoluene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Di-n-octyl phthalate	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	D, F
Aniline	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Naphthalene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
N-Nitrosodimethylamine	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
3 & 4-Methylphenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Acetophenone	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

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09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

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Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Fluoranthene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Fluorene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Hexachlorobenzene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Hexachlorobutadiene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Hexachlorocyclopentadiene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Hexachloroethane	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	D, F
Isophorone	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
2-Methylnaphthalene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
2-Methylphenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
2-Nitroaniline	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
3-Nitroaniline	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
4-Nitroaniline	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Nitrobenzene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
2-Nitrophenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
4-Nitrophenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
N-Nitrosodi-n-propylamine	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	

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Project: PAGNOTTI
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Collector: CLIENT
Number of Containers: 60

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09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<5.73	5.73	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Phenanthrene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Phenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
Pyrene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
1,2,4-Trichlorobenzene	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	
2,4,5-Trichlorophenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
2,4,6-Trichlorophenol	<1.15	1.15	mg/kg dry	09/08/17 04:47	EPA 8270D	rsr	F
Surrogate: 2-Fluorophenol	117 %	10-169		09/08/17 04:47	EPA 8270D	rsr	
Surrogate: Phenol-d6	117 %	10-166		09/08/17 04:47	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	113 %	18.8-170		09/08/17 04:47	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	137 %	35.1-154		09/08/17 04:47	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	113 %	20-158		09/08/17 04:47	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	130 %	52.1-160		09/08/17 04:47	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,2,4-Trimethylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Benzene	<0.0025	0.0025	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Toluene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Ethylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60
Reported:
09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Methyl tert-butyl ether	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	
Naphthalene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Acrylonitrile	<0.0124	0.0124	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Bromobenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Bromochloromethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Bromodichloromethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Bromoform	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Bromomethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
sec-Butylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
tert-Butylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	
n-Butylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Carbon disulfide	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Chlorobenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Chloroethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Chloroform	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Chloromethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
4-Chlorotoluene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I

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PaDEP: PA 41-04684



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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60
Reported:
09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,2-Dibromo-3-chloropropane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Dibromochloromethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,2-Dibromoethane (EDB)	<0.0025	0.0025	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Dibromomethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
trans-1,4-Dichloro-2-butene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,2-Dichlorobenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,4-Dichlorobenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,3-Dichlorobenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Dichlorodifluoromethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	E
1,2-Dichloroethane	<0.0025	0.0025	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,1-Dichloroethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
trans-1,2-Dichloroethene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
cis-1,2-Dichloroethene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,1-Dichloroethene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	
2,2-Dichloropropane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	H
1,3-Dichloropropane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,2-Dichloropropane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I

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89 Kristi Road
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PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Borton-Lawson

613 Baltimore Drive, Suite 300

Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Client Sample ID: SB-039 6.5-7'

Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,1-Dichloropropene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
cis-1,3-Dichloropropene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Hexachlorobutadiene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	H
p-Isopropyltoluene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Methylene chloride	<0.0249	0.0249	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
n-Propylbenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Styrene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,1,2,2-Tetrachloroethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,1,1,2-Tetrachloroethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	
Tetrachloroethene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,2,4-Trichlorobenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,2,3-Trichlorobenzene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
1,1,1-Trichloroethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Trichloroethene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Trichlorofluoromethane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I

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Project: PAGNOTTI

Project Number: [none]

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Reported:

09/14/17 14:36

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Date/Time Sampled: 08/29/17 12:20

Laboratory Sample ID: 7H30162-13 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.0025	0.0025	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
o-Xylene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
m,p-Xylene	<0.0062	0.0062	mg/kg dry	09/02/17 12:32	EPA 8260B	mtc	I
Surrogate: 4-Bromofluorobenzene	78 %	70-130		09/02/17 12:32	EPA 8260B	mtc	I
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		09/02/17 12:32	EPA 8260B	mtc	
Surrogate: Fluorobenzene	98 %	70-130		09/02/17 12:32	EPA 8260B	mtc	

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	91.1	0.100	%	09/01/17 18:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<1.87	1.87	mg/kg dry	09/13/17 22:36	EPA 6010B/2.0	sr	G
Arsenic	13.7	3.75	mg/kg dry	09/13/17 22:37	EPA 6010B/2.0	sr	G
Barium	60.4	4.68	mg/kg dry	09/13/17 22:35	EPA 6010B/2.0	sr	
Cadmium	<1.87	1.87	mg/kg dry	09/13/17 22:37	EPA 6010B/2.0	sr	
Chromium	7.16	2.34	mg/kg dry	09/13/17 22:37	EPA 6010B/2.0	sr	
Mercury	0.0716	0.0326	mg/kg dry	09/05/17 14:09	EPA 7471B	jks	
Lead	35.8	3.75	mg/kg dry	09/13/17 22:37	EPA 6010B/2.0	sr	
Selenium	<9.37	9.37	mg/kg dry	09/13/17 22:37	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.021	0.021	mg/kg dry	09/07/17 18:16	EPA 8082	rsr	
PCB-1221	<0.021	0.021	mg/kg dry	09/07/17 18:16	EPA 8082	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.021	0.021	mg/kg dry	09/07/17 18:16	EPA 8082	rsr	
PCB-1242	<0.021	0.021	mg/kg dry	09/07/17 18:16	EPA 8082	rsr	
PCB-1248	<0.021	0.021	mg/kg dry	09/07/17 18:16	EPA 8082	rsr	
PCB-1254	<0.021	0.021	mg/kg dry	09/07/17 18:16	EPA 8082	rsr	
PCB-1260	<0.021	0.021	mg/kg dry	09/07/17 18:16	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	86.6 %	11-140		09/07/17 18:16	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	94.0 %	24.4-140		09/07/17 18:16	EPA 8082	rsr	

