



New Castle Odor Incident - October / November 2014

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pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Section 1

Summary of Events/ Conclusions

Event Timeline

Area Map / Sampling Locations

New Castle Odor Incident - October/ November 2014

Summary of events:

On October 27, 2014 the Department of Environmental Protection (DEP) was contacted at approximately 5:30 pm, through the after-hours emergency telephone number, with a report of strong chemical odors detected around the area of Sampson Street in New Castle. Nation Fuel Gas and the New Castle Fire Department investigated the area. Near 6:00pm the Assistant Fire Chief contacted the Department to confirm the presence of the odors. Although his Tri-gas meter did not show anything, he indicated the odor was strong enough to burn his eyes and nose.

A member of the DEP's Emergency Response Team arrived on-site at 8:15 pm on October 27th and met the Assistant Fire Chief on River Park Drive. A Multirae (portable chemical, gas detector) was used to investigate the area. Although each could detect an odor with their nose, our field inspector could not detect any measurement with the Multirae meter. Similar results were found about an hour later along Sampson Street, the location of the original complaint. The initial investigation ended after a few other locations were checked with similar results.

Over the next few days the DEP received several complaints of a strong odor, which was mostly characterized or described as a "cat urine" smell. Many of these calls identified several areas along the Sampson Street corridor where the odors were detected, but some of the calls also identified locations in Mahoningtown, and Union Township.

Additional investigations of the area by DEP staff occurred on November 3rd & 4th, 2014 in conjunction with the New Castle Fire Chief and staff from the New Castle Sanitation Authority. In an attempt to further determine the origin and/or movement of the odor, additional air quality readings were taken at manhole covers along the Sampson Street corridor.

On November 6, 2014 the DEP's Bureau of Laboratories Mobile Lab (sampling bus) was on site conducting air monitoring along Sampson Street and along North Cedar Street in the Mahoningtown area. In a collaborative effort at this same time, other DEP, New Castle Fire, and New Castle Sanitation Authority staff collected water samples from manholes along Sampson Street.

In addition to the above efforts, DEP inspectors visited several area businesses both in response to these businesses complaining about the "cat urine" smell and to investigate any possible connections to the odors by sampling discharges or reviewing records of the businesses.

During the course of the DEP investigation, the odor incident was reported nationwide in a short news story and worldwide over the internet. The DEP was contacted by individuals from Pittsburgh, PA; Corolla, NC; Durham, United Kingdom; and Rotherham, England. Each of these individuals had some past experience investigating or dealing with an odor best described as the smell of cat urine.

The common denominator in these events appeared to be the presence of the compound, Mesityl Oxide. This compound can be a contaminate found within other solvents. Mesityl Oxide plus some kind of Sulfur (Hydrogen Sulfide has been mentioned) results in 4-methyl-4-mercaptopentane-2-one which is most likely the compound with the distinctive odor.

The DEP had personnel from our Emergency Response Team, Bureau of Laboratories, Air Quality Program, and Waste Management Program each play a part in this investigation.

The Regional Emergency Response Team (ERT) was able to determine that the New Castle Sanitation Authority Sampson Street sanitary line seemed to be the main odor source. The ERT were able to follow VOC concentrations from manhole sampling points up Sampson Street to the Bailey Street and Riverpark Drive manhole. On Tuesday evening Nov. 3, 2014, DEP ERT, along with the New Castle Fire Department was able to associate the odor in the atmosphere, with the Bailey Street and Riverpark Drive manhole and with the inside of the Advanced Waste Building. The ERT were not able identify the cause or chemical composition of the odor. Although the odor was generally unpleasant, all breathing air Multi-Rae Plus meter readings revealed no unusual or high levels that would warrant atmospheric chemical exposure concerns. The ERT were also able to determine that there was a large amount of oil within the Bailey Street and Riverpark Drive manhole during the Nov. 6, 2014 water sampling. There has not been an Emergency Response dispatch for the New Castle Odor Incident since Wednesday, November 6, 2014.

The Bureau of Laboratories analyzed the various samples taken by Department staff. In addition, the Bureau activated and brought their Mobile Laboratory to New Castle to perform ambient air monitoring in and around the compliant locations in an effort to pinpoint the origin of the odor.



The Regional Air Quality Program assisted ERT staff and Clean Water Program (WQ) staff including pulling water samples from the sanitary sewer lines. The Regional Air Quality Program also helped the Department's Mobile Lab set up equipment when collecting background air samples and when the lab was collecting air samples near the sanitary sewer manhole covers.

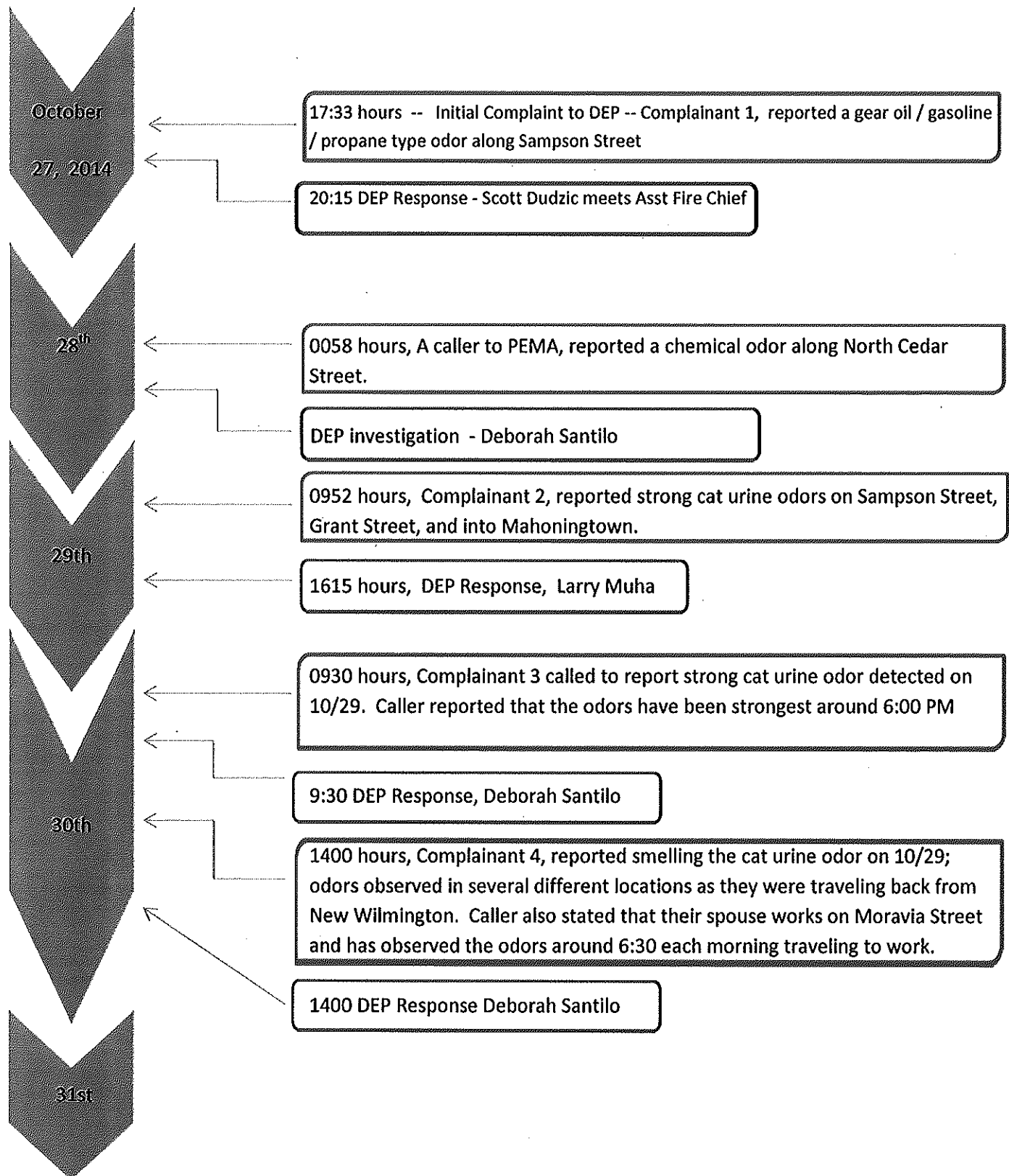
The Regional Air Quality Program reviewed the air monitoring report from the Mobile Lab. This report was also forwarded and reviewed by the Air Quality, Division of Monitoring in the Department's Central Office. The Division of Monitoring forwarded the report to the PA Department of Health Bureau of Epidemiology in Harrisburg for their review. The Regional Air Quality Program compiled the review comments and sent a summary of the report reviews (to the Regional Waste Management Program) for the Department's report on the odor incident.

The Regional Waste Management Program (WM) was quickly assigned to follow-up on the initial complaints since a permitted residual waste processing facility was located in the general area of the detected odors. Staff from the program assisted both Emergency Response Team members and the Mobile Lab personnel during sampling events. Primary focus of the program centered inspections of several businesses and facilities in the general area to determine the scope and content of any recent discharges to the sewer system in an attempt to identify the origin of the odors. WM was assigned responsibility for the final follow-up, review, and closing out of the remaining complaints as well as drafting this incident report.

Conclusions:

The DEP Northwest Regional Office's investigation into determining the cause and/or origin of this incident was inconclusive. Based on some of the observations made during various compliant investigations and the similar accounts related to the Department, the Department can only postulate a waste containing Mesityl Oxide or another similar compound reacted with a sulfur compound under a specific set of conditions somewhere within the sewer system creating the distinctive "cat urine" odor and allowed an easy pathway within the sewer system for it to quickly spread over a large area. No specific industry or waste stream could be definitively identified as the exact cause of the odor.

Time Line of Events



November
1, 2014

2nd

1145 hours, Employees reported odors inside their business, along Riverpark Drive.

3rd

1300 hours DEP Response - Deborah Santilo

1325 hours, A Resident on Sampson Street, reported cat urine odor in their basement between 11:30 and Noon

DEP Response - Dustin Wyant

4th

1900 DEP Response - Dustin Wyant

5th

915 DEP Investigation - Brian Mummert

9:10 DEP Investigation - Brian Mummert

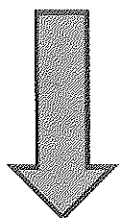
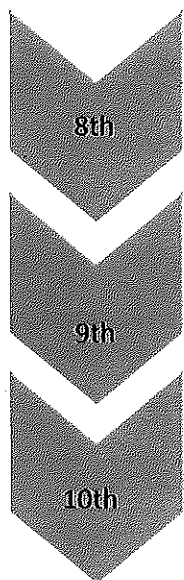
6th

930 DEP Sampling - Mobile Lab

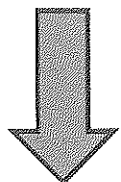
14:00 DEP - Dustin Wyant

14:00 DEP Investigation - Deborah Santilo

7th



Additional activities beyond 11/10/2014



12/18/2014 DEP Investigation/ Sampling – Brian Mummert/ D Santilo/D Morvay

01/27/15 & 01/28/2015 – DEP Investigations -- Deborah Santilo

2/17/2015 DEP Mobile Lab Sampling results

* These are the complainant calls received by the DEP. Many additional calls were placed To Lawrence County 911, Department of Public Safety.



- D. Wyant's 11/06/14 water sampling in manholes.

- ◆ -- DEP Mobile Lab 11/05/14 & 11/06/14 air sampling.

Location 6 is south off the scale of the map, it is located at N. Cedar Street near Valetino Cheese & Dairy.

Section 2

Complaint Information & Complaint Investigation Reports

5/15/2015 10:50:25 AM

Complaint Information**000 - EP NW Rgnl Off Meadville****Complainant Id(s):** 157185, 201352,
201768, 201807,
201856, 201857**Complaint Id:** 308426**Related Complaint Id:** 308594**County:** Lawrence**Municipality:** New Castle City**Entered By:** KIMBERLY M YEAKLE**After Hours (Y/N):** Y**Source:****ER Related (Y/N):** Y**Date Received:** 10/27/2014**Date Acknowledged:****Abbreviated Description:** Strong Odors in the City of New Castle

Long Description: ON 10/27/14, COMPLAINANT CONTACTED OUR AFTER HOURS EMERGENCY NUMBER AND SPOKE WITH DUTY OFFICER CYNDI SELBY TO REPORT THAT THERE WERE STRONG ODORS OBSERVED OUTSIDE THEIR WORKPLACE AROUND 1:00 PM. AT 5:00 PM, COMPLAINANT RETURNED TO THEIR WORKPLACE AND THE ODORS WERE STILL PRESENT. COMPLAINANT DESCRIBED THE ODOR AS GEAR OIL, GASOLINE, PROPANE TYPE OF SMELL. THE ODORS WERE SO STRONG THAT THEY BURNED COMPLAINANT'S EYES AND CAUSED A HEADACHE. COMPLAINANT INDICATED THAT NATIONAL FUEL GAS AND THE NEW CASTLE FIRE DEPARTMENT WERE INVESTIGATING.

AT 5:59, DUTY OFFICER SELBY CONTACTED ASSISTANT FIRE CHIEF KOBBE. HE INDICATED THAT THEY CHECKED THE AREA USING A TRI GAS METER. NO LEL, BUT THE SMELL WAS CONFIRMED AND BURNED HIS EYES AND NOSE. KOBBE SUSPECTS THAT ADVANCED WASTE IS THE SOURCE OF THE ODORS, BUT NOBODY WAS PRESENT AT THEIR FACILITY.

AT 12:58 AM ON 10/28/14 DUTY OFFICER SELBY RECEIVED A CALL FROM PEMA REPORTING THAT A RESIDENT ON NORTH CEDAR STREET WAS REPORTING STRONG CHEMICAL ODORS. NATIONAL FUEL GAS AND THE NEW CASTLE FIRE DEPARTMENT WERE DISPATCHED.

ON 10/29/14 AT 9:52 AM, COMPLAINANT #2 CALLED TO REPORT STRONG CAT URINE ODORS ON SAMPSON STREET; GRANT STREET AND INTO MAHONINGTOWN. COMPLAINANT #2 KNEW THAT DEP WAS ON SITE EARLIER IN THE WEEK AND WANTED TO KNOW IF WE DISCOVERED A SOURCE OF THE ODORS. COMPLAINANT #2 SAID THE ODORS ARE DEFINITELY MUCH WORSE THAN THEY HAVE BEEN.

ON 10/30/14 AT 9:30 AM, COMPLAINANT #3 CALLED TO REPORT THAT THE ODORS SEEM TO BE THE STRONGEST AROUND 6:00 PM. COMPLAINANT #3 HAD ALSO CONTACTED PEMA ON 10/27/14 TO REPORT ODORS ON N CEDAR STREET, WHICH WERE RELAYED TO DUTY OFFICER CYNDI SELBY.

ON 10/30/14 AT 2:00 PM, COMPLAINANT #4 CALLED TO REPORT THAT CAT URINE ODORS WERE OBSERVED ON 10/29 AND COULD BE SMELLED IN UNION TOWNSHIP. COMPLAINANT #4 CALLED LATER IN THE DAY TO REPORT THAT THEIR SPOUSE WORKS AT A BUSINESS ON MORAVIA STREET AND ODORS HAVE BEEN PRESENT EACH MORNING AROUND 6:30 AM

Responsible Party Information**Name:****Home Phone:****Company Name:** ADVANCED WASTE SVC**Work Phone:** 724-657-8777**Ext:****Permit#:****Mobile Phone:****County:** Lawrence**Municipality:****Address:** 101 RIVER PARK DR
NEW CASTLE, PA 16101**Response Information****Priority:** 2**Date Referred:****Program:** Waste Management**Referred To:****Complaint Type:** Odor**Date Resolved:** 05/08/2015**ate Response Assigned:** 10/28/2014**Date Reponse Due:** 11/11/2014**Date First Response:** 10/29/2014

Inspector: DEBORAH L SANTILO

Supervisor: BRIAN A MUMMERT

Comments:

Investigation Information

Date Assigned: 11/26/2014

Date Investigated:

Type: Other

Inspector: KIMBERLY M YEAKLE

Violation (Y/N): N

eFACTS Inspection Id:

Investigation Id: 317860

Investigation Description: Samples collected on 11/6/14 by Dustin Wyant, DEP Emergency Response Coordinator, can be found under Complaint ID 308594.