Semivolatle Organic Compounds by EPA Extraction Method 3541

Benzidine	<3.50	3.50	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Diphenylamine	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Pyridine	<1.40	1.40	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Acenaphthene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Acenaphthylene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Anthracene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Benzoic acid	<7.01	7.01	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Benzo (a) anthracene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	D, F

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Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	D, F
Benzo (a) pyrene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	D, F
Benzyl alcohol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Bis(2-chloroethoxy)methane	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Bis(2-chloroethyl)ether	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Bis(2-chloroisopropyl)ether	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Bis(2-ethylhexyl)phthalate	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
4-Bromophenyl phenyl ether	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Butyl benzyl phthalate	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
4-Chloroaniline	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
4-Chloro-3-methylphenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
2-Chloronaphthalene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
2-Chlorophenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
4-Chlorophenyl phenyl ether	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Chrysene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Dibenz (a,h) anthracene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	D, F
Dibenzofuran	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Di-n-butyl phthalate	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F

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Borton-Lawson
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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
1,3-Dichlorobenzene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
1,4-Dichlorobenzene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
2,4-Dichlorophenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Diethyl phthalate	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
2,4-Dimethylphenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Dimethyl phthalate	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<3.50	3.50	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
2,4-Dinitrophenol	<3.50	3.50	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
2,4-Dinitrotoluene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Di-n-octyl phthalate	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	D, F
Aniline	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Naphthalene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
N-Nitrosodimethylamine	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Acetophenone	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
3 & 4-Methylphenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	

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Project: PAGNOTTI

Project Number: [none]

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Number of Containers: 60

Reported:

09/14/17 14:36

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Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Fluoranthene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Fluorene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Hexachlorobenzene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Hexachlorobutadiene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Hexachlorocyclopentadiene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Hexachloroethane	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	D, F
Isophorone	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
2-Methylnaphthalene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
2-Methylphenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
2-Nitroaniline	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
3-Nitroaniline	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
4-Nitroaniline	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Nitrobenzene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
2-Nitrophenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
4-Nitrophenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
N-Nitrosodi-n-propylamine	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	

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Borton-Lawson
613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<3.50	3.50	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Phenanthrene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Phenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
Pyrene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
1,2,4-Trichlorobenzene	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	
2,4,5-Trichlorophenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
2,4,6-Trichlorophenol	<0.701	0.701	mg/kg dry	09/08/17 18:30	EPA 8270D	rsr	F
Surrogate: 2-Fluorophenol	111 %	10-169		09/08/17 18:30	EPA 8270D	rsr	
Surrogate: Phenol-d6	109 %	10-166		09/08/17 18:30	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	112 %	18.8-170		09/08/17 18:30	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	139 %	35.1-154		09/08/17 18:30	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	111 %	20-158		09/08/17 18:30	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	130 %	52.1-160		09/08/17 18:30	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Benzene	<0.221	0.221	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Toluene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Ethylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	

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(814) 946-4306
NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Methyl tert-butyl ether	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Naphthalene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Acrylonitrile	<1.10	1.10	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Bromobenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Bromochloromethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Bromodichloromethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Bromoform	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Bromomethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
sec-Butylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
tert-Butylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
n-Butylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Carbon disulfide	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Chlorobenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Chloroethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Chloroform	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Chloromethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
4-Chlorotoluene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc

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Borton-Lawson
613 Baltimore Drive, Suite 300
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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	D
Dibromochloromethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.221	0.221	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Dibromomethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2-Dichloroethane	<0.221	0.221	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,1-Dichloroethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,1-Dichloroethene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
2,2-Dichloropropane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,3-Dichloropropane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2-Dichloropropane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	

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Reported:
09/14/17 14:36

Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Hexachlorobutadiene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
p-Isopropyltoluene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Methylene chloride	<2.21	2.21	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
n-Propylbenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Styrene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	D
Tetrachloroethene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Trichloroethene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
Trichlorofluoromethane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc	

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PaDEP: PA 41-04684



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613 Baltimore Drive, Suite 300

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

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Client Sample ID: SB-040 5.5-6'

Date/Time Sampled: 08/29/17 13:45

Laboratory Sample ID: 7H30162-14 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.221	0.221	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
o-Xylene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
m,p-Xylene	<0.552	0.552	mg/kg dry	09/06/17 16:04	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	99 %	70-130		09/06/17 16:04	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	91 %	70-130		09/06/17 16:04	EPA 8260B	mtc
Surrogate: Fluorobenzene	96 %	70-130		09/06/17 16:04	EPA 8260B	mtc

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613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	68.8	0.100	%	09/01/17 18:00	SM 2540 G-97	pra	

Metals by EPA 6000/7000 Series Methods

Silver	<2.71	2.71	mg/kg dry	09/13/17 22:43	EPA 6010B/2.0	sr	G
Arsenic	33.2	5.43	mg/kg dry	09/13/17 22:43	EPA 6010B/2.0	sr	G
Barium	367	6.78	mg/kg dry	09/13/17 22:41	EPA 6010B/2.0	sr	H
Cadmium	<2.71	2.71	mg/kg dry	09/13/17 22:43	EPA 6010B/2.0	sr	
Chromium	43.3	3.39	mg/kg dry	09/13/17 22:43	EPA 6010B/2.0	sr	H
Mercury	0.810	0.0440	mg/kg dry	09/05/17 14:11	EPA 7471B	jks	
Lead	28.1	5.43	mg/kg dry	09/13/17 22:43	EPA 6010B/2.0	sr	
Selenium	16.5	13.6	mg/kg dry	09/13/17 22:43	EPA 6010B/2.0	sr	G

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1016	<0.015	0.015	mg/kg dry	09/07/17 18:48	EPA 8082	rsr	
PCB-1221	<0.015	0.015	mg/kg dry	09/07/17 18:48	EPA 8082	rsr	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Polychlorinated Biphenyls by EPA Extraction Method 3541

PCB-1232	<0.015	0.015	mg/kg dry	09/07/17 18:48	EPA 8082	rsr	
PCB-1242	<0.015	0.015	mg/kg dry	09/07/17 18:48	EPA 8082	rsr	
PCB-1248	<0.015	0.015	mg/kg dry	09/07/17 18:48	EPA 8082	rsr	
PCB-1254	<0.015	0.015	mg/kg dry	09/07/17 18:48	EPA 8082	rsr	
PCB-1260	<0.015	0.015	mg/kg dry	09/07/17 18:48	EPA 8082	rsr	
Surrogate: Tetrachloro-meta-xylene	93.2 %	11-140		09/07/17 18:48	EPA 8082	rsr	
Surrogate: Decachlorobiphenyl	115 %	24.4-140		09/07/17 18:48	EPA 8082	rsr	

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzidine	<2.40	2.40	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Diphenylamine	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Pyridine	<0.958	0.958	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Acenaphthene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Acenaphthylene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Anthracene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Benzoic acid	<4.79	4.79	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Benzo (a) anthracene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Benzo (b) fluoranthene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	D, F
Benzo (k) fluoranthene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F, D

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Benzo (g,h,i) perylene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		D, F
Benzo (a) pyrene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		D, F
Benzyl alcohol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		
Bis(2-chloroethoxy)methane	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		
Bis(2-chloroethyl)ether	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		
Bis(2-chloroisopropyl)ether	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		
Bis(2-ethylhexyl)phthalate	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F
4-Bromophenyl phenyl ether	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F
Butyl benzyl phthalate	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		
4-Chloroaniline	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		
4-Chloro-3-methylphenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F
2-Chloronaphthalene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F
2-Chlorophenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		
4-Chlorophenyl phenyl ether	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F
Chrysene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F
Dibenz (a,h) anthracene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		D, F
Dibenzofuran	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F
Di-n-butyl phthalate	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr		F

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Dichlorobenzene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
1,3-Dichlorobenzene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
1,4-Dichlorobenzene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
3,3'-Dichlorobenzidine	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
2,4-Dichlorophenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Diethyl phthalate	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
2,4-Dimethylphenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Dimethyl phthalate	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
4,6-Dinitro-2-methylphenol	<2.40	2.40	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
2,4-Dinitrophenol	<2.40	2.40	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
2,4-Dinitrotoluene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
2,6-Dinitrotoluene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Di-n-octyl phthalate	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	D, F
Aniline	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Naphthalene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
N-Nitrosodimethylamine	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Acetophenone	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
3 & 4-Methylphenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	

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NELAP: PA 07-062, VA 460212

89 Kristi Road
Pennssdale, PA 17756
(570) 494-6380
PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

1,2-Diphenylhydrazine	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Fluoranthene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Fluorene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Hexachlorobenzene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Hexachlorobutadiene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Hexachlorocyclopentadiene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Hexachloroethane	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Indeno (1,2,3-cd) pyrene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	D, F
Isophorone	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
2-Methylnaphthalene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
2-Methylphenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
2-Nitroaniline	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
3-Nitroaniline	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
4-Nitroaniline	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Nitrobenzene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
2-Nitrophenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
4-Nitrophenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
N-Nitrosodi-n-propylamine	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Semivolatile Organic Compounds by EPA Extraction Method 3541