ON 12/5/14 COMPLAINANT #5 SENT AN E-MAIL INDICATING THAT THEY OBSERVED ODORS ON 11/15/14 AROUND 9:00 PM. ODORS WERE OBSERVED WHILE TRAVELING ON SR 376 JUST PAST THE MOUNT JACKSON EXIT (HEADING TOWARDS NEW CASTLE).

ON 11/30/14 COMPLAINANT #6 CALLED TO REPORT CAT URINE ODORS IN THE BASEMENT OF THEIR RESIDENCE. ODORS WERE OBSERVED BETWEEN 11:30 AND NOON. COMPLAINANT #6 HAS A SEPARATE COMPLAINT RECORD (#308561).

ON 12/11/14 AT APPROXIMATELY 9:20 PM, A NEW CASTLE DISTRICT OFFICE EMPLOYEE OBSERVED A STRONG CAT URINE ODOR ON ROUTE 18 NEAR THE WASTEWATER TREATMENT PLANT. THEY WERE HEADING SOUTH ON ROUTE 18. THE ODORS LINGERED FOR APPROXIMATELY 3/4 MILE (STARTED OUT AS A CAT URINE TYPE ODOR AND THEN CHANGED TO MORE OF A PETROLEUM TYPE ODOR).

Date Assigned: 10/28/2014

Date Investigated: 10/29/2014

Type: Site Visit

Inspector: DEBORAH L SANTILO

Violation (Y/N): N

eFACTS Inspection Id:

Investigation Id: 317211

Investigation Description: Spoke to NCFD Assistant Fire Chief regarding their response on 10/28/14. Source undetermined.

Date Assigned: 10/28/2014

Date Investigated: 10/29/2014

Type: Site Visit

Inspector: DEBORAH L SANTILO

Violation (Y/N): N

eFACTS Inspection Id:

Investigation Id: 317216

Investigation Description: Advanced Waste Systems. Met with E. Saenz and T. Wendler. Pulled samples and internal analysis from 16 incoming clients for 10/25/14 - 10/27/14. Form U's/generator statement reviewed in the office by D. Morvay. Nothing of note. No odors noted onsite during visit.

Date Assigned: 10/28/2014

Date Investigated: 10/29/2014

Type: Site Visit

Inspector: DEBORAH L SANTILO

Violation (Y/N): N

eFACTS Inspection Id:

Investigation Id: 317213

Investigation Description: Spoke to J. McElhenny with the New Castle Sanitation Authority. Odors also noted at the plant. Staff pulled manhole covers in the vicinity of Sampson, Bailey and River Park Drive on 10/28/14; manhole at Sampson St. is Advanced Waste; manhole at driveway (Bailey Dr) is West Penn Printing and Vortex.

Date Assigned: 10/28/2014

Date Investigated: 10/30/2014

Type: Site Visit

Inspector: DEBORAH L SANTILO

Violation (Y/N): N

eFACTS Inspection Id:

Investigation Id: 317218

Investigation Description: Conducted an inspection at West Penn Printing due to related odors; reviewed washes, developers (non-VOC), inks (soy based). Minimal disposal. No odors detected during this visit.

Date Assigned: 10/28/2014

Date Investigated: 10/30/2014

Type: Site Visit

Inspector: DEBORAH L SANTILO

Violation (Y/N): N

eFACTS Inspection Id:

Investigation Id: 317236

Investigation Description: Tanner Industries. No complaints of odors or odors detected at this site. Site distributed ammonia products by cyclander and tanker truck. No incidents; perimeter armed with detectors; nothing detected.



INVESTIGATION REPORT

5/15/2015 10:50:25 AM

Date Assigned: 10/28/2014	Date Investigated: 10/30/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317235	
Investigation Description: NCSD Bus Garage: Complaint of odors; smelled like cat urine. Thought to be coming from open grate at front door. No odors detected during this visit.		
Date Assigned: 10/28/2014	Date Investigated: 10/30/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317222	
Investigation Description: Conducted site visit at Reliable Lumber due to reported odors in the vicinity. Spoke to J. DeLuca and yard crew. Odors strong; seemed to come from curb drain; sewer/storm drain grates through middle of mill. Mild odors detected.		
Date Assigned: 10/28/2014	Date Investigated: 11/03/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317237	
Investigation Description: Vortex: Fac investigated due to proximity to odors. No odors detected at time of visit. Company recycles vehicle waste oil filters through mechanical crushing and waste oil collection. Nothing noted associated with odors.		
Date Assigned: 10/28/2014	Date Investigated: 11/03/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317239	
Investigation Description: NCSD Bus Garage: Follow up. no odors detected. Staff onsite indicated they had been reoccurring.		
Date Assigned: 10/28/2014	Date Investigated: 11/03/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317238	
Investigation Description: West Penn Printing: Complaint of odor. Odors vaguely noticable while onsite. Source not identified.		
Date Assigned: 10/28/2014	Date Investigated: 11/06/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317299	
Investigation Description: Adv Waste. Check flow meters for effluent. Only daily start and end reading taken.		
Date Assigned: 10/28/2014	Date Investigated: 11/06/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317298	
Investigation Description: Union Twp Sewage. Owned by NCSA. Tie in of interest is north of vortex on Sampson drive. comes through ravine by George St. Found manhole. Lifted cover; lite flow; no odors.		
Date Assigned: 10/28/2014	Date Investigated: 11/06/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317297	
Investigation Description: NCSA - follow up to sewer system with tie ins to Union and Neshannock Twp		
Date Assigned: 10/28/2014	Date Investigated: 11/06/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 317300	
Investigation Description: ESCO. Refractory mfg along Sampson St. Negligable liquid waste generated. Walked rail line to look at tankers; nothing of interst. Staff indicated often trespassing activity in Shenango plant behind them.		
Date Assigned: 10/28/2014	Date Investigated: 11/17/2014	Type: Site Visit

INVESTIGATION REPORT

5/15/2015 10:50:25 AM

Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id: 2325333	Investigation Id: 318934	
Investigation Description: RTN RW Proc Insp at Adv Waste Services. Violation noted: failure in implement odor control plan; failure to post proper signs; fugitive air contaminants controls not installed; surface water discharge w/o permit; failure to update PPC Plan; failure to renotify EPA id#		
Date Assigned: 10/28/2014	Date Investigated: 11/17/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): Y	
eFACTS Inspection Id:	Investigation Id: 317868	
Investigation Description: RW Proc/RW Gen inspections conducted. Could not identify cause of odors. No odors present at time of inspections.		
Date Assigned: 10/28/2014	Date Investigated: 11/17/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): Y	
eFACTS Inspection Id: 2325333	Investigation Id: 320461	
Investigation Description: AWS: Routing RW proc/gen insp.		
Date Assigned: 10/28/2014	Date Investigated: 11/20/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): Y	
eFACTS Inspection Id: 2324408	Investigation Id: 318936	
Investigation Description: RTN RW Gen Insp Advance Waste Services. Viol Noted: Failure to minimize runoff; drum mgt.		
Date Assigned: 10/28/2014	Date Investigated: 11/25/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): Y	
eFACTS Inspection Id: 2324413	Investigation Id: 318938	
Investigation Description: Gen Insp Advanced Waste Services. Viols: Failure to notify for PBR for container processing		
Date Assigned: 10/28/2014	Date Investigated: 12/03/2014	Type: Other
Inspector: DEBORAH L SANTILO	Violation (Y/N): Y	
eFACTS Inspection Id: 318001	Investigation Id: 318940	
Investigation Description: NOV re viols observed 10/29/14, 11/17/14, 11/20/14 and 11/25/14.		
Date Assigned: 10/28/2014	Date Investigated: 12/18/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): Y	
eFACTS Inspection Id: 2330971	Investigation Id: 320462	
Investigation Description: AWS: Followup to 111714 and 112514 insp.		
Date Assigned: 10/28/2014	Date Investigated: 12/18/2014	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id: 2330971	Investigation Id: 318941	
Investigation Description: Follow up/sampling insp. Remediating violations in progress. Sample of oil/organic effluent discharge.		
Date Assigned: 10/28/2014	Date Investigated: 01/27/2015	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id: 2340392	Investigation Id: 320454	
Investigation Description: New Castle Feedscrews: inspection to eliminate company as possible odor source vicinity of Sampson St.		
Date Assigned: 10/28/2014	Date Investigated: 01/27/2015	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	

INVESTIGATION REPORT

5/15/2015 10:50:25 AM

eFACTS Inspection Id: 2342489	Investigation Id: 320456	
Investigation Description: Hercules Painting Company: inspection to eliminate company as possible odor source vicinity of Sampson St.		
Date Assigned: 10/28/2014	Date Investigated: 01/28/2015	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id: 2341215	Investigation Id: 320457	
Investigation Description: West Penn Printing: Routine/followup regarding solvent use at the facility. Minimal use at facility.		
Date Assigned: 10/28/2014	Date Investigated: 02/12/2015	Type: Site Visit
Inspector: DEBORAH L SANTILO	Violation (Y/N): Y	
eFACTS Inspection Id: 2344478	Investigation Id: 320464	
Investigation Description: AWS - Follow up.		
Date Assigned: 10/28/2014	Date Investigated: 05/08/2015	Type: Phone Call
Inspector: DEBORAH L SANTILO	Violation (Y/N): N	
eFACTS Inspection Id:	Investigation Id: 322474	
Investigation Description: Spoke to four complainants; left message with two complainants. Report of investigation findings to be available at the NWRO next month. Should complainants want to review the report, please schedule a file review at NWRO.		

0 open complaints for ADVANCED WASTE SVC

5/15/2015 10:50:25 AM

Complaint Information

4500 - EP NW Rgnl Off Meadville

Complainant Id(s): 157185, 201352,
201768, 201807,
201856, 201857

Complaint Id: 308426

Related Complaint Id: 308594

County: Lawrence

Municipality: New Castle City

Entered By: KIMBERLY M YEAKLE

After Hours (Y/N): Y

Source:

ER Related (Y/N): Y

Date Received: 10/27/2014

Date Acknowledged:

Abbreviated Description: Strong Odors in the City of New Castle

Long Description: ON 10/27/14, COMPLAINANT CONTACTED OUR AFTER HOURS EMERGENCY NUMBER AND SPOKE WITH DUTY OFFICER CYNDI SELBY TO REPORT THAT THERE WERE STRONG ODORS OBSERVED OUTSIDE THEIR WORKPLACE AROUND 1:00 PM. AT 5:00 PM, COMPLAINANT RETURNED TO THEIR WORKPLACE AND THE ODORS WERE STILL PRESENT. COMPLAINANT DESCRIBED THE ODOR AS GEAR OIL, GASOLINE, PROPANE TYPE OF SMELL. THE ODORS WERE SO STRONG THAT THEY BURNED COMPLAINANT'S EYES AND CAUSED A HEADACHE. COMPLAINANT INDICATED THAT NATIONAL FUEL GAS AND THE NEW CASTLE FIRE DEPARTMENT WERE INVESTIGATING.

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ON 10/30/14 AT 2:00 PM, COMPLAINANT #4 CALLED TO REPORT THAT CAT URINE ODORS WERE OBSERVED ON 10/29 AND COULD BE SMELLED IN UNION TOWNSHIP. COMPLAINANT #4 CALLED LATER IN THE DAY TO REPORT THAT THEIR SPOUSE WORKS AT A BUSINESS ON MORAVIA STREET AND ODORS HAVE BEEN PRESENT EACH MORNING AROUND 6:30 AM

Responsible Party Information

Name:

Home Phone:

Company Name: ADVANCED WASTE SVC

Work Phone: 724-657-8777

Ext:

Permit#:

Mobile Phone:

County: Lawrence

Municipality:

Address: 101 RIVER PARK DR
NEW CASTLE, PA 16101**Response Information**

Priority: 1

Date Referred:

Program: Emergency Response

Referred To:

Complaint Type: Air Contamination

Date Resolved: 10/27/2014

Date Response Assigned: 10/27/2014

Date Response Due: 10/27/2014

Date First Response: 10/27/2014

5/15/2015 10:50:25 AM

Inspector: SCOTT M DUDZIC**Supervisor:** CYNTHIA A SELBY**Comments:****Investigation Information****Date Assigned:** 10/27/2014**Date Investigated:** 10/27/2014**Type:** Site Visit**Inspector:** SCOTT M DUDZIC**Violation (Y/N):** N**eFACTS Inspection Id:****Investigation Id:** 317002

Investigation Description: ER Duty Officer, Cyndi Selby, requested that I respond to an unknown odor in the City of New Castle. The City of New Castle Fire Department was contacted at 1723 hours regarding a pungent odor near the Advance Waste Services facility located at 101 River Park Drive.

At 2015 hours, I met Mike Kobbe, Asst Fire Chief (724-699-0892), at Advance Waste Services. The facility could not be accessed due to a locked gate. Vehicles were present but no one appeared to be present at the facility as all lights were off. A pungent odor could be observed when slight winds were present. The odor could not be directly identified but smelled like a mixture of a heavy weight gear oil and antifreeze. I walked the fence line of the property and along rail cars that were located outside of the locked fence but could not detect any measurements with the multirae instrument.

Kobbe indicated that the odor complaint call that he received at 1723 hours came from Reliable Lumber (41° 00' 18.7" / 80° 21' 32.6"), a business located approximately ¼ mile from Advance Waste Services. Kobbe did not detect any measurement on the tri-gas meter that he was using continuously during his response, but he was able to smell an odor with his nose when slight wind conditions were present. Kobbe indicated that multiple individuals at Reliable Lumber were complaining of burning sensations in the nostrils and eyes. No evacuations were necessary and no one received medical attention as a result of the odor. I checked the Reliable Lumber location at 1920 hours and could not detect any measurements with the multirae instrument, but an odor was observable without the instrument when wind was present.

At 1930 hours I looked at the Shenango River at the bridge crossing directly upstream of the Route 224 bridge crossing -- no sheen and no odor was observed.

Kobbe also received complaint calls regarding an odor at a residence along Wilmington Ave near Jamison Hospital. Kobbe again could detect the odor with his nose when windy conditions were present but could not detect any measurements on the tri-gas meter. AT 2140 hours I checked an area adjacent to the Jamison Hospital (41° 00' 45.1" / 80° 21' 11.4") but could not detect any odors with or without the multirae instrument.

I informed Kobbe to contact the DEP ER duty officer if additional odor complaints are received and the Fire Department determines that an evacuation of the affected area is necessary. This was a Fire Department response only, no police were involved.

0 open complaints for ADVANCED WASTE SVC

5/15/2015 10:50:25 AM

Complaint Information

400 - EP NW Rgnl Off Meadville

Complainant Id(s): 157185, 201352,
201768, 201807,
201856, 201857

Complaint Id: 308426

Related Complaint Id: 308594

County: Lawrence

Municipality: New Castle City

Entered By: KIMBERLY M YEAKLE

After Hours (Y/N): Y

Source:

ER Related (Y/N): Y

Date Received: 10/27/2014

Date Acknowledged:

Abbreviated Description: Strong Odors in the City of New Castle

Long Description: ON 10/27/14, COMPLAINANT CONTACTED OUR AFTER HOURS EMERGENCY NUMBER AND SPOKE WITH DUTY OFFICER CYNDI SELBY TO REPORT THAT THERE WERE STRONG ODORS OBSERVED OUTSIDE THEIR WORKPLACE AROUND 1:00 PM. AT 5:00 PM, COMPLAINANT RETURNED TO THEIR WORKPLACE AND THE ODORS WERE STILL PRESENT. COMPLAINANT DESCRIBED THE ODOR AS GEAR OIL, GASOLINE, PROPANE TYPE OF SMELL. THE ODORS WERE SO STRONG THAT THEY BURNED COMPLAINANT'S EYES AND CAUSED A HEADACHE. COMPLAINANT INDICATED THAT NATIONAL FUEL GAS AND THE NEW CASTLE FIRE DEPARTMENT WERE INVESTIGATING.

AT 5:59, DUTY OFFICER SELBY CONTACTED ASSISTANT FIRE CHIEF KOBBE. HE INDICATED THAT THEY CHECKED THE AREA USING A TRI GAS METER. NO LEL, BUT THE SMELL WAS CONFIRMED AND BURNED HIS EYES AND NOSE. KOBBE SUSPECTS THAT ADVANCED WASTE IS THE SOURCE OF THE ODORS, BUT NOBODY WAS PRESENT AT THEIR FACILITY.

AT 12:58 AM ON 10/28/14 DUTY OFFICER SELBY RECEIVED A CALL FROM PEMA REPORTING THAT A RESIDENT ON NORTH CEDAR STREET WAS REPORTING STRONG CHEMICAL ODORS. NATIONAL FUEL GAS AND THE NEW CASTLE FIRE DEPARTMENT WERE DISPATCHED.

ON 10/29/14 AT 9:52 AM, COMPLAINANT #2 CALLED TO REPORT STRONG CAT URINE ODORS ON SAMPSON STREET; GRANT STREET AND INTO MAHONINGTOWN. COMPLAINANT #2 KNEW THAT DEP WAS ON SITE EARLIER IN THE WEEK AND WANTED TO KNOW IF WE DISCOVERED A SOURCE OF THE ODORS. COMPLAINANT #2 SAID THE ODORS ARE DEFINITELY MUCH WORSE THAN THEY HAVE BEEN.

ON 10/30/14 AT 9:30 AM, COMPLAINANT #3 CALLED TO REPORT THAT THE ODORS SEEM TO BE THE STRONGEST AROUND 6:00 PM. COMPLAINANT #3 HAD ALSO CONTACTED PEMA ON 10/27/14 TO REPORT ODORS ON N CEDAR STREET, WHICH WERE RELAYED TO DUTY OFFICER CYNDI SELBY.

ON 10/30/14 AT 2:00 PM, COMPLAINANT #4 CALLED TO REPORT THAT CAT URINE ODORS WERE OBSERVED ON 10/29 AND COULD BE SMELLED IN UNION TOWNSHIP. COMPLAINANT #4 CALLED LATER IN THE DAY TO REPORT THAT THEIR SPOUSE WORKS AT A BUSINESS ON MORAVIA STREET AND ODORS HAVE BEEN PRESENT EACH MORNING AROUND 6:30 AM

Responsible Party Information

Name:

Home Phone:

Company Name: ADVANCED WASTE SVC

Work Phone: 724-657-8777

Ext:

Permit#:

Mobile Phone:

County: Lawrence

Municipality:

Address: 101 RIVER PARK DR
NEW CASTLE, PA 16101**Response Information**

Priority: 2

Date Referred:

Program: Clean Water

Referred To:

Complaint Type: Odor

Date Resolved: 01/08/2015

Date Response Assigned: 01/08/2015

Date Response Due: 01/22/2015

Date First Response: 01/08/2015



5/15/2015 10:50:25 AM

Inspector: CHRISTINA S NAGY

Supervisor: JOHN A HOLDEN

Comments:

Investigation Information

Date Assigned: 01/08/2015

Date Investigated:

Type: Phone Call

Inspector: CHRISTINA S NAGY

Violation (Y/N): N

eFACTS Inspection Id:

Investigation Id: 318927

Investigation Description: I was asked to contact the New Castle WWTP in response to a report filed with the National Response Center indicating a cat urine odor observed near the Wastewater Treatment Plant. At 1330 hours, I spoke with New Castle WWTP Superintendent Joe McIlvenny who stated that he noted a small whiff of cat urine odor around 0730 hours. He said it was not a strong smell and was not present at the time of my call. Joe stated that the odor occurs very randomly, as he may smell it the next day and then not for a week. I asked him to start keeping a log of when there is a cat urine odor observed at the WWTP.

0 open complaints for ADVANCED WASTE SVC

Complaint Information**4500 - EP NW Rgnl Off Meadville****Complaint Id:** 308504**County:** Lawrence**Entered By:** KIMBERLY M YEAKLE**Source:****Date Received:** 10/29/2014**Abbreviated Description:** Cat Urine Odors in City of New Castle**Long Description:** DEP employee Cyndi Selby was heading home from the New Castle District Office and called to report a very strong smell of cat urine on Sampson Street.**Complainant Id(s):****Related Complaint Id:** 308426**Municipality:** New Castle City**After Hours (Y/N):** Y**ER Related (Y/N):** Y**Date Acknowledged:****Responsible Party Information****Name:****Company Name:** ADVANCED WASTE SVC**Permit#:****County:** Lawrence**Address:** 101 RIVER PARK DR
NEW CASTLE, PA 16101**Home Phone:****Work Phone:** 724-657-8777**Ext:****Mobile Phone:****Municipality:****Response Information****Priority:** 1**Program:** Emergency Response**Complaint Type:** Air Contamination**Date Response Assigned:** 10/29/2014**Date Reponse Due:** 10/29/2014**Date First Response:** 10/29/2014**Inspector:** LARRY R MUHA**Comments:****Date Referred:****Referred To:****Date Resolved:** 10/29/2014**Supervisor:** GORDON P BUCKLEY**Investigation Information****Date Assigned:** 10/29/2014**Date Investigated:** 10/29/2014**Type:** Site Visit**Inspector:** LARRY R MUHA**Violation (Y/N):** N**eFACTS Inspection Id:****Investigation Id:** 317065

Investigation Description: A complainant reported that there was a strong smell of "cat urine" on Sampson St. just across the road from the Advanced Waste pretreatment plant. This odor sometimes burned the persons' noses and throats and made them nauseated. There had also been reports of the strong odor on Grant St, Harbor St. and Mahoningtown. I talked with Joe and Eli at the pretreatment plant. They both mentioned that Brian Mummert, Solid Waste Specialist Supervisor and Deb Santillo, Solid Waste Specialist had inspected the plant earlier today. I asked Joe to show me the process. They were treating a liquid waste from the GE Grove City plant that arrived by truck tanker earlier. This waste product had the following contaminants; Ag, Ar, As, Cd, Co, Cr, Cu, Fe, Ni, Pb, Sb, Ti, V, Zn and 2 isotopes of Al. The pretreated waste stream pictured contained these contaminants at a much lower concentration. The VOCs in the waste stream flume were 3.8-7.5. I also tested the VOCs in a tank that was run earlier in the day from a railcar from Safety Kleen. The results were similar. I tested the manhole openings outside the plant at the first and second available locations. The VOCs were barely detectable (0.1-1.0). I talked with residents on Harbor St., with residents of an apartment complex and a powder coating facility on Grant St. They said the smell of "cat urine" was strong and Facebook users were reporting the smell on the West, South and East sides of town. I stopped at the New Castle Fire Station and they verified those reports. I stopped at the New Castle WWTP and spoke with Joe McElhenny on the phone. He said that the sewer crew drew a sample of the effluent at the first available manhole outside of Advanced Waste just a few hours before and were going to have the effluent tested. I asked him what he was going to test for. He said he didn't know. Apparently when the crew opened the manhole cover the smell almost knocked them off their feet. This manhole is shared by two other businesses, one of which is a printing facility. Is the waste stream of these businesses mixing and causing these odor problems?

0 open complaints for ADVANCED WASTE SVC

5/15/2015 10:50:25 AM

Complaint Information**4600 - EP NW Rgnl Off Meadville****Complainant Id(s): 157185****Complaint Id: 308561****Related Complaint Id: 308426****County: Lawrence****Municipality: New Castle City****Entered By: KIMBERLY M YEAKLE****After Hours (Y/N): N****Source:****ER Related (Y/N): Y****Date Received: 11/03/2014****Date Acknowledged:****Abbreviated Description: Cat Urine Odors in City of New Castle****Long Description:** Complainant contacted the New Castle District Office to report a cat urine odor coming from the basement of their residence. The odor was observed between 11:30 and Noon. Complainant said it is typically smelled during this time and then again in the evening hours.**Responsible Party Information****Name:****Home Phone:****Company Name: ADVANCED WASTE SVC****Work Phone: 724-657-8777****Ext:****Permit#:****Mobile Phone:****County: Lawrence****Municipality:****Address: 101 RIVER PARK DR
NEW CASTLE, PA 16101****Response Information****Priority: 1****Date Referred:****Program: Emergency Response****Referred To:****Complaint Type: Air Contamination****Date Resolved: 11/03/2014****Date Response Assigned: 11/03/2014****Date Response Due: 11/03/2014****Date First Response: 11/03/2014****Inspector: DUSTIN C WYANT****Supervisor: GORDON P BUCKLEY****Comments:**

Investigation Information**Date Assigned:** 11/03/2014**Date Investigated:** 11/03/2014**Type:** Site Visit**Inspector:** DUSTIN C WYANT**Violation (Y/N):** N**eFACTS Inspection Id:****Investigation Id:** 317169

Investigation Description: A complainant reported that there was a strong smell of "cat urine" on Sampson Street in the City of New Castle. I met with the New Castle Fire Chief, Mike Petrone (724) 333-5342, 2 staff members from the New Castle Sewer Authority (Chuck and Mark) and Martha Michalek from Emergency Response SWRO. We first met at the intersection of Connector Street and Sampson Street to discuss how the sewer system is set up and this is where the Fire Chief noticed the odors earlier in the day. During our discussion there was the presence of the cat urine odor where we were standing. At this intersection there is a manhole cover (41° 0' 15.75", -80° 21' 33.50") where I placed my MultiRAE into the hole of the manhole cover and got the following readings: 44.6 ppm for VOC, 0% LEL, 20.4% O2, 0 ppm CO, 0 ppm H2S. Martha Michalek collected an air sample at this location to have Don Bialosky, SWRO ER Manager, run an in house air test on his Gas chromatography-mass spectrometry (GC-MS) to try and determine if any chemicals are present.

We then proceeded north on Sampson Street to the manhole cover on River Park Drive (41° 0' 43.09", -80° 21' 32.42") and got the following readings: 168 ppm VOC, 0% LEL, 20.1% O2, 0 ppm CO, 0 ppm H2S. The manhole cover is adjacent to where Advanced Waste Services lateral line connects to the New Castle Sewer System. While we were standing on River Park Drive, Advanced Waste Services was cleaning out railcars on the railroad tracks which put off a petroleum based odor. The presence of cat urine was also present at this location.

Mike Petrone, Martha Michalek and I then went to Advanced Waste Services and met with Plant Manager-Eli Saenz in the lobby where the presence of cat urine was also present. While standing in the lobby of Advanced Waste Services my MultiRAE showed the following readings: of 1.3 ppm VOC, 0% LEL, 21.2% O2, 0 ppm CO, 0 ppm H2S. Mr. Saenz took us into the plant to show where the fluid was discharged from the plant after it went through treatment at their facility. At this location there are 3 separate discharge (all 3 discharge points discharge directly into the sewer system) points where I got the following readings: 9.1 ppm VOC, 0% LEL, 21.2% O2, 0 ppm CO, 0 ppm H2S. Mr. Saenz then took Mike Petrone, Martha Michalek and I into their lab area where I received the following readings: 5.5 ppm VOC, 0% LEL, 21.2% O2, 0 ppm CO, 0 ppm H2S. Mr. Saenz explained how their facility works and said that someone from the New Castle Sewer Authority comes every week to collect a sample of what they discharge so the Sewer Authority can determine how much to charge Advanced Waste Services. While we were standing in the lab Chuck and Mark from the Sewer Authority entered and they confirmed that they smelled the cat urine odor in the lobby of Advanced Waste Services.

After our inspection of Advanced Waste Services Chuck and Mark took us to another manhole cover that was up gradient of Advanced Waste Services (41° 0' 45.12", -80° 21' 36.39") and got the following readings: 0 ppm VOC, 0% LEL, 21.2% O2, 0 ppm CO, 0 ppm H2S. We then travel up gradient to another manhole cover (41° 0' 49.62", -80° 21' 43.89") and got the following readings: 0 ppm VOC, 0% LEL, 21.2% O2, 0 ppm CO, 0 ppm H2S. While we were standing around comparing reading and talking about where we noticed the odor I asked Chuck and Mark from the Sewer Authority who goes to Advanced Waste Services every week to collect a sample, and they did not know. Chuck called Joe McIlvaney-Plant Manager for the Sewer Authority who told Chuck that no one from the Sewer Authority goes to Advanced Waste weekly to collect a sample. All MultiRAE readings were taken through the manhole cover openings or while the manhole covers were slightly lifted up.

0 open complaints for ADVANCED WASTE SVC



5/15/2015 10:50:25 AM

Complaint Information

600 - EP NW Rgnl Off Meadville

Complaint Id: 308594

County: Lawrence

Entered By: KIMBERLY M YEAKLE

Source:

Date Received: 11/04/2014

Complainant Id(s):

Related Complaint Id: 308426

Municipality: New Castle City

After Hours (Y/N): Y

ER Related (Y/N): Y

Date Acknowledged:

Abbreviated Description: Cat Urine Odors in City of New Castle

Long Description: DEP Employee Cyndi Selby was driving home and contacted Gordon Buckley to report strong cat urine odors near Sampson Street in the City of New Castle.

Responsible Party Information

Name:

Company Name: ADVANCED WASTE SVC

Permit#:

County: Lawrence

Address: 101 RIVER PARK DR
NEW CASTLE, PA 16101

Home Phone:

Work Phone: 724-657-8777 **Ext:**

Mobile Phone:

Municipality:

Response Information

Priority: 1

Program: Emergency Response

Complaint Type: Air Contamination

Date Response Assigned: 11/04/2014

Date Response Due: 11/04/2014

Date First Response: 11/04/2014

Inspector: DUSTIN C WYANT

Comments:

Date Referred:

Referred To:

Date Resolved: 11/04/2014

Supervisor: GORDON P BUCKLEY

5/15/2015 10:50:25 AM

Investigation Information**Date Assigned:** 11/04/2014**Date Investigated:** 11/04/2014**Type:** Site Visit**Inspector:** DUSTIN C WYANT**Violation (Y/N):** N**eFACTS Inspection Id:****Investigation Id:** 317220

Investigation Description: I was dispatched by Gordon Buckley to respond to a cat urine smell in the New Castle area. I met with the New Castle Fire Chief, Mike Petrone (724) 333-5342, 2 staff members from the New Castle Sewer Authority (Chuck and Mark) and Martha Michalek from Emergency Response SWRO. We first met at the intersection of Connector Street and Sampson Street to discuss how the sewer system is set up and look at the maps that show the locations of the manhole covers. During our discussion there was the presence of the cat urine odor where we were standing. We started checking the manhole covers for the presence of the odor starting at the intersection of Connector Street and Sampson Street and working our way up gradient until we reached George Drive, which is located north of Advanced Waste Services. First we would take a reading using 3 meters (Fire Chief/Martha/Dustin) checking the small openings on the manhole covers, if there was no holes present we asked the New Castle Sewer Authority to slightly crack the lid open so we could take a reading. While the meters were checking for VOCs, LEL, O2, CO, H2S an Ammonia Draeger tube was used to check for the presence of ammonia in the sewer lines. After the initial readings were taken the manhole cover was removed and a second reading was taking using the 3 meters. While all 5 people were standing at each manhole cover, I asked them if they smelled the presence of the cat urine odor, they answered with a Yes or No answer. The second question I asked was, when the manhole cover was removed did the cat urine odor smell get stronger, they answered with a Yes or No answer. While the manhole cover was removed it was noted if there was flow of water present in the sewer system also. All the data collection is provided in the excel spreadsheet that was attached in the email separately from this report. Philip Battista 724-333-5734 was also on site to give us access to Neshannock Twp. Sewer Lines. Mr. Battista said that their line is completely sealed off and no lateral lines connect to their main line. Mr. Battista also reported that he does not notice the cat urine odor at his pump station up gradient. Neshannock Twp Sewer Lines run parallel to the railroad tracks.