Pentachlorophenol	<2.40	2.40	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Phenanthrene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Phenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
Pyrene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
1,2,4-Trichlorobenzene	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	
2,4,5-Trichlorophenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
2,4,6-Trichlorophenol	<0.479	0.479	mg/kg dry	09/08/17 18:57	EPA 8270D	rsr	F
Surrogate: 2-Fluorophenol	108 %	10-169		09/08/17 18:57	EPA 8270D	rsr	
Surrogate: Phenol-d6	106 %	10-166		09/08/17 18:57	EPA 8270D	rsr	
Surrogate: Nitrobenzene-d5	106 %	18.8-170		09/08/17 18:57	EPA 8270D	rsr	
Surrogate: 2-Fluorobiphenyl	124 %	35.1-154		09/08/17 18:57	EPA 8270D	rsr	
Surrogate: 2,4,6-Tribromophenol	99 %	20-158		09/08/17 18:57	EPA 8270D	rsr	
Surrogate: Terphenyl-d14	65 %	52.1-160		09/08/17 18:57	EPA 8270D	rsr	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2,4-Trimethylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Benzene	<0.355	0.355	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Toluene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Ethylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Isopropylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Methyl tert-butyl ether	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Naphthalene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Acrylonitrile	<1.78	1.78	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Bromobenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Bromochloromethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Bromodichloromethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Bromoform	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Bromomethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
sec-Butylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
tert-Butylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
n-Butylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Carbon disulfide	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Chlorobenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Chloroethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Chloroform	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Chloromethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
4-Chlorotoluene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc

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Borton-Lawson
613 Baltimore Drive, Suite 300
Wilkes Barre PA, 18702
Project Manager: Dan Nealon

Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

2-Chlorotoluene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2-Dibromo-3-chloropropane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	D
Dibromochloromethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2-Dibromoethane (EDB)	<0.355	0.355	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Dibromomethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
trans-1,4-Dichloro-2-butene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2-Dichlorobenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,4-Dichlorobenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,3-Dichlorobenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Dichlorodifluoromethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2-Dichloroethane	<0.355	0.355	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,1-Dichloroethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
trans-1,2-Dichloroethene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
cis-1,2-Dichloroethene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,1-Dichloroethene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
2,2-Dichloropropane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,3-Dichloropropane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2-Dichloropropane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	

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Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

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Client Sample ID: SB-041 2-2.5'

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Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

trans-1,3-Dichloropropene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	D
1,1-Dichloropropene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
cis-1,3-Dichloropropene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Hexachlorobutadiene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
p-Isopropyltoluene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Methylene chloride	<3.55	3.55	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
n-Propylbenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Styrene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,1,2,2-Tetrachloroethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,1,1,2-Tetrachloroethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	D
Tetrachloroethene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2,4-Trichlorobenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2,3-Trichlorobenzene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,1,1-Trichloroethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,1,2-Trichloroethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Trichloroethene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
Trichlorofluoromethane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	
1,2,3-Trichloropropane	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc	

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Project: PAGNOTTI
Project Number: [none]
Collector: CLIENT
Number of Containers: 60

Reported:
09/14/17 14:36

Client Sample ID: SB-041 2-2.5'

Date/Time Sampled: 08/29/17 14:20

Laboratory Sample ID: 7H30162-15 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	<0.355	0.355	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
o-Xylene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
m,p-Xylene	<0.889	0.889	mg/kg dry	09/06/17 16:32	EPA 8260B	mtc
Surrogate: 4-Bromofluorobenzene	97 %	70-130		09/06/17 16:32	EPA 8260B	mtc
Surrogate: 1,2-Dichloroethane-d4	96 %	70-130		09/06/17 16:32	EPA 8260B	mtc
Surrogate: Fluorobenzene	94 %	70-130		09/06/17 16:32	EPA 8260B	mtc

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Wilkes Barre PA, 18702

Project Manager: Dan Nealon

Project: PAGNOTTI

Project Number: [none]

Collector: CLIENT

Number of Containers: 60

Reported:

09/14/17 14:36

Notes

- D A Continuing Calibration Verification (CCV) analyzed with the analytical batch recovered above the acceptance range for the noted analyte.
- E A Continuing Calibration Verification (CCV) analyzed with the analytical batch recovered below the acceptance range for the noted analyte.
- F The Laboratory Control Sample (LCS) analyzed with this preparation batch recovered above the acceptance range for the noted analyte.
- G The Laboratory Control Sample (LCS) analyzed with this preparation batch recovered below the acceptance range for the noted analyte.
- H The spike recovery was above the acceptance range for the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- I The spike recovery was below the acceptance range for the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- I5 The vial provided contained preservative for 5 grams of sample; however, the vial was received with greater than 30% of this amount of sample.
- K The RPD result exceeded the quality control limits for the duplicate, Laboratory Control Sample Duplicate (LCSD), or Matrix Spike Duplicate (MSD) sample analyzed with the preparation batch.
- O The noted surrogate value was above the acceptance range.
- P The noted surrogate value was below the acceptance range.



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Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be considered as analyzed outside the EPA holding time.

* P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

* G indicates analysis performed by Fairway Laboratories, Inc. at the Greensburg location PaDEP: 65-00392. This location is PaDEP Chapter 252 certified.

< Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.



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PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Borton-Lawson

Project: PAGNOTTI

613 Baltimore Drive, Suite 300

Project Number: [none]

Reported:

Wilkes Barre PA, 18702

Collector: CLIENT

09/14/17 14:36

Project Manager: Dan Nealon

Number of Containers: 60

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

FAIRWAY LABORATORIES

Please print. Send back of COC for instructions/terms and conditions.