After we completed our survey of the sewer system, Mike Petrone, Martha Michalek and I went back to the intersection of Connector Street and Sampson Street and noticed the odor, once we all noticed the odor I asked if it smells like cat urine, all 3 of us said yes. We then proceeded to the intersection of River Park Drive and Bailey St (the fence line of Advanced Waste Services) and we noticed the same odor. I asked Martha and Mike if the smell they notice is the same as it was down at the intersection of Connector Street and Sampson Street, their answer was yes. After confirming the smell was the same we went back to the intersection of Connector Street and Sampson Street to smell the odor again. Mike, Martha and I all confirmed and agreed that we smelled the same odor at all 3 locations.

0 open complaints for ADVANCED WASTE SVC

ER Incident & Characterization Report

ERT Member: Dudzic			
Date of Incident/Call Out: 10/27/2014		Time Involved in Response: 4.5	
County: Lawrence	Municipality: City of New Castle	LAT: 41° 00' 40.6"	LONG: 80° 21' 31.6"
Location/Directions: travel on Route 224 West from New Castle, turn right onto Route 422, travel approximately ½ mile to Advance Waste Services on your right			
What Happened: ER Duty Officer, Cyndi Selby, requested that I respond to an unknown odor in the City of New Castle. The City of New Castle Fire Department was contacted at 1723 hours regarding a pungent odor near the Advance Waste Services facility located at 101 River Park Drive. At 2015 hours, I met Mike Kobbe, Asst Fire Chief (724-699-0892), at Advance Waste Services. The facility could not be accessed due to a locked gate. Vehicles were present but no one appeared to be present at the facility as all lights were off. A pungent odor could be observed when slight winds were present. The odor could not be directly identified but smelled like a mixture of a heavy weight gear oil and antifreeze. I walked the fence line of the property and along rail cars that were located outside of the locked fence but could not detect any measurements with the multirae instrument. Kobbe indicated that the odor complaint call that he received at 1723 hours came from Reliable Lumber (41° 00' 18.7" / 80° 21' 32.6"), a business located approximately ¼ mile from Advance Waste Services. Kobbe did not detect any measurement on the tri-gas meter that he was using continuously during his response, but he was able to smell an odor with his nose when slight wind conditions were present. Kobbe indicated that multiple individuals at Reliable Lumber were complaining of burning sensations in the nostrils and eyes. No evacuations were necessary and no one received medical attention as a result of the odor. I checked the Reliable Lumber location at 1920 hours and could not detect any measurements with the multirae instrument, but an odor was observable without the instrument when wind was present. At 1930 hours I looked at the Shenango River at the bridge crossing directly upstream of the Route 224 bridge crossing – no sheen and no odor was observed. Kobbe also received complaint calls regarding an odor at a residence along Wilmington Ave near Jamison Hospital. Kobbe again could detect the odor with his nose when windy conditions were present but could not detect any measurements on the tri-gas meter. AT 2140 hours I checked an area adjacent to the Jamison Hospital (41° 00' 45.1" / 80° 21' 11.4") but could not detect any odors with or without the multirae instrument. I informed Kobbe to contact the DEP ER duty officer if additional odor complaints are received and the Fire Department determines that an evacuation of the affected area is necessary. This was a Fire Department response only, no police were involved.			

Responsible Party

Individual's Name:	Home Phone:
Company Name: Unknown (possibly Advance Waste Services)	Mobile Phone:
Address: 101 River Park Drive New Castle, PA 16101	Work Phone:

Cleanup Contractor

Individual's Name: NA	Home Phone:
Company Name:	Mobile Phone:
Address:	Work Phone:

Site Characterization

Evacuations: No	Injuries: No	Fatalities: No
Substance Released: unknown	Name of Substance:	
Potential Release:	Amount Released:	Amount Recovered:

Waterway Affected: unknown		Side of the Stream Substance Entered (<i>facing downstream</i>):	
Atmosphere Affected: unknown		Land/Soil Affected: unknown	
Other Responders on Scene: New Castle City Fire Department			
Police Report # none			
Contaminant present: unknown		Name of Contaminant:	
Chemical Abstracts Service (CAS) Number:		PEL:	References Used:
Physical/Chemical Description:			
Monitoring Results: LEL: 0 O2: 20.9% PID: 0 CO: 0 H2S: 0 RAD: NA			
Date of Monitoring: 10/27/2014 Time of Monitoring: 2015 to 2145 Location of Monitoring: various locations – see text			
Weather Conditions: mid 60's, slight breeze, no rain			

ER Incident & Characterization Report

ERT Member: Muha				
Date of Incident/Call Out: 10/29/2014		Time Involved in Response: 16:15-20:00 hours		
County: Lawrence	Municipality: City of New Castle	LAT: 41° 00' 41.5"	LONG: 80° 21' 29.9"	
Location/Directions: Advanced Waste Services are located at 101 River Park Dr., New Castle, PA.				
What Happened: A complainant reported that there was a strong smell of "cat urine" on Sampson St. just across the road from the Advanced Waste pretreatment plant. This odor sometimes burned the persons' noses and throats and made them nauseated. There had also been reports of the strong odor on Grant St, Harbor St. and Mahoningtown. I talked with Joe and Eli at the pretreatment plant. They both mentioned that Brian Mummert, Solid Waste Specialist Supervisor and Deb Santillo, Solid Waste Specialist had inspected the plant earlier today. I asked Joe to show me the process. They were treating a liquid waste from the GE Grove City plant that arrived by truck tanker earlier. This waste product had the following contaminants; Ag, Ar, As, Cd, Co, Cr, Cu, Fe, Ni, Pb, Sb, Ti, V, Zn and 2 isotopes of Al. The pretreated waste stream pictured contained these contaminants at a much lower concentration. The VOCs in the waste stream flume were 3.8-7.5. I also tested the VOCs in a tank that was run earlier in the day from a railcar from Safety Kleen. The results were similar. I tested the manhole openings outside the plant at the first and second available locations. The VOCs were barely detectable (0.1-1.0). I talked with residents on Harbor St., with residents of an apartment complex and a powder coating facility on Grant St. They said the smell of "cat urine" was strong and Facebook users were reporting the smell on the West, South and East sides of town. I stopped at the New Castle Fire Station and they verified those reports. I stopped at the New Castle WWTP and spoke with Joe McElhenny on the phone. He said that the sewer crew drew a sample of the effluent at the first available manhole outside of Advanced Waste just a few hours before and were going to have the effluent tested. I asked him what he was going to test for. He said he didn't know. Apparently when the crew opened the manhole cover the smell almost knocked them off their feet. This manhole is shared by two other businesses, one of which is a printing facility. Is the waste stream of these businesses mixing and causing these odor problems?				

Responsible Party

Individual's Name:	Eli Saenz, Plant Mgr and Paul Mehal, Permits Mgr.	Home Phone:
Company Name:	Advanced Waste Services of PA	Mobile Phone:
Address:	101 River Park Dr., New Castle, PA 16101	Work Phone: 724-698-1623

Cleanup Contractor

Individual's Name:	Home Phone:
Company Name:	Mobile Phone:
Address:	Work Phone:

Site Characterization

Evacuations: No	Injuries: No	Fatalities: No
Substance Released: Yes	Name of Substance: Unknown	
Potential Release:	Amount Released:	Amount Recovered:
Waterway Affected: No	Side of the Stream Substance Entered (<i>facing downstream</i>):	
Atmosphere Affected: Not at the time of my monitoring	Land/Soil Affected: No	
Other Responders on Scene:		
Police Report #		
Contaminant present:	Name of Contaminant:	

Chemical Abstracts Service (CAS) Number:	PEL:	References Used:
Physical/Chemical Description:		
Monitoring Results: LEL: 0 O2: 20.9 PID: 0.1-7.5 CO: 0 H2S: 0 RAD:		
Date of Monitoring: 10/29/14 Time of Monitoring: 16:30-18:30 hours Location of Monitoring: Throughout the affected area		
Weather Conditions: Dry, light west wind, sunny-dark with temperatures in the 40s		





COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

GENERAL INSPECTION REPORT

Type of Inspection NC Odor Complaint	WM Identification Number N/A	Entry Time/Date 10/30/14 1400	Exit Time/Date 10/30/14 1430
Facility/Incident Name and Location Tanner Industries 501 Industrial Dr. New Castle, PA 16101			Municipality New Castle
Name, Address of Responsible Official Scott Headley			County Lawrence
		Title Operator	
		Telephone 800-643-6226	Interviewed Yes XX No
REMARKS:			

On site to conduct an inspection regarding complaints of odors in the area. Scott Headley represented Tanner; I represented the Dept.

Strong odors described as smelling like cat urine have been reported in the area of Sampson and Grant Streets beginning the evening of 10/27/14. Tanner is an ammonia distributor of anhydrous and aqua ammonia. A tank farm outside is contained and air quality monitored. Product is received via tanker truck. It is off-loaded to the tank farm using hoses for transfer and for vapor collection. Collected vapors are condensed back into product. Inside product is stored in various sized cylinders. S. Headley indicated that the facility had not had an incident of release in the recent past.

This inspection did not reveal anything that might be associated with the odors. -- End -

Client 5316
Site 788197

Inspector Name D. Santillo	Inspector Signature 	Headquarters New Castle DO 121 N. Mill St. New Castle, PA 16101	Date 11/12/14
			Telephone 724-656-3195
Person Interviewed Name	Signature of Person Interviewed Mailed to S. Headley 11/12/14	Title	Telephone

This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning other violations noted herein, or other violations identified as a result of review of laboratory analyses or Department records.
This report does not constitute an order or other enforceable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.
Signature by the person interviewed does not necessarily imply concurrence with the finding on this report, but does acknowledge that the person was shown in the report or that a copy was left with the person.

Reg # 111 Fec
CFACB 2320548



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

GENERAL INSPECTION REPORT

Type of Inspection Odor Complaint	WM Identification Number PAR000508549	Entry Time/Date 10/30/14 0930 11/3/14 1230	Exit Time/Date 10/30/14 1030 11/3/14 1300
Facility/Incident Name and Location West Penn Printing ("WWP") 103 River Park Dr. New Castle, PA 16101			Municipality New Castle County Lawrence
Name, Address of Responsible Official Brad Susen 103 River Park Dr. New Castle, PA 16101		Title Production Director Telephone 724-546-2020 Interviewed Yes XX No	
REMARKS:			

On site each day to conduct an inspection regarding complaints of odors in the area. Brad Susen represented WWP; I represented the Dept.

Strong odors described as smelling like cat urine have been reported in the area of Sampson and Grant Streets beginning the evening of 10/27/14. B. Susen indicated that the WWP building was also getting terrible smells from the air handlers. The plate developing room that was air conditioned did not have odors.

B. Susen gave me a brief tour of the facility and the operation. WWP has converted to soy based inks and non-toxic roller and plate cleaners, developers and finishers. The facility sends a minimal amount of industrial waste water to the New Castle Sanitation Authority.

Nothing was observed that might be linked to the odors. - End -

Inspector Name D. Santilo	Inspector Signature 	Headquarters New Castle DO 121 N. Mill St. New Castle, PA 16101	Date 11/12/14 Telephone 724-656-3195
Person Interviewed Name	Signature of Person Interviewed Mailed to B. Susen 11/12/14	Title	Telephone
This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning other violations noted herein, or other violations identified as a result of review of laboratory analyses or Department records. This report does not constitute an order or other enforceable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein. Signature by the person interviewed does not necessarily imply concurrence with the finding on this report, but does acknowledge that the person was shown in the report or that a copy was left with the person.			

Page 1 of 1

Reg Fac
10/30/14 eFacts 2326424
11/3/14 eFacts 2320430

DC 110137



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

GENERAL INSPECTION REPORT

Type of Inspection Odor Complaint	WM Identification Number WMGR104	Entry Time/Date 11/3/14 1300	Exit Time/Date 11/3/14 1330
Facility/Incident Name and Location Vortex Recycling 61 River Park Dr. New Castle, PA 16101			Municipality New Castle
Name, Address of Responsible Official Dave Spellman 61 River Park Dr. New Castle, PA 16101			County Lawrence
		Title General Manager	
		Telephone 724-657-0333	Interviewed Yes XX No
REMARKS:			

On site to conduct an inspection regarding complaints of odors in the area. Dave Spellman represented Vortex; I represented the Dept.

Strong odors described as smelling like cat urine have been reported in the area of Sampson and Grant Streets beginning the evening of 10/27/14. The oil filter recycling crusher was not operating during this visit. There are not floor drains in the facility; a "sow tank" collects waste oil from the process; no floor drains are onsite. A brief tour of the outside of the building did not reveal anything that might be associated with the odors. -- End --

Inspector Name D. Santilo	Inspector Signature 	Headquarters New Castle DO 121 N. Mill St. New Castle, PA 16101	Date 11/12/14
			Telephone 724-656-3195
Person Interviewed Name	Signature of Person Interviewed Mailed to D. Spellman 11/12/14	Title	Telephone
This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning other violations noted herein, or other violations identified as a result of review of laboratory analysis or Department records. This report does not constitute an order or other enforceable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein. Signature by the person interviewed does not necessarily imply concurrence with the finding on this report, but does acknowledge that the person was shown in the report or that a copy was left with the person.			

Reg Filed Fac

PEAPB 7320448

ER Incident & Characterization Report

ERT Member: Wyatt

Date of Incident/Call Out: 11/3/2014

Time Involved in Response: 7 hours

County: Lawrence

Municipality:

City of New
Castle

LAT: 41° 0' 43.09"

LONG: -80° 21' 32.42"

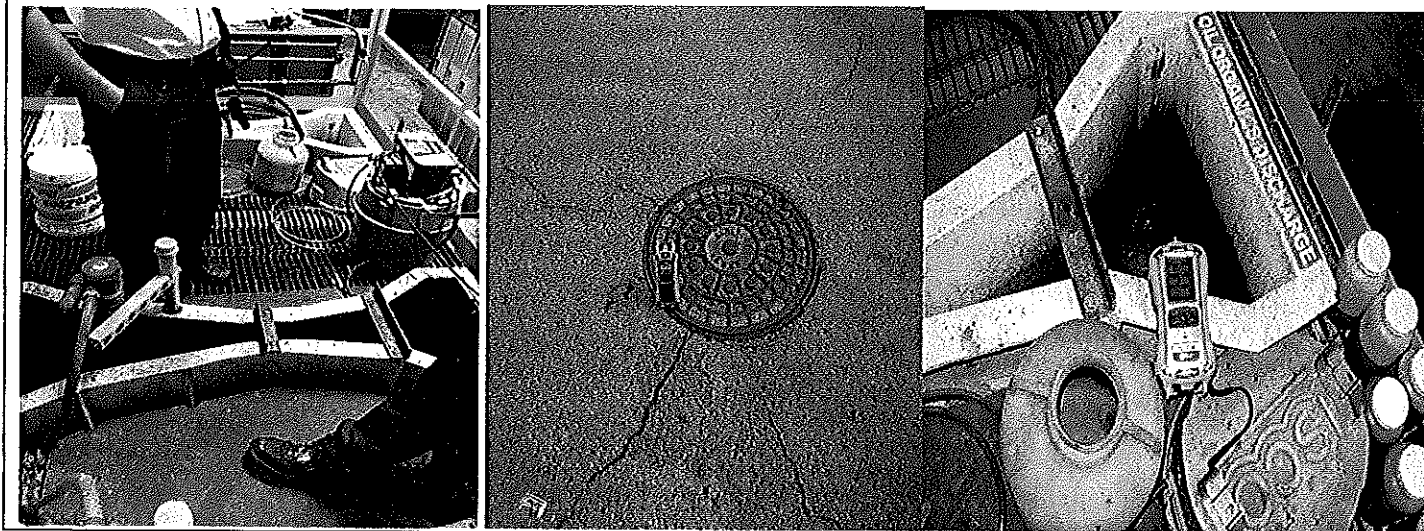
Location/Directions: Advanced Waste Services 101 River Park Drive, New Castle, PA 16101

What Happened: A complainant reported that there was a strong smell of "cat urine" on Sampson Street in the City of New Castle. I met with the New Castle Fire Chief, Mike Petrone (724) 333-5342, 2 staff members from the New Castle Sewer Authority (Chuck and Mark) and Martha Michalek from Emergency Response SWRO. We first met at the intersection of Connector Street and Sampson Street to discuss how the sewer system is set up and this is where the Fire Chief noticed the odors earlier in the day. During our discussion there was the presence of the cat urine odor where we were standing. At this intersection there is a manhole cover (41° 0' 15.75", -80° 21' 33.50") where I placed my MultiRAE into the hole of the manhole cover and got the following readings: 44.6 ppm for VOC, 0% LEL, 20.4% O₂, 0 ppm CO, 0 ppm H₂S. Martha Michalek collected an air sample at this location to have Don Bialosky, SWRO ER Manager, run an in house air test on his Gas chromatography-mass spectrometry (GC-MS) to try and determine if any chemicals are present.

We then proceeded north on Sampson Street to the manhole cover on River Park Drive (41° 0' 43.09", -80° 21' 32.42") and got the following readings: 168 ppm VOC, 0% LEL, 20.1% O₂, 0 ppm CO, 0 ppm H₂S. The manhole cover is adjacent to where Advanced Waste Services lateral line connects to the New Castle Sewer System. While we were standing on River Park Drive, Advanced Waste Services was cleaning out railcars on the railroad tracks which put off a petroleum based odor. The presence of cat urine was also present at this location.

Mike Petrone, Martha Michalek and I then went to Advanced Waste Services and met with Plant Manager-Eli Saenz in the lobby where the presence of cat urine was also present. While standing in the lobby of Advanced Waste Services my MultiRAE showed the following readings: of 1.3 ppm VOC, 0% LEL, 21.2% O₂, 0 ppm CO, 0 ppm H₂S. Mr. Saenz took us into the plant to show where the fluid was discharged from the plant after it went through treatment at their facility. At this location there are 3 separate discharge (all 3 discharge points discharge directly into the sewer system) points where I got the following readings: 9.1 ppm VOC, 0% LEL, 21.2% O₂, 0 ppm CO, 0 ppm H₂S. Mr. Saenz then took Mike Petrone, Martha Michalek and I into their lab area where I received the following readings: 5.5 ppm VOC, 0% LEL, 21.2% O₂, 0 ppm CO, 0 ppm H₂S. Mr. Saenz explained how their facility works and said that someone from the New Castle Sewer Authority comes every week to collect a sample of what they discharge so the Sewer Authority can determine how much to charge Advanced Waste Services. While we were standing in the lab Chuck and Mark from the Sewer Authority entered and they confirmed that they smelled the cat urine odor in the lobby of Advanced Waste Services.

After our inspection of Advanced Waste Services Chuck and Mark took us to another manhole cover that was up gradient of Advanced Waste Services (41° 0' 45.12", -80° 21' 36.39") and got the following readings: 0 ppm VOC, 0% LEL, 21.2% O₂, 0 ppm CO, 0 ppm H₂S. We then travel up gradient to another manhole cover (41° 0' 49.62", -80° 21' 43.89") and got the following readings: 0 ppm VOC, 0% LEL, 21.2% O₂, 0 ppm CO, 0 ppm H₂S. While we were standing around comparing reading and talking about where we noticed the odor I asked Chuck and Mark from the Sewer Authority who goes to Advanced Waste Services every week to collect a sample, and they did not know. Chuck called Joe McIlvaney-Plant Manager for the Sewer Authority who told Chuck that no one from the Sewer Authority goes to Advanced Waste weekly to collect a sample. All MultiRAE readings were taken through the manhole cover openings or while the manhole covers were slightly lifted up.



Responsible Party

Individual's Name:	Eli Saenz	Home Phone:	
Company Name:	Advanced Waste Services	Mobile Phone:	(414) 234-8583
Address:	101 River Park Drive, New Castle, PA 16101	Work Phone:	(724) 698-1623

Cleanup Contractor

Individual's Name:		Home Phone:	
Company Name:	N/A	Mobile Phone:	
Address:		Work Phone:	

Site Characterization

Evacuations:	No	Injuries:	No	Fatalities:	No
Substance Released:	Yes	Name of Substance:	Unknown		
Potential Release:	unknown	Amount Released:	unknown	Amount Recovered:	None
Waterway Affected:	unknown	Side of the Stream Substance Entered (facing downstream):			
Atmosphere Affected:	Yes	Land/Soil Affected: No			
Other Responders on Scene: New Castle Fire Chief, New Castle Sewer Authority, PA DEP SWRO					
Police Report # N/A					
Contaminant present: Unknown			Name of Contaminant: Unknown		
Chemical Abstracts Service (CAS) Number: N/A			PEL:	References Used:	
Physical/Chemical Description: N/A					
Monitoring Results: see results above in report					
Date of Monitoring: 11/3/2014		Time of Monitoring: 16:00-17:00		Location of Monitoring: at manhole covers, inside Advanced Waste Services	
Weather Conditions: sunny with some clouds, 56°F, slightly windy					

TIC Peak Signal-to-Noise Ratio & Estimated Concentration (+/- 1 Order of Magnitude)

Sample: New Castle Sewer system 2014-11-03

Min Accept. SNR
2.5

IS #2 Peak TIC	IS #2 Norm. Ion	IS #2 Norm. Value	IS #2 Conc.	IS #2 Conc. Units
4,921,520	117	1,345,414	0.4	ppm

Peak	Peak RT (XX:xx.x) (min)	Calculated AMDIS RT (X.xx) (min)	Peak Maximum TIC	Peak Normaliz. Ion	Peak Normaliz. Value	Leading Baseline TIC	Trailing Baseline TIC	Average Baseline TIC	Peak / Baseline SNR	Sample Dilution Factor (1 : x)	Sample Estimated Conc.	Conc. Units
1	03:11.8	3.20	2,286,114	213	310,572	6,585	4,489	5,537	412.9	1	0.1	ppm
2	04:07.4	4.12	113,596	70	34,335	9,769	14,535	12,152	9.3	500	5.1	ppm
3	04:47.7	4.80	144,058	71	45,045	6,196	4,869	5,533	26.0	500	6.7	ppm
4	05:33.2	5.55	84,272	91	26,964	5,016	3,013	4,015	21.0	500	4.0	ppm
5	06:47.5	6.79	1,509,066	91	674,152	4,061	5,719	4,890	308.6	500	100.2	ppm
6	09:36.0	9.60	271,030	85	75,568	4,687	4,117	4,402	61.6	500	11.2	ppm
7	10:20.4	10.34	4,921,520	117	1,345,414	3,541	7,147	5,344	920.9	1	0.4	ppm
8	10:58.7	10.98	142,658	91	46,694	5,977	4,126	5,052	28.2	500	6.9	ppm
9	11:16.2	11.27	232,138	70	45,317	5,977	4,126	5,052	46.0	500	6.7	ppm
10	18:47.7	18.80	185,592	71	41,160	52,987	16,718	34,853	5.3	500	6.1	ppm

NOTE: 2.5 selected as Minimum Acceptable Signal-to-Noise Ratio (SNR) in accordance with 40 CFR Part 136
Guidelines Establishing Test Procedures for the Analysis of Pollutants -- Appendix A 16.2

ER Incident & Characterization Report

ERT Member: Wyant			
Date of Incident/Call Out: 11/4/2014		Time Involved in Response: 7.75 hours	
County: Lawrence	Municipality: City of New Castle	LAT: 41° 0' 43.09"	LONG: -80° 21' 32.42"
Location/Directions: Advanced Waste Services 101 River Park Drive, New Castle, PA 16101			
What Happened: I was dispatched by Gordon Buckley to respond to a cat urine smell in the New Castle area. I met with the New Castle Fire Chief, Mike Petrone (724) 333-5342, 2 staff members from the New Castle Sewer Authority (Chuck and Mark) and Martha Michalek from Emergency Response SWRO. We first met at the intersection of Connector Street and Sampson Street to discuss how the sewer system is set up and look at the maps that show the locations of the manhole covers. During our discussion there was the presence of the cat urine odor where we were standing. We started checking the manhole covers for the presence of the odor starting at the intersection of Connector Street and Sampson Street and working our way up gradient until we reached George Drive, which is located north of Advanced Waste Services. First we would take a reading using 3 meters (Fire Chief/Martha/Dustin) checking the small openings on the manhole covers, if there was no holes present we asked the New Castle Sewer Authority to slightly crack the lid open so we could take a reading. While the meters were checking for VOCs, LEL, O2, CO, H2S an Ammonia Draeger tube was used to check for the presence of ammonia in the sewer lines. After the initial readings were taken the manhole cover was removed and a second reading was taking using the 3 meters. While all 5 people were standing at each manhole cover, I asked them if they smelled the presence of the cat urine odor, they answered with a Yes or No answer. The second question I asked was, when the manhole cover was removed did the cat urine odor smell get stronger, they answered with a Yes or No answer. While the manhole cover was removed it was noted if there was flow of water present in the sewer system also. All the data collection is provided in the excel spreadsheet that was attached in the email separately from this report. Philip Battista 724-333-5734 was also on site to give us access to Neshannock Twp. Sewer Lines. Mr. Battista said that their line is completely sealed off and no lateral lines connect to their main line. Mr. Battista also reported that he does not notice the cat urine odor at his pump station up gradient. Neshannock Twp Sewer Lines run parallel to the railroad tracks. After we completed our survey of the sewer system, Mike Petrone, Martha Michalek and I went back to the intersection of Connector Street and Sampson Street and noticed the odor, once we all noticed the odor I asked if it smells like cat urine, all 3 of us said yes. We then proceeded to the intersection of River Park Drive and Bailey St (the fence line of Advanced Waste Services) and we noticed the same odor. I asked Martha and Mike if the smell they notice is the same as it was down at the intersection of Connector Street and Sampson Street, their answer was yes. After confirming the smell was the same we went back to the intersection of Connector Street and Sampson Street to smell the odor again. Mike, Martha and I all confirmed and agreed that we smelled the same odor at all 3 locations.			

Responsible Party

Individual's Name:	Home Phone:
Company Name: Advanced Waste Services	Mobile Phone:
Address: 101 River Park Drive, New Castle, PA 16101	Work Phone: (724) 698-1623

Cleanup Contractor

Individual's Name:	Home Phone:
Company Name: N/A	Mobile Phone:
Address:	Work Phone:

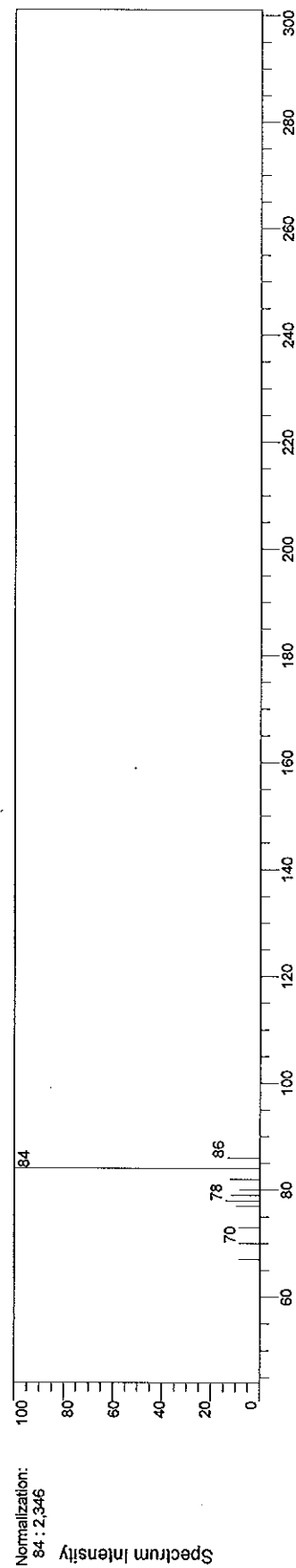
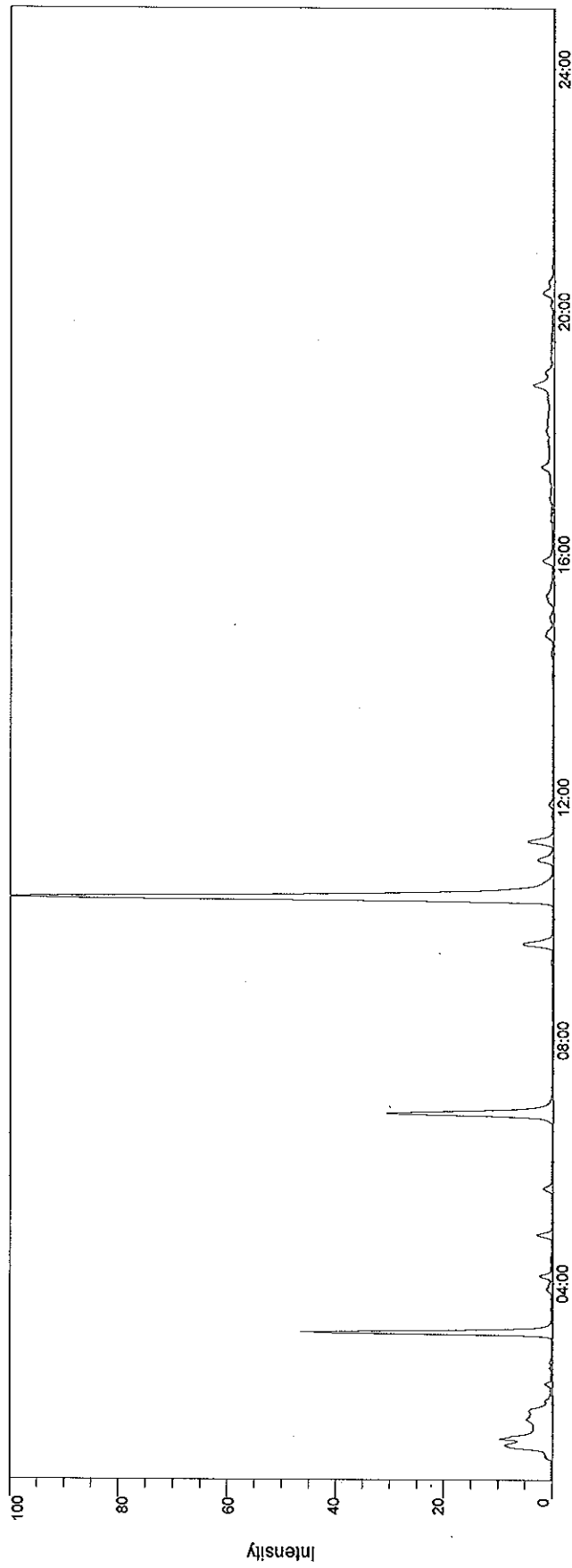
Site Characterization