2019 9th Ave.
P.O. Box 1925
Altoona, PA 16602
Phone: (814) 946-4306
Fax: (814) 946-8791

Client Page # 1 of 2

Client Name: <u>Barton Lawton</u>		Received on ice? ☐ Y ☐ N		Reportable to PADEP? ☐ Yes ☐ No		PW/SID # <u> </u>		Analyses Requested				LAB USE ONLY	
Address: <u>613 Baltimore Drive</u>		Sample Temp: <u> </u>		PADEP? ☐ Yes ☐ No		PW/SID # <u> </u>		VOCs				Work Order # <u>7430162</u>	
Contact: <u>Dan Nealon</u>		Composite		GRAB		Matrix		SVOCs				Attach # <u> </u>	
Phone #: <u>570-821-1994</u>		GRAB		Composite		Other		PCBs				FLI Page # <u>1</u> of <u>3</u>	
Fax #: <u> </u>		Composite		GRAB		Other		RCRA Metals				Tracking # <u> </u>	
Project Name: <u>Bayview</u>		Composite		GRAB		Other						Bottle Type/Comments	
Quote/PO #: <u>2017-3091-005</u>		Composite		GRAB		Other							
TAT: Normal ☒ Rush ☐		Composite		GRAB		Other							
Rush TAT subject to pre-approval and surcharge		Composite		GRAB		Other							
Date Required: <u> </u>		Composite		GRAB		Other							
Sample Description/Location		Composite		GRAB		Other							
1 SB-027 8.5-9'		X		8/25/17 13:40		X						1 - 4oz jar	
2 SB-028 5.5-6'				8/25/17 14:30		X						2 - 50ml B&I	
3 SB-029 5.5-6'				8/28/17 9:15		X						1 - MeOH	
4 SB-030 5.5-4'				9:45		X							
5 SB-031 21.5-22'				11:15		X							
6 SB-032 13-13.5'				11:35		X							
7 SB-033 12-12.5'				12:45		X							
8 SB-034 6.5-7'				13:55		X							
9 SB-035 3.5-4'				14:50		X							
10 SB-036 1-2.5'				8/29/17 8:50		X							
11 SB-037 8-8.5'				9:45		X							
Sampled by: <u>D. Nealon</u>		Received by: <u> </u>		Date: <u>8/30/17</u>		Time: <u>10:30</u>		Remarks					
Relinquished by: <u> </u>		Received by: <u> </u>		Date: <u>8/30/17</u>		Time: <u>16:05</u>							
Relinquished by: <u> </u>		Received by: <u> </u>		Date: <u>8/30/17</u>		Time: <u>18:15</u>							

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Please print. See back of COC for instructions/terms and conditions.



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Altoona, PA 16602
Phone: (814) 946-4306
Fax: (814) 946-8791

Client Page # 2 of 2

Client Name: <u>Bertson Lawson</u> Address: <u>613 Belthamer Drive</u> <u>Killbuck Boro PA 15762</u> Contact: <u>Dan Metelan</u> Phone #: <u>570-821-1994</u> <u>X-1043</u> Fax #: _____ Project Name: <u>Asphalt</u> Quote/PO #: <u>2017-3091-003</u>		Received on ice? Y ☐ N ☐ Sample Temp: _____ PWSID # _____		Reportable to PADEP? Yes ☐ No ☐		Analyses Requested VOCs ☒ SVOCs ☒ PCBs ☒ RCRA Metals ☒				LAB USE ONLY Work Order # <u>7430162</u> Attach # <u>2</u> FLI Page # <u>2</u> of <u>3</u> Tracking # _____ Bottle Type/Comments _____	
TAT: Normal ☒ Rush ☐ Rush TAT subject to pre-approval and surcharge Date Required: ____/____/____		GRAB ☐ Composite ☐		Composite Start Start Date: ____/____/____ Start Time: ____:____ End Date: ____/____/____ End Time: ____:____		GRAB -or- Composite End Start Date: ____/____/____ Start Time: ____:____ End Date: ____/____/____ End Time: ____:____		Matrix Solid ☐ Water ☐ Other ☐		# of Containers	
Sample Description/Location		GRAB ☐ Composite ☐		Composite Start Start Date: ____/____/____ Start Time: ____:____ End Date: ____/____/____ End Time: ____:____		GRAB -or- Composite End Start Date: ____/____/____ Start Time: ____:____ End Date: ____/____/____ End Time: ____:____		Matrix Solid ☐ Water ☐ Other ☐		# of Containers	
12 SB-038 12-5-13' X 13 SB-039 6-5-7' 14 SB-040 5-5-6' 15 SB-041 2-2-5' 16		8/20/17 10:45 X 12:20 13:45 14:30		8/20/17 10:45 X 12:20 13:45 14:30		8/20/17 10:45 X 12:20 13:45 14:30		8/20/17 10:45 X 12:20 13:45 14:30		1- 4oz jar 2- 500 Bisc 1- MeOH	
Sampled by: <u>D. Metelan</u> (Signature)		Received by: <u>MLF (MMF)</u> Date: 8/30/17 Time: 10:30		Remarks							
Relinquished by: <u>MLF (MMF)</u> Date: 8/30/17 Time: 16:55		Received by: <u>MLF (MMF)</u> Date: 8/30/17 Time: 16:55									
Relinquished by: <u>MLF (MMF)</u> Date: 8/30/17 Time: 18:15		Received by: <u>MLF (MMF)</u> Date: 8/30/17 Time: 18:15									