Evacuations: No	Injuries: No	Fatalities: No
Substance Released: Yes	Name of Substance: Unknown	
Potential Release: unknown	Amount Released: unknown	Amount Recovered: None
Waterway Affected: unknown	Side of the Stream Substance Entered (facing downstream):	

Atmosphere Affected: Yes		Land/Soil Affected: No	
Other Responders on Scene: New Castle Fire Chief, New Castle Sewer Authority, PA DEP SWRO			
Police Report # N/A			
Contaminant present: Unknown		Name of Contaminant: Unknown	
Chemical Abstracts Service (CAS) Number: N/A		PEL:	References Used:
Physical/Chemical Description: N/A			
Monitoring Results: see excel spreadsheet			
Date of Monitoring: 11/4/2014		Time of Monitoring: 19:30-22:00	Location of Monitoring: at manhole covers
Weather Conditions: cloudy, 56°F, windy (approx. 8-12 mph)			

Plus IQ Data

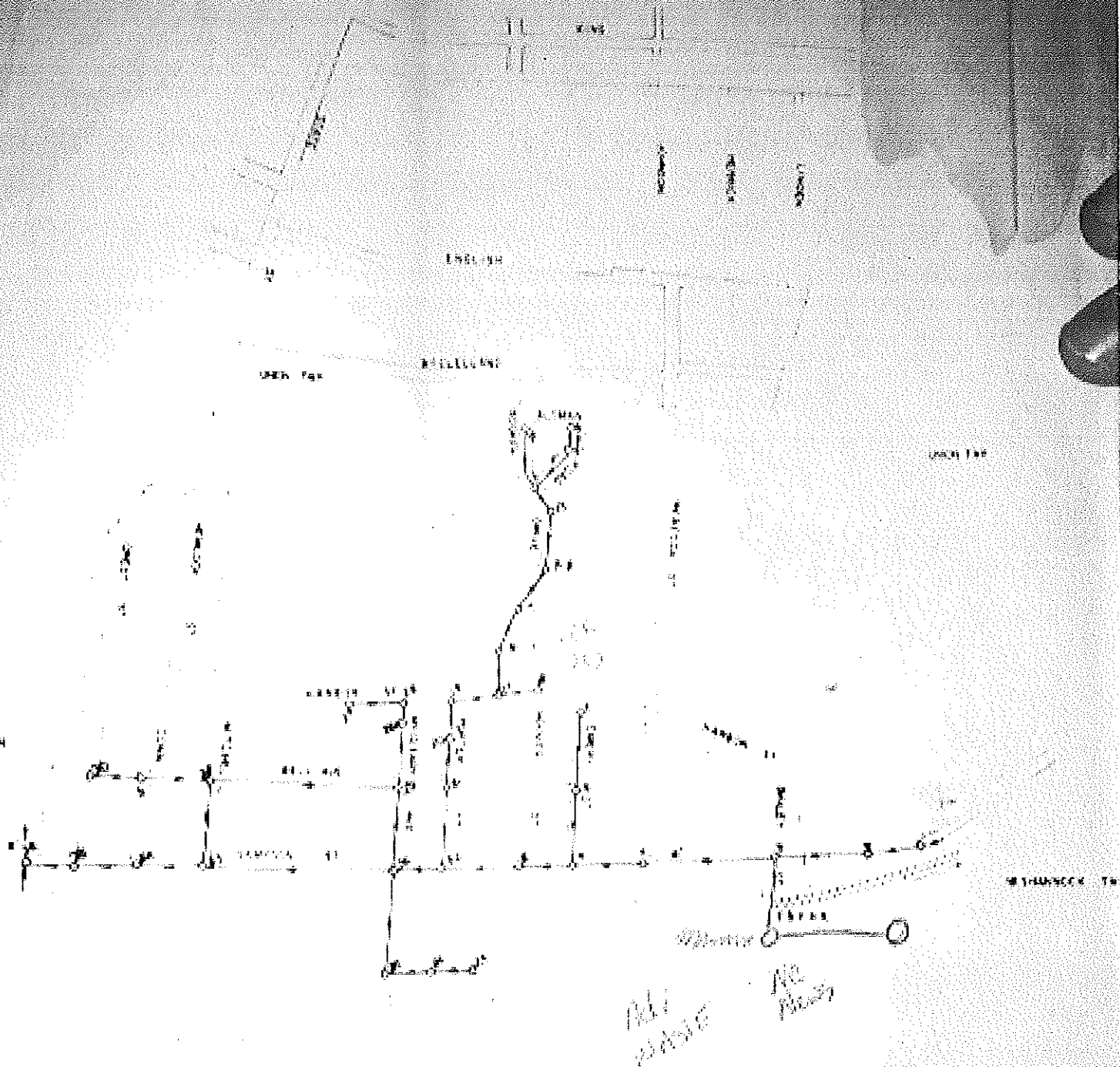
TIC_Max = 4,921,520 : TIC/TIC_Max = 0% : TIC = 4,627 : Scan Set #1 : Scan # 1408



Data File Name: C:\Plus IQ\Data\2014-11-03 New Castle Sewer System Vapors via VOC-Conc-003s on 20141104_152934.hps
GPS Info: Valid GPS Information Not Available

Method: VOC-Conc-003s.mth
Date: 11/4/2014 4:29:33 PM

DATE: 7/24/86
BY: JAC



DESIGNED DRAWN PL/JPB CHECKED TBY APPROVED JAC NO 22486-00-ANA	SCALE 1" = 100'		CITY OF NEW CASTLE LAWRENCE COUNTY, PENNSYLVANIA PREPARED BY: MICHAEL BAKER, JR., INC. CONSULTING ENGINEERS SEAFER, PENNSYLVANIA
---	----------------------------	--	--

Mike No-sewage smell < Yes-only of sewage smell

NR-bad sensor
NS-no sensor
BS-bad sensor

Draeger reading Flow Present in Manhole
no ammonia present No

Bailey Street and River Park Drive (Sample 7)

Lat: 41° 00' 43.2"
Long: -80° 21' 32.6"

Odor Presence of Cat Urine Did Odor increase after manhole cover was removed:

Chuck Yes Yes
Dustin Yes Yes
Mark Yes Yes
Martha Yes Yes
Mike Yes Yes

VOC (ppm)
LEL (%)
O2 (%)
CO (ppm)
H2S (ppm)

Dustin
closed/cracked
manhole cover

manhole
removed

closed/cracked
manhole cover

manhole
removed

closed/cracked
manhole cover

manhole
removed

NR-no read
NS-no sensor
BS-bad sensor

Draeger reading Flow Present in Manhole
no ammonia present Yes

River Park Drive (Neshannock Twp Sanitation Line) (Sample 8)

Lat: 41° 00' 42.1"
Long: -80° 21' 33.4"

Odor Presence of Cat Urine Did Odor increase after manhole cover was removed:

Chuck No-sewage smell < Yes-only of sewage smell
Dustin No-sewage smell < Yes-only of sewage smell
Mark No-sewage smell < Yes-only of sewage smell
Martha No-sewage smell < Yes-only of sewage smell
Mike No-sewage smell < Yes-only of sewage smell

VOC (ppm)
LEL (%)
O2 (%)
CO (ppm)
H2S (ppm)

Dustin
closed/cracked
manhole cover

manhole
NOT
removed

closed/cracked
manhole cover

manhole
NOT
removed

closed/cracked
manhole cover

manhole
NOT
removed

NR-no read
NS-no sensor
BS-bad sensor

*This line is completely sealed off to any industry in the area,
no lateral lines connect. It is also independent of the New Castle
Sewer Authority Line.

Draeger reading Flow Present in Manhole
no ammonia present Yes

Bailey Street and Sampson Intersection (Sample 9)

Lat: 41° 00' 42.8"
Long: -80° 21' 35.7"

Odor Presence of Cat Urine Did Odor increase after manhole cover was removed:

VOC (ppm)
LEL (%)

Dustin
closed/cracked
manhole cover

manhole
NOT
removed

closed/cracked
manhole cover

manhole
NOT
removed

closed/cracked
manhole cover

manhole
NOT
removed

NS
0



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

GENERAL INSPECTION REPORT

Type of Inspection NC Odor Complaint	WM Identification Number N/A	Entry Time/Date 11/6/14 1300	Exit Time/Date 11/6/14 1400
Facility/Incident Name and Location Resco Products, Inc. 606 McCleary Ave. New Castle, PA 16101			Municipality New Castle
Name, Address of Responsible Official Mike Deutschlander			County Lawrence
Title Plant Manager		Telephone 724-652-6668	Interviewed Yes No XX
REMARKS:			

On site to conduct an inspection regarding complaints of odors in the area. John Rodailis, Process Engineer, represented Resco; I represented the Dept.

Strong odors described as smelling like cat urine have been reported in the area of Sampson and Grant Streets beginning the evening of 10/27/14. Resco manufactures refractory forms used mainly in the railroad industry. The process consists of pressing, binding and baking graphite into forms (wheels and tubes). Nothing onsite was observed to be possibly linked to the odors.

J. Rodailis and I also was walked the rail spur in front of the facility to observe the rail tank cars parked on the spur; an employee of Resco indicated that some were marked ammonia. During this visit all rail cars (approximately 10-12) were labelled waste oil.

This inspection did not reveal anything that might be associated with the odors. -- End -

Site 788188
Client 315907

Inspector Name D. Santilo	Inspector Signature 	Headquarters New Castle DO 121 N. Mill St. New Castle, PA 16101	Date 11/12/14
			Telephone 724-656-3195
Person Interviewed Name	Signature of Person Interviewed Mailed to M. Deutschlander 11/12/14	Title	Telephone

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Reg Fac
eFACTS 2320459

ER Incident & Characterization Report

ERT Member: Wyant

Date of Incident/Call Out: 11/6/2014

Time Involved in Response: 10 hours

County: Lawrence

Municipality: City of New Castle

LAT: 41° 0' 43.09"

LONG: -80° 21' 32.42"

Location/Directions: Advanced Waste Services 101 River Park Drive, New Castle, PA 16101

What Happened: An odor investigation was conducted on November 6, 2014 to try to determine the origin of the cat urine odor that is present in the New Castle area. The mobile analytical lab from the DEP Bureau of Labs was conducting air monitoring along Sampson Street and the Mahoningtown area along North Cedar Street. The Bureau of Labs will submit their air monitoring data to the Northwest Regional Office once they finalize their results. In a collaborative effort between Air Quality, Clean Water and Emergency Response, New Castle Sewer Authority and New Castle Fire Department we conducted air monitoring and collected water samples. First we would take a reading using 2 meters (Fire Chief-Mike Petrone/PA DEP-Gordon Buckley) checking the small openings on the manhole covers, if there was no holes present we asked the New Castle Sewer Authority to slightly crack the lid open so we could take a reading. The meters were checking for VOCs, LEL, O2, CO, H2S an Ammonia Draeger tube was used to check for the presence of ammonia in the sewer lines. After the initial readings were taken the manhole cover was removed and a second reading was taking using the 2 meters. While the manhole cover was removed it was noted if there was flow of water present in the sewer system also. We also checked the pH of the water and checked for the presence of radioactive materials while noting the weather conditions at each sampling location. All the data collection is provided in the excel spreadsheet that was attached in the email separately from this report. The water samples were collected under collector ID # 5908 (Dustin Wyant).

Responsible Party

Individual's Name:

Home Phone:

Company Name: Advanced Waste Services

Mobile Phone:

Address: 101 River Park Drive, New Castle, PA 16101

Work Phone: (724) 698-1623

Cleanup Contractor

Individual's Name:

Home Phone:

Company Name: N/A

Mobile Phone:

Address:

Work Phone:

Site Characterization

Evacuations: No

Injuries: No

Fatalities: No

Substance Released: Yes

Name of Substance: Unknown

Potential Release: unknown

Amount Released: unknown

Amount Recovered: None

Waterway Affected: unknown

Side of the Stream Substance Entered (*facing downstream*):

Atmosphere Affected: Yes

Land/Soil Affected: No

Other Responders on Scene: New Castle Fire Chief, New Castle Sewer Authority, PA DEP SWRO, Bureau of Labs Air Monitoring Staff

Police Report # N/A

Contaminant present: Unknown

Name of Contaminant: Unknown

Chemical Abstracts Service (CAS) Number: N/A

PEL:

References Used:

Physical/Chemical Description: N/A	
Monitoring Results: see excel spreadsheet	
Date of Monitoring: see excel spreadsheet	Time of Monitoring: see excel spreadsheet Location of Monitoring: at manhole covers/ inside Advanced Waste Services
Weather Conditions: see excel spreadsheet	

Rebecca St. & Sampson St. (Sample 1)

Lat: 41° 00' 37.2"

Time Sampled: 14:10

Long: -80° 21' 35.6"

Odor Presence:

Dustin Yes
Gordon Yes
Bruce Yes
Larry Yes
Beth Yes
Martha Yes

Did Odor increase after manhole cover was removed:

Yes
Yes
Yes
Yes
Yes
Yes

Meter Readings:

	closed/cracked manhole cover	manhole removed	closed/cracked manhole cover	manhole removed
	Gordon-PA DEP		Mike-NCFD	
VOC (ppm)	0	9.4	NS	NS
LEL (%)	0	0	0	0.4
O2 (%)	20.9	20.9	20.9	20.8
CO (ppm)	0	17	0	0
H2S (ppm)	0	0	NS	NS

**NS-no sensor

Flow Present: Yes**Draeger Tube:** Non Detect**pH:** 7**Radiation:** 119 cpm & 32 µR/hr (Background 50 cpm & 34 µR/hr)**Weather:**

Humidity: 41% Speed: 1.3 mph
Temp: 50°F Direction: E →W

Water Samples: submitted under Dustin Wyant (Collector ID: 5908)

Sequence #	Date	Time	SAC Code	Legal Seal
1	6-Nov	14:12	VOASW	I024313
1	6-Nov	14:12	VOASW	I024314
3	6-Nov	14:12	Ammonia Nitrogen	I024315
4	6-Nov	14:12	SV-SW	I024316
4	6-Nov	14:12	SV-SW	I024317
BLANK-21	6-Nov	11:40	VOASW	I024311
BLANK-21	6-Nov	11:40	VOASW	I024312

BLANK WATER: Prod# 00059291 Container# 013964
Hydrochloric Acid Lot # HA-3350040 expires: 12-16-14

Sulfuric Acid Lot # SA-4212090 expires: 7-31-15

Bailey St. & Sampson St. (Sample 2)-Actual manhole cover on Bailey St./River Park Drive

Lat: 41° 00' 43.2"

Time Sampled: 14:35

Long: -80° 21' 32.4"

Odor Presence:

Dustin Yes- ↑ Petro. ↓ Cat Urine
Gordon Yes- ↑ Petro. ↓ Cat Urine
Bruce Yes- ↑ Petro. ↓ Cat Urine
Larry Yes- ↑ Petro. ↓ Cat Urine
Beth Yes- ↑ Petro. ↓ Cat Urine
Martha Yes- ↑ Petro. ↓ Cat Urine

Did Odor increase after manhole cover was removed:

Yes- ↑ Petro. ↓ Cat Urine
Yes- ↑ Petro. ↓ Cat Urine
Yes- ↑ Petro. ↓ Cat Urine
Yes- ↑ Petro. ↓ Cat Urine
Yes- ↑ Petro. ↓ Cat Urine
Yes- ↑ Petro. ↓ Cat Urine

Meter Readings:

	closed/cracked manhole cover	manhole removed	closed/cracked manhole cover	manhole removed
	Gordon-PA DEP		Mike-NCFD	
VOC (ppm)	56	72	NS	NS
LEL (%)	0	4	0	5
O2 (%)	20.9	20.4	20.9	20.4
CO (ppm)	9	22	0	3.3
H2S (ppm)	0	0	NS	NS

**NS-no sensor

Flow Present: stagnant water
Draeger Tube: Non Detect
pH: 7
Radiation: 200 cpm & 49 µR/hr (Background 130 cpm & 30 µR/hr)

Weather:

Humidity: 42% Speed: .1 mph
Temp: 50°F Direction: E →W

Water Samples: submitted under Dustin Wyant (Collector ID: 5908)

Sequence #	Date	Time	SAC Code	Legal Seal
6	6-Nov	14:45	VOASW	I024318
6	6-Nov	14:45	VOASW	I024319
8	6-Nov	14:45	Ammonia Nitrogen	I024320
9	6-Nov	14:45	SV-SW	I024321
9	6-Nov	14:45	SV-SW	I024322

**this manhole cover was being filled up from a down gradient influence, this is due to Advanced Waste Discharging causing the line to back up. There was a oil layer present

and presence of oil that had already oxidized

Advanced Waste Services (Sample 3)

Lat: 41° 00' 45.2"

Time Sampled: 15:37

Long: -80° 21' 36.4"

Odor Presence:

Dustin	Petroleum
Gordon	Petroleum
Bruce	Petroleum
Larry	Petroleum
Beth	Petroleum
Martha	Petroleum

Meter Readings:

	lobby Gordon-PA DEP	treatment/ lab	lobby Mike-NCFD	treatment
VOC (ppm)	0.4	0.5/1.5	NS	NS
LEL (%)	0	0/0	0	0
O2 (%)	20.9	20.9/20.9	20.7	20.7
CO (ppm)	0	0/0	0	1
H2S (ppm)	0	0/0	NS	NS

**NS-no sensor

Flow Present:	Yes		
Draeger Tube:	Non Detect		
pH:	6.5		
Radiation:	40 cpm & 30 µR/hr in lobby (Background 25 cpm & 20 µR/hr) 28 cpm & 11 µR/hr in lab		
Weather:			
Humidity:	41%	Speed:	1.4 mph
Temp:	50°F	Direction:	E → W

Water Samples: submitted under Dustin Wyant (Collector ID: 5908)

No samples, due to the fact that Advanced Waste was not discharging

Sampson Street (NC Bridge Painters) (Sample 4)

Lat: 41° 00' 45.2"

Time Sampled: 15:12

Long: -80° 21' 36.4"

Odor Presence:

Dustin No
Gordon No
Bruce No
Larry No
Beth No
Martha No

Did Odor increase after manhole cover was removed:

No
No
No
No
No
No

Meter Readings:

	closed/cracked manhole cover	manhole removed	closed/cracked manhole cover	manhole removed
	Gordon-PA DEP		Mike-NCFD	
VOC (ppm)	0	0	NS	NS
LEL (%)	0	0	1.4	0.6
O2 (%)	20.9	20.9	20.9	20.8
CO (ppm)	0	0	5	4
H2S (ppm)	0	0	NS	NS

**NS-no sensor

Flow Present:

Yes

Draeger Tube:

Non Detect

pH:

6.5

Radiation:

105 cpm & 37 µR/hr (Background 75 cpm & 30 µR/hr)

Weather:

Humidity: 41% Speed: 3.4 mph
Temp: 50°F Direction: E → W

Water Samples: submitted under Dustin Wyant (Collector ID: 5908)

Sequence #	Date	Time	SAC Code	Legal Seal
16	6-Nov	15:20	VOASW	I024323
16	6-Nov	15:20	VOASW	I024324
18	6-Nov	15:20	Ammonia Nitrogen	I024325
19	6-Nov	15:20	SV-SW	I024326
19	6-Nov	15:20	SV-SW	I024327



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

GENERAL INSPECTION REPORT

INSP. # 2319335

Type of Inspection Routine	WM Identification Number 301353	Entry Time/Date 0915 - Nov 5, 2014 0910 - Nov 6, 2014	Exit Time/Date 1330 - Nov 5, 2014 0945 - Nov 6, 2014
Facility/Incident Name and Location Advanced Waste Services of PA LLC 101 River Park Drive New Castle, PA 16101			Municipality New Castle
			County Lawrence
Name, Address of Responsible Official Mr. Tom Wendler 1001 Sampson Street New Castle, PA 16101		Title General Manager	
		Telephone 724-657-8072	Interviewed Yes ☒ No ☐

REMARKS: An inspection was conducted at the above facility on the dates noted to obtain copies of treatment records of the specific waste streams treated between the periods of October 24, 2014 and November 4, 2014. Also present was Eli Saenz from Advanced Waste and Deb Morvay from the Department (on Nov. 5, 2014). Copies of the requested treatment records were provided by Mr. Saenz to the Department on both dates (approx. half of the records provided on each date).

During the inspection, based on past visits to the facility, it was noted that a stronger oil/grease/petroleum odor was detected right outside the office door. In discussing this with Mr. Wendler, the recent changes to the oil/water separation units (which included the heating of the tanks), may have contributed to this increase in odor. Previously, on October 31, 2013, the Department had approved a permit modification for Advanced Waste to install a bio-filter odor control unit for the building, which has yet to be constructed.

Based on the increased odors, the Department is requesting that Advanced Waste construct the

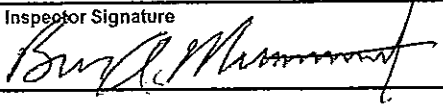
Inspector Name Brian Mummert	Inspector Signature <i>Brian Mummert</i>	Headquarters 230 Chestnut Street Meadville, PA 16335	Date 11/6/2014
			Telephone 814-332-6848
Person Interviewed Name Tom Wendler	Signature of Person Interviewed Mailed	Title General Manager	Telephone 724-657-8072

This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning either violations noted herein, or other violations identified as a result of review of laboratory analyses or Department records.

This report does not constitute an order or other appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

Signature by the person interviewed does not necessarily imply concurrence with the findings on this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

bio-filter control unit and submit a Form 37 (Certification of Facility Construction) to this office by February 1, 2015. With the increased odors, it is recommended that Advanced Waste take all other appropriate actions to minimize and control odors from the facility, and to follow the approved Odor Control Plan. If you have any questions about this report, please contact this office.

Inspector Name	Inspector Signature	Date
Brian Mummert		11/6/2014



Case

Facility or Incident: New Castle Sewer System
County: Lawrence
Municipality: New Castle
Address / Location:

Sample

Location/Description: Sewer Manhole Cover Hole
Date/Time Collected: 11/03/2014 @
Field PID Reading: 44.6 ppm Isobutylene Equivalent Units
Collector: Martha Michalek

Sample Analysis

GC/MS Data File: 2014-11-03 New Castle Sewer System Vapors via VOC-Conc-003s on 20141104_152934
Date/Time of Analysis: 11/04/2014 @ 15:29
GC/MS Method: VOC-Conc-003s
Approx. Sensitivity: 40 ppb – 8 ppm
Sample PID Reading: Not checked
Sample Dilution: Approx. 1:500
Operator: Don Bialosky

Results

# Significant Sample Peaks Found (S/N Ratio > 2.5)	8	(Note: Does NOT include the 2 Internal Std. peaks.)
# Target Compounds Identified: (Confirmed Identification)	3 / 92	(Note: Does NOT include the 2 Internal Standards.)
# Additional Compounds Identified: (Tentative Identification)	0	

Analytical Summary / Notes

The analytical instrumentation and methods used by the DEP SWR Emergency Response Program are somewhat limited and are not able to detect and identify all VOCs that might be present in a sample. In general, DEP SWR ER is only able to detect and identify VOCs that have a molecular weight between 45 and 300 AMU, a boiling point less than 250°C and are included in the NIST Spectral Library.

Identified compounds include:

- ☐ BTEX
- ☒ GRO (Gasoline Range Organics)
- ☐ Chlorinated Hydrocarbons
- ☐

Report Completion

Agency: Pennsylvania Department of Environmental Protection
Division: Southwest Region - Emergency Response Program
Representative Name: Donald Bialosky
Title: Emergency Response Manager
Phone: 412-442-4187
Email: dbialosky@pa.gov
Date Completed: 11/05/2014

Report Distribution

M. Michalek, G. Buckley, D. Wyant

Attachments

- ☒ TIC Graph - Sample
- ☐ TIC Graph - Trip Blank
- ☐ TIC Graph Overlay - Sample / Trip Blank
- ☒ Peak SNR and Estimated Concentration Spreadsheet
- ☐ AMDIS Analysis Report (for significant sample peaks)
- ☐

Analytical Results – DEP SWR VOC Method

Data File Name

COMPONENT				Analysis			
DEP BOL Description	CAS #	AMDIS / NIST Chemical Name	Std. R.T. (min.)	Peak R.T. (min.)	Match Factor	Identity	Est. Conc. (10 ^{±1}) (ppm)
	729-81-7	HAPSITE IS # 1 (TRIS)	3.26	3.19	98	Confirmed	---
<i>n</i> -Heptane	142-82-5	Heptane	4.94	4.80	89	Confirmed	6.7
Toluene	108-88-3	Toluene	6.95	6.79	99	Confirmed	100.2
	344-04-7	HAPSITE IS # 2 (BPFB)	10.45	10.35	100	Confirmed	0.4
<i>m/p</i> -Xylene		<i>m/p</i> -Xylene	11.11	10.99	87	Confirmed	6.9

Additional Information	
Instrument:	INFICON HAPSITE Smart Plus GC/MS
Column:	Non-Polar - 100% methyl silicone paste; 30 m x 0.32 mm ID x 1.0 µ film
Carrier Gas:	Nitrogen
GC/MS Method:	☐ Sample Loop – 200 µl sample ☒ Tri-Bed Concentrator – 3-sec. fill-time (13.3 ml sample) Temp. Profile: 45°C (hold 5:00 min) to 120°C @ 5°C/min. to 180°C @ 25°C/min. (hold 2:36 min.)
MS Scan	45 – 300 AMU, Scan Time – 1.02 seconds
Internal Standards:	HAPSITE IS #1 (TRIS) – 1,3,5 trifluoromethyl benzene (CAS # 729-81-7) Concentration = 20 ppb HAPSITE IS #2 (BPFB) – Bromopentafluorobenzene (CAS # 344-04-7) Concentration = 10 ppb
Reference Libraries:	AMDIS: INFICON/DEP SWRO-ER HAPSVOC.MSL Library (subset of NIST 2011) NIST 2011: NIST/EPA/NIH Mass Spectral Library, May 2011

Definitions

AMDIS: Automated Mass Spectral Deconvolution and Identification System, version 2.71.

Est. Conc.: Component's estimated concentration based on a comparison of the component's maximum Normalization value with the maximum Normalization value of IS #2. Accuracy is estimated to be ± one order of magnitude.

GC/MS: Gas Chromatograph / Mass Spectrometer.

Match Factor: Shows how closely the deconvoluted component spectrum matches a library spectrum. A perfect match results in a value of 100; spectra with no peaks in common result in a value of 0. As a general guide, 90 or greater is an excellent match, 80-89 is good, 70-79 is fair, and less than 70 is poor.

NIST: National Institute of Standards and Technology.

PID: Photo Ionization Detector

Results – Confirmed: Indicates the target compound is present. Confirmation based on a match of the sample component's spectrum with the target compound's library spectrum (Match Factor ≥ 80) plus a match of the sample component's retention time with the target compound's retention time (determined from a known standard).

Results – Tentative: Indicates a non-target compound is present but identification cannot be confirmed. Tentative identification is based on a match of the sample component's spectrum with library spectrum (Match Factor ≥ 80). If the sample component's spectrum matches multiple library spectra, only the top 10 matches with Match Factor ≥ 80 are listed.

Results – Blank: Indicates the target compound was not detected.

Results – Unknown: Indicates a non-target compound is present but cannot be identified. Identification cannot be made due insufficient match of the component spectrum to library spectra (no Match Factor ≥ 80).

RIC: Reconstructed Ion Chromatogram

Significant Sample Peaks: Sample peaks that meet or exceed a Signal-to-Noise Ratio (SNR) of 2.5. (The Sample Peak TIC to Sample Baseline TIC ratio must meet or exceed this value. In addition, if the peak is also present in the Trip-Blank, the Sample Peak TIC to Trip-Blank Peak TIC ratio must also meet or exceed this value.) Peaks that do not meet or exceed this value are not analyzed for identification.

Std. R.T.: Standard Retention Time as determined from a known sample of the target compound.

TIC: Total Ion Count or Total Ion Chromatogram



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Section 3

Sampling Results



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

New Castle Odor Complaints

Summary of aqueous samples collected 11/6/2014 by Dustin Wyant
Please see Chains of Custody for additional details

Sample ID	Date Collected	Time Collected	Manhole Sampling Location	Analysis
5908 001	11/6/2014	14:12	Rebecca St/Sampson St	Volatiles
5908 003	11/6/2014	14:12	Rebecca St/Sampson St	Ammonia Nitrogen
5908 004	11/6/2014	14:12	Rebecca St/Sampson St	Semivolatiles
5908 006	11/6/2014	14:45	Bailey St/Sampson St	Volatiles
5908 008	11/6/2014	14:45	Bailey St/Sampson St	Ammonia Nitrogen
5908 009	11/6/2014	14:45	Bailey St/Sampson St	Semivolatiles
5908 016	11/6/2014	15:20	Sampson St (NC Paints)	Volatiles
5908 018	11/6/2014	15:20	Sampson St (NC Paints)	Ammonia Nitrogen
5908 019	11/6/2014	15:20	Sampson St (NC Paints)	Semivolatiles
5908 021			Trip Blank	Volatiles



Date of Issue: 11/26/2014 04:13:49

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 001 Date Collected: 11/06/2014 02:12:00 PM Lab Sample ID: O2014008988 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Suite: VOASW

Matrix: Water

Legal Seal:	I024314	Intact:	Yes
Legal Seal:	I024313	Intact:	Yes

Stream Condition:

Sample Lab Comment: Tentatively Identified Compounds (TICs): Acetaldehyde, propanal, isopropyl alcohol, hexanal, multiple alkanes and ketones. QC test(s) out of specification.
Sample data not affected

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
630206 1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71556 1,1,1-Trichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79345 1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79005 1,1,2-Trichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75343 1,1-Dichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Air Qu.

Sample ID: 5908 001 Date Collected: 11/06/2014 02:12:00 PM Lab Sample ID: O2014008988 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
75354 1,1-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
563586 1,1-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
87616 1,2,3-Trichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96184 1,2,3-Trichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
120821 1,2,4-Trichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95636 1,2,4-Trimethylbenzene	312 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96128 1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106934 1,2-Dibromoethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95501 1,2-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
107062 1,2-Dichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78875 1,2-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108678 1,3,5-Trimethylbenzene	66.3 UG/L (Q)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
541731 1,3-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
142289 1,3-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106467 1,4-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
594207 2,2-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
591786 2-Hexanone	10.3 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
99876 4-Isopropyltoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67641 Acetone	2640 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71432 Benzene	1.4 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108861 Bromobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75274 Bromodichloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75252 Bromoform	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74839 Bromomethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75150 Carbon Disulfide	0.60 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
56235 Carbon Tetrachloride	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108907 Chlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75003 Chloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75014 Chloroethene (vinyl chloride)	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67663 Chloroform	1.7 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74873 Chloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156592 cis-1,2-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061015 cis-1,3-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
124481 Dibromochloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74953 Dibromomethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75718 Dichlorodifluoromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Air Qu.