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse. White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

Chain of Custody Receiving Document

Receiver:

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#3

Date/Time of this check: 8-30-77 19:30 Client: Karsten Lawson Lab # 7H30162

Received on ICE? ☒ * Sample Temperature when delivered to the Lab: 54 Acceptable? ☒ * or In cool down process? ☐ *

Custody Seals? ✓ Intact? ✓

COC/Labels on bottles agree? ☒ ☐ * Correct containers for all the analysis requested? ☒ ☐ * Matrix: Solid

[illegible]

* DEVIATION PRESENT:	CLIENT CALLED:	CLIENT RESPONSE:
⊗ No Ice ()	YES ()	Proceed with analysis; qualify data ()
⊗ Not at Proper Temperature ()	By Whom: _____	Will Resample ()
⊗ Wrong Container ()	Date: _____	Provided Information ()
⊗ Missing Information: ()		No Response; Proceed and qualified ()
		Client Contact: _____ Date: _____

* Comments:

APPENDIX D

Appendix D – Soil Boring Logs



BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 21, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-001

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				50% RECOVERY. 6' OF BROWN SILT AND ROCK FRAGMENTS, 6" OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. CULM AND BROWN GRAVELLY SILT. REFUSAL @ 7'.
			10		
			15		
			20		
			25		
			30		
			35		



Completion Notes:

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 21, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-002

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				50% RECOVERY. 6" OF BROWN SILT AND ROCK FRAGMENTS, 1.5' OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. 3' OF CULM.
	0 PPM		10		25% RECOVERY. 6" OF CULM, 6" OF BROWN FINE SAND, SILT AND ROCK FRAGMENTS. REFUSAL @ 10'.
			15		
			20		
			25		
			30		
			35		



Completion Notes:

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Plains, Pa

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 21, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-003

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		100% RECOVERY. CULM
	0 PPM		10		90% RECOVERY. CULM
	0 PPM		15		90% RECOVERY. CULM WITH TRACE ROCK FRAGMENTS.
	0 PPM				25% RECOVERY. CULM AND ROCK FRAGMENTS. REFUSAL @ 17'.
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 21, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-004

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS) AND BROWN SILT, FINE SAND AND ROCK FRAGMENTS.
	0 PPM		5		100% RECOVERY. CULM, BROWN SILT, FINE SAND AND ROCK FRAGMENTS
	0 PPM		10		90% RECOVERY. BROWN SILT, ROCK FRAGMENTS, TRACE BROWN CLAY.
	0 PPM		15		75% RECOVERY. BROWN SILT, ROCK FRAGMENTS, TRACE BROWN CLAY.
	0 PPM		20		80% RECOVERY. BROWN SILT, ROCK FRAGMENTS, TRACE BROWN CLAY.
	0 PPM		25		75% RECOVERY. BROWN SILT, ROCK FRAGMENTS, TRACE BROWN SAND.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 21, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-005

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		90% RECOVERY. CULM.
	0 PPM		10		90% RECOVERY. CULM.
	0 PPM		15		90% RECOVERY. CULM.
	0 PPM		20		90% RECOVERY. CULM.
	0 PPM				50% RECOVERY. 1' CULM, MOIST, AND 1' BROWN GRAVELLY SILT.
			25		
			30		
			35		

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 21, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-006

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		80% RECOVERY. CULM.
	0 PPM		10		90% RECOVERY. CULM.
	0 PPM		15		100% RECOVERY. CULM.
	0 PPM		20		90% RECOVERY. CULM.
	0 PPM		25		50% RECOVERY. 1' CULM, MOIST.
			30		
			35		



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BORING LOG



BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 22, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-008

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. CULM (REFUSE COAL SCREENINGS) AND BROWN SILT.
	0 PPM		5		75% RECOVERY. BROWN SILT, CULM TRACE BROWN SILTY CLAY.
	0 PPM		10		80% RECOVERY. BROWN SILTY CLAY AND CULM.
	0 PPM		15		80% RECOVERY. BROWN SILT AND CULM.
	0 PPM		20		90% RECOVERY. BROWN SILT AND CULM.
	0 PPM		25		90% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 22, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-009

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		100% RECOVERY. CULM
	0 PPM		10		80% RECOVERY. CULM.
	0 PPM		15		90% RECOVERY. CULM, TRACE ROCK FRAGMENTS
	0 PPM		20		90% RECOVERY. CULM.
	0 PPM		25		90% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 22, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-010

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		90% RECOVERY. CULM
	0 PPM		10		90% RECOVERY. CULM.
	0 PPM		15		100% RECOVERY. CULM.
	0 PPM		20		100% RECOVERY. CULM.
	0 PPM				100% RECOVERY. 3' OF CULM, 1' OF BROWN GRAVELLY SILT.
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 22, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-011

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		80% RECOVERY. CULM
	0 PPM		10		75% RECOVERY. CULM.
	0 PPM		15		80% RECOVERY. CULM.
	0 PPM		20		100% RECOVERY. 2' OF CULM, 1' DARK BROWN CLAY, 1' COAL ASH AND GRAVEL.
	0 PPM				100% RECOVERY. COAL ASH AND WEATHERED GRAY SANDSTONE. REFUSAL @ 21'.
			25		
			30		
			35		



Completion Notes:

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 23, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-012

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. CULM
	0 PPM		10		50% RECOVERY. CULM.
	0 PPM		15		80% RECOVERY. CULM.
	0 PPM		20		80% RECOVERY. CULM.
	0 PPM				90% RECOVERY. 1' OF CULM, 2.5' OF BROWN GRAVELLY SILT, ROCK FRAGMENTS, TRACE CLAY.
			25		
			30		
			35		



Completion Notes:

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 23, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-013

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. CULM
	0 PPM		10		80% RECOVERY. CULM.
	0 PPM		15		50% RECOVERY. CULM.
	0 PPM		20		90% RECOVERY. CULM.
	0 PPM		25		90% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 23, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-014

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				50% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. CULM
	0 PPM		10		100% RECOVERY. CULM.
	0 PPM		15		100% RECOVERY. CULM, TRACE BLACK SILT,
	0 PPM				100% RECOVERY. CULM.
	0 PPM		20		25% RECOVERY. CULM. REFUSAL @ 21'
			25		
			30		
			35		



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WBSD-Pagnotti Property
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Plains, Pa

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 23, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-015

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. CULM
	0 PPM		10		50% RECOVERY. CULM.
	0 PPM		15		50% RECOVERY. CULM.
	0 PPM		20		75% RECOVERY. CULM.
	0 PPM		25		75% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 23, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-016

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. CULM
	0 PPM		10		75% RECOVERY. CULM.
	0 PPM		15		75% RECOVERY. CULM.
	0 PPM		20		80% RECOVERY. CULM, WOOD (ROOTS), TRACE GRAY SANDSTONE.
	0 PPM		25		90% RECOVERY. CULM.
			30		
			35		



Completion Notes:

Site:

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 21, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-017

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				80% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		80% RECOVERY. CULM AND ROCK FRAGMENTS.
	0 PPM		10		75% RECOVERY. 2.5' OF CULM, 1' OF GRAY FRACTURED SANDSTONE. REFUSAL @ 11'.
			15		
			20		
			25		
			30		
			35		



Completion Notes:

Site:

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 24, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-018

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS)
	0 PPM		5		50% RECOVERY. CULM
	0 PPM		10		50% RECOVERY. CULM.
	0 PPM		15		50% RECOVERY. CULM.
	0 PPM		20		50% RECOVERY. CULM.
	0 PPM		25		
			30		
			35		



Completion Notes:

Site:

WBSD-Pagnotti Property
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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 24, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-019

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				50% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		40% RECOVERY. CULM, TRACE RED BRICK.
	0 PPM		10		75% RECOVERY. CULM, TRACE CLAY @ 11'.
	0 PPM		15		75% RECOVERY. CULM.
	0 PPM				90% RECOVERY. CULM, TRACE CLAY.
	0 PPM		20		25% RECOVERY. CULM AND GRAY SANDSTONE. REFUSAL @ 21'.
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 24, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-020

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. CULM (REFUSE COAL SCREENINGS), WITH ROCK FRAGMENTS.
	0 PPM		5		100% RECOVERY. CULM, WITH ROCK FRAGMENTS.
	0 PPM		10		80% RECOVERY. CULM, WITH ROCK FRAGMENTS.
	0 PPM		15		50% RECOVERY. 1' OF CULM, 1' OF COAL ASH.
	0 PPM				50% RECOVERY. 1' OF COAL ASH, 1' OF CULM.
	0 PPM		20		75% RECOVERY. COAL ASH AND BROWN SILT @ 23.5'.
			25		
			30		
			35		

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 24, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-021

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. CULM (REFUSE COAL SCREENINGS), TRACE GRAY SILTY CLAY.
	0 PPM		5		50% RECOVERY. CULM
	0 PPM		10		75% RECOVERY. CULM.
	0 PPM		15		80% RECOVERY. CULM.
	0 PPM		20		90% RECOVERY. CULM, TRACE GREY CLAYEY SILT.
	0 PPM		25		75% RECOVERY. CULM, GREY SILT AND GREY SANDSTONE.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 24, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-022

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				80% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		90% RECOVERY. CULM
	0 PPM		10		90% RECOVERY. CULM
	0 PPM		15		90% RECOVERY. CULM WITH TRACE ORANGE/BROWN CLAYEY SILT.
	0 PPM				10% RECOVERY. ORANGE/BROWN SILTSTONE. REFUSAL @ 16'.
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 24, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-023

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		90% RECOVERY. CULM.
	0 PPM		10		75% RECOVERY. CULM AND ORANGE/BROWN SILT.
	0 PPM		15		25% RECOVERY. ORANGE/BROWN SILT, TRACE CLAY. REFUSAL @ 16'.
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 25, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-024

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		80% RECOVERY. CULM.
	0 PPM		10		90% RECOVERY. CULM.
	0 PPM		15		75% RECOVERY. CULM.
	0 PPM		20		80% RECOVERY. CULM.
	0 PPM				25% RECOVERY. CULM AND ORANGE/BROWN GRAVELLY SILT. REFUSAL @ 21'.
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 25, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-025

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. CULM.
	0 PPM		10		90% RECOVERY. CULM.
	0 PPM		15		100% RECOVERY. CULM.
	0 PPM		20		75% RECOVERY. CULM.
	0 PPM				100% RECOVERY. 1' OF CULM AND 3' ORANGE/BROWN GRAVELLY SILT, TRACE CLAY.
			25		
			30		
			35		

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 25, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-026

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				80% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		80% RECOVERY. CULM.
	0 PPM		10		75% RECOVERY. CULM AND ORANGE/BROWN SILT.
	0 PPM		15		50% RECOVERY. CULM.
	0 PPM				75% RECOVERY, 2' CULM, 1' BROWN GRAVELLY SILT. REFUSAL @ 19'.
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 25, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-027

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		80% RECOVERY. CULM.
	0 PPM		10		25% RECOVERY. BROWN GRAVELLY SILT. REFUSAL @ 9'.
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 25, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-028

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. 1' OF CULM AND 1' OF BROWN GRAVELLY SILT. REFUSAL @ 6'.
			10		
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 26, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-029

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. 1' OF CULM AND 1' OF BROWN GRAVELLY SILT. REFUSAL @ 6'.
			10		
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 26, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-030

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. 6" BROWN SILT, 3.5' OF ORANGE/BROWN SILT, TRACE CLAY, GRAVEL AND FRACTURED SANDSTONE.
	0 PPM		5		50% RECOVERY. ORANGE/ BROWN GRAVELLY SILT AND SANDSTONE. REFUSAL @ 6'.
			10		
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 28, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-031

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. 2' OF BROWN SILT AND 2' OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		100% RECOVERY. CULM.
	0 PPM		10		100% RECOVERY. CULM.
	0 PPM		15		50% RECOVERY. CULM.
	0 PPM		20		100% RECOVERY. CULM.
	0 PPM				50% RECOVERY. CULM AND ORANGE/BROWN GRAVELLY SILT. REFUSAL @ 22'.
			25		
			30		
			35		

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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 28, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-032

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. 6" BROWN SILT, 3.5' OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. CULM.
	0 PPM		10		75% RECOVERY. CULM.
	0 PPM				50% RECOVERY. CULM, GRAY SANDSTONE IN TIP. REFUSAL AT 14'.
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 28, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-033

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				100% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		90% RECOVERY. CULM.
	0 PPM		10		75% RECOVERY. CULM.
	0 PPM				25% RECOVERY. BROWN GRAVELLY SILT, TRACE CLAY. REFUSAL AT 13'.
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 28, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-034

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. 2.5' OF CULM, .5' OF FINE BROWN GRAVELLY SILT. REFUSAL @ 7'.
			10		
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 28, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-035

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		90% RECOVERY. CULM.
	0 PPM		10		75% RECOVERY. CULM.
	0 PPM		15		75% RECOVERY. CULM.
	0 PPM		20		100% RECOVERY. CULM.
	0 PPM				90% RECOVERY. CULM AND ORANGE/BROWN GRAVELLY SILT.
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 29, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-036

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. 2' OF CULM. GREY SANDSTONE IN TIP. REFUSAL @ 7'.
			10		
			15		
			20		
			25		
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 29, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-037

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. 6" BROWN SILT, 3' OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		50% RECOVERY. CULM.
	0 PPM		10		50% RECOVERY. CULM.
	0 PPM		15		50% RECOVERY. CULM.
	0 PPM		20		50% RECOVERY. CULM.
	0 PPM		25		75% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 29, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-038

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. 6" BROWN SILT, 3' OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. CULM.
	0 PPM		10		50% RECOVERY. CULM.
	0 PPM		15		100% RECOVERY. CULM.
	0 PPM		20		100% RECOVERY. CULM.
	0 PPM		25		90% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 29, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-039

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				90% RECOVERY. 6" BROWN SILT, 3' OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		90% RECOVERY. CULM.
	0 PPM		10		75% RECOVERY. CULM.
	0 PPM		15		75% RECOVERY. CULM.
	0 PPM		20		50% RECOVERY. CULM.
	0 PPM		25		75% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 29, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-040

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				50% RECOVERY. 6" BROWN SILT, 3' OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		75% RECOVERY. CULM.
	0 PPM		10		50% RECOVERY. CULM.
	0 PPM		15		50% RECOVERY. CULM.
	0 PPM		20		25% RECOVERY. CULM.
	0 PPM		25		25% RECOVERY. CULM.
			30		
			35		



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BORING LOG

Drill Rig: Geoprobe 5410

Date Drilled: August 29, 2017

Logged By:

Boring Dia: 2 Inches

Boring Number: SB-041

Jim Strickland, PG

Sample	PID Reading	Completion	Depth Feet	Lithology	Description
	0 PPM				75% RECOVERY. BROWN SILT AND ROCK FRAGMENTS, 6" OF CULM (REFUSE COAL SCREENINGS).
	0 PPM		5		0% RECOVERY. GREY SILTSTONE IN TIP. REFUSAL @ 4'.
			10		
			15		
			20		
			25		
			30		
			35		



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