Sample ID: 5908 001 Date Collected: 11/06/2014 02:12:00 PM Lab Sample ID: O2014008988 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
100414 Ethylbenzene	2.6 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
EXTRACTED DATE				
EXTRACTED TIME				
87683 Hexachlorobutadiene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98828 Isopropylbenzene	1.6 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108383 m/p-Xylene	10.2 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78933 MEK	223 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
1634044 Methyl Tert-Butyl Ether	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75092 Methylene Chloride	0.72 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108101 MIBK	12.9 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
91203 Naphthalene	2.8 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
104518 n-Butylbenzene	6.2 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
103651 n-Propylbenzene	19.6 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95498 o-Chlorotoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95476 o-Xylene	8.1 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106434 p-Chlorotoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98566 PCTFB	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
135988 Sec-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
100425 Styrene	21.4 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75650 t-Butyl alcohol	5.0 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
540885 tert-Butyl Acetate	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98066 Tert-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
127184 Tetrachloroethene	0.95 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
109999 Tetrahydrofuran	11.3 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108883 Toluene	1030 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156605 trans-1,2-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061026 trans-1,3-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79016 Trichloroethene	1.4 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75694 Trichlorofluoromethane	22.9 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108054 Vinyl Acetate	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

Analytical Report For
Air Qt

Sample ID: 5908 001 Date Collected: 11/06/2014 02:12:00 PM Lab Sample ID: O2014008988 Status: Completed

ORGANICS LABORATORY QUALIFIERS

- U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.
- J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.
- N - Indicates presumptive evidence of a compound.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)
- Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.
- X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014008988
Operator : A. Schmidt
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 08-NOV-2014 00:44

Client SDG: SDGa04676
Client Smp ID: 5908001
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 42

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-07-0	Acetaldehyde	1.309	21.3	NJ
2. 64-17-5	Ethanol	1.882	4.3	NJ
3. 123-38-6	Propanal	2.084	30.2	NJ
4. 71-23-8	1-Propanol	3.933	628	NJ
5. 123-72-8	Butanal	4.053	15.9	NJ
6. 137-32-6	1-Butanol, 2-methyl-	8.517	8.2	NJ
7. 123-15-9	Pentanal, 2-methyl-	8.593	3.8	NJ
8. 4359-46-0	1,3-Dioxolane, 2-ethyl-4-me	8.762	6.6	NJ
9. 108-11-2	2-Pentanol, 4-methyl-	8.866	54.3	NJ
10. 4359-46-0	1,3-Dioxolane, 2-ethyl-4-me	8.997	5.2	NJ
11. 71-41-0	1-Pentanol	9.160	75.0	NJ
12. 3848-24-6	2,3-Hexanedione	9.275	5.9	NJ
13. 591-78-6	2-Hexanone	9.417	4.6	NJ
14. 106-36-5	Propanoic acid, propyl este	9.493	16.1	NJ
15. 66-25-1	Hexanal	9.537	33.7	NJ
16. 623-36-9	2-Pentenal, 2-methyl-	10.383	66.9	NJ
17. 105-30-6	1-Pentanol, 2-methyl-	10.568	93.2	NJ
18. 123-19-3	4-Heptanone	11.037	25.4	NJ
19. 1000161-72-	3,5-Octanedione, 2,2,4,7-te	11.283	169	NJ
20. 110-43-0	2-Heptanone	11.392	45.8	NJ
21. 589-82-2	3-Heptanol	11.479	268	NJ
22. 620-14-4	Benzene, 1-ethyl-3-methyl-	12.080	142	NJ
23. 611-14-3	Benzene, 1-ethyl-2-methyl-	12.336	43.6	NJ
24. 111-13-7	2-Octanone	12.625	11.7	NJ
25. 5989-27-5	D-Limonene	12.707	24.7	NJ
26. 526-73-8	Benzene, 1,2,3-trimethyl-	12.833	40.2	NJ
27. 496-11-7	Indane	12.980	18.8	NJ
28. 104-76-7	1-Hexanol, 2-ethyl-	13.018	25.7	NJ
29. 1758-88-9	Benzene, 2-ethyl-1,4-dimeth	13.078	8.1	NJ
30. 1120-21-4	Undecane	13.187	3.1	NJ
31. 2870-04-4	Benzene, 2-ethyl-1,3-dimeth	13.362	6.5	NJ
32. 124-19-6	Nonanal	13.607	3.0	NJ
33. 934-74-7	Benzene, 1-ethyl-3,5-dimeth	13.678	1.9	NJ
34. 149-57-5	Hexanoic acid, 2-ethyl-	13.924	2.8	NJ
35. 112-40-3	Dodecane	13.973	6.6	NJ
36. 119-64-2	Naphthalene, 1,2,3,4-tetra	14.093	2.7	NJ
37. 18829-56-6	2-Nonenal, (E)-	14.164	3.7	NJ
38. 5911-04-6	Nonane, 3-methyl-	14.475	3.1	NJ
39. 629-50-5	Tridecane	14.644	4.1	NJ
40. 2809-64-5	Naphthalene, 1,2,3,4-tetra	14.802	4.0	NJ

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014008988
Operator : A. Schmidt
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 08-NOV-2014 00:44

Client SDG: SDGa04676
Client Smp ID: 5908001
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 42

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
41. 90-12-0	Naphthalene, 1-methyl-	15.152	2.7	NJ
42. 629-59-4	Tetradecane	15.250	5.4	NJ



Date of Issue: 11/20/2014 08:54:14

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 003 Date Collected: 11/06/2014 02:12:00 PM Lab Sample ID: I2014033729 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Standard Analysis: 100

Matrix: Water

Legal Seal: ID24315 Intact: Yes

Stream Condition:

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
00610A AMMONIA TOTAL AS NITROGEN	4.02 MG/L	11/15/2014 04:23 AM	CRADEK	EPA 350.1
The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report. * denotes tests that the laboratory is not accredited for ** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP Taru Upadhyay, Technical Director, Bureau of Laboratories				



Date of Issue: 11/20/2014 08:54:06
DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467
Contact Phone Number: (717) 346-7200

NELAP - accredited by
NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 008 Date Collected: 11/06/2014 02:45:00 PM Lab Sample ID: I2014033702 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Standard Analysis: 100

Matrix: Water

Legal Seal: I024320 Intact: Yes

Stream Condition:

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
00610A AMMONIA TOTAL AS NITROGEN	79.03 MG/L	11/15/2014 05:51 AM	CRADEK	EPA 350.1
The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.				
* denotes tests that the laboratory is not accredited for				
** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP				
Taru Upadhyay, Technical Director, Bureau of Laboratories				



Date of Issue: 11/20/2014 08:53:53

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 018 Date Collected: 11/06/2014 03:20:00 PM Lab Sample ID: I2014033707 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

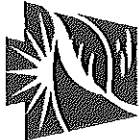
Standard Analysis: 100

Matrix: Water

Legal Seal: I024325 Intact: Yes

Stream Condition:

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
00610A AMMONIA TOTAL AS NITROGEN	3.88 MGL	11/15/2014 04:22 AM	GRADEK	EPA 350.1
The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.				
* denotes tests that the laboratory is not accredited for				
** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP				
Taru Upadhyay, Technical Director, Bureau of Laboratories				



Date of Issue: 12/23/2014 04:08:13
DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467
Contact Phone Number: (717) 346-7200

NELAP - accredited by
NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 004 Date Collected: 11/06/2014 02:12:00 PM Lab Sample ID: O2014009034 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Suite: SV-SW

Matrix: Water

Legal Seal:	I024316	Intact:	Yes
Legal Seal:	I024317	Intact:	Yes

Stream Condition:

Sample Lab Comment: This sample was extracted by separatory funnel because priority analysis was requested. Some of the accreditation-required QC has expired, but the results should still be scientifically valid. Several TICs did not generate good library matches, however they show characteristics of organic carboxylic acid compounds. DILUTED BEFORE ANALYSIS. Endrin and/or DDT breakdown exceeds limits. Complete report of Tentatively Identified Compounds sent via email to Deborah Moray and Dustin Wyant

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
95943 1,2,4,5-Tetrachlorobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120821 1,2,4-Trichlorobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95501 1,2-Dichlorobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
541731 1,3-Dichlorobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For

Air Qui

Status: Completed

Lab Sample ID: O2014009034

Date Collected: 11/06/2014 02:12:00 PM

Sample ID: 5908 004

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
99650 1,3-Dinitrobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
106467 1,4-Dichlorobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
130154 1,4-Naphthoquinone	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
58902 2,3,4,6-Tetrachlorophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95954 2,4,5-Trichlorophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88062 2,4,6-Trichlorophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120832 2,4-Dichlorophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
105679 2,4-Dimethylphenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
51285 2,4-Dinitrophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
121142 2,4-Dinitrotoluene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87650 2,6-Dichlorophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
606202 2,6-Dinitrotoluene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
53963 2-Acetylaminofluorene	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91587 2-Chloronaphthalene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95578 2-Chlorophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91576 2-Methylnaphthalene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95487 2-Methylphenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88744 2-Nitroaniline	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88755 2-Nitrophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
109068 2-Picoline (2-Methylpyridine)	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
1319773 3&4-Methylphenol	96.2 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91941 3,3'-Dichlorobenzidine	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56495 3-Methylcholanthrene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
99092 3-Nitroaniline	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
534521 4,6-Dinitro-2-methylphenol	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low. Continuing calibration recoveries low. Results may be biased low.				
92671 4-Aminobiphenyl	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
101553 4-Bromophenyl-phenyl ether	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
59507 4-Chloro-3-methylphenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
106478 4-Chloroaniline	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
7005723 4-Chlorophenyl-phenyl ether	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100016 4-Nitroaniline	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
100027 4-Nitrophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				

Analytical Report For

Air Quality

Status: Completed

Lab Sample ID: O2014009034

Date Collected: 11/06/2014 02:12:00 PM

Sample ID: 5908 004

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
99558 5-Nitro-o-toluidine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
57976 7,12-Dimethylbenz(a)-anthracen	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
83329 Acenaphthene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
208968 Acenaphthylene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98862 Acetophenone	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62533 Aniline	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120127 Anthracene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
140578 Aramite	96.2 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98555 a-Terpineol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56553 Benz(a)anthracene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
50328 Benzo(a)pyrene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
205992 Benzo(b)fluoranthene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
191242 Benzo(g,h,i)perylene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
207089 Benzo(k)fluoranthene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100516 Benzyl alcohol	106 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
111911 bis(2-Chloroethoxy)methane	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
111444 bis(2-Chloroethyl)ether	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
108601 bis(2-Chloroisopropyl)ether	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
117817 bis(2-Ethylhexyl)phthalate	18.0 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
85687 Butylbenzylphthalate	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
510156 Chlorobenzilate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
218019 Chrysene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
2303164 Diallate (Cis or Trans)	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
53703 Dibenzo(a,h)anthracene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
132649 Dibenzofuran	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
84662 Diethylphthalate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
60515 Dimethoate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
60117 Dimethylaminoazobenzene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
131113 Dimethylphthalate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
84742 Di-n-butylphthalate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
117840 Di-n-octylphthalate	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88857 Dinoseb	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
122394 Diphenylamine	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
298044 Disulfoton	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For
Air Qu

Status: Completed

Lab Sample ID: O2014009034

Date Collected: 11/06/2014 02:12:00 PM

Sample ID: 5908 004

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
62500 Ethyl methanesulfonate	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56382 Ethyl Parathion	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
EXTRACTED DATE	11/02/2014 Day	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
206440 Fluoranthene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
86737 Fluorene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
118741 Hexachlorobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87683 Hexachlorobutadiene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
77474 Hexachlorocyclopentadiene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
67721 Hexachloroethane	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
1988717 Hexachloropropene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
193395 Indeno-1,2,3-cd-pyrene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
465736 Isodrin	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
78591 Isophorone	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120581 Isosafrole	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
66273 Methyl Methanesulfonate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
298000 Methyl Parathion	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91203 Naphthalene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
99953 Nitrobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
924163 N-Nitrosodibutylamine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
55185 N-Nitrosodiethylamine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62759 N-Nitrosodimethylamine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
621647 N-Nitrosodipropylamine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
10595956 N-Nitrosomethylethylamine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
59892 N-Nitrosomorpholine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100754 N-nitrosopiperidine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
930552 N-Nitrosopyrrolidine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
126681 O,O,O-Triethylphosphorothioate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
96534 o-Toluidine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
76017 Pentachlorethane	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
608935 Pentachlorobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
82688 Pentachloronitrobenzene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87865 Pentachlorophenol	48.1 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
85018 Phenanthrene	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For

Air Quality

Status: Completed

Lab Sample ID: O2014009034

Date Collected: 11/06/2014 02:12:00 PM

Sample ID: 5908 004

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
108952 Phenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
298022 Phorate	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
23950585 Pronamide	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
129000 Pyrene	12.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
110861 Pyridine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
94597 Saffrole	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
3689245 Sulfotep	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
297972 Thionazine	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Data File: 9034D10RR.D
Report Date: 22-Dec-2014 09:08

Page 1

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014009034
Operator : C Walter
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 17-DEC-2014 18:18

Client SDG: SDGa00512
Client Smp ID: 5908004
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 41

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 57-55-6	Propylene Glycol	3.505	6190	NJ
2. 108-88-3	Toluene	3.616	746	NJ
3. 627-30-5	1-Propanol, 3-chloro-	4.093	98.6	NJ
4. 105-30-6	1-Pentanol; 2-methyl-	4.271	512	NJ
5. 106-35-4	3-Heptanone	4.796	239	NJ
6. 589-82-2	3-Heptanol	4.916	1300	NJ
7. 116-53-0	Butanoic acid, 2-methyl-	5.672	1940	NJ
8. 611-14-3	Benzene, 1-ethyl-2-methyl-	5.812	42.1	NJ
9. 95-36-3	1,2,4-Trimethylbenzene	5.976	383	NJ
10. 106-65-0	Butanedioic acid, dimethyl	6.260	349	NJ
11. 5989-27-5	D-Limonene	6.342	84.5	NJ
12. 1120-21-4	Undecane	6.977	73.0	NJ
13. 149-57-5	Hexanoic acid, 2-ethyl-	8.085	481	NJ
14. 3302-10-1	Hexanoic acid, 3,5,5-trimet	8.099	5.39	NJ
15. 334-48-5	n-Decanoic acid	9.428	528	NJ
16. 629-59-4	Tetradecane	9.693	167	NJ
17. 126-86-3	2,4,7,9-Tetramethyl-5-decyn	9.770	97.2	NJ
18. 629-78-7	Heptadecane	10.497	154	NJ
19. 143-07-7	Dodecanoic acid	10.916	297	NJ
20. 544-76-3	Hexadecane	11.200	105	NJ
21. 126-73-8	Tributyl phosphate	11.455	91.5	NJ
22. 629-78-7	Heptadecane	11.807	209	NJ
23. 5444-75-7	Benzoic acid, 2-ethylhexyl	11.908	51.1	NJ
24. 544-63-8	Tetradecanoic acid	12.115	515	NJ
25. 593-45-3	Octadecane	12.327	97.2	NJ
26. 1002-84-2	Pentadecanoic acid	12.592	97.9	NJ
27. 2528-36-1	Phosphoric acid, dibutyl ph	12.698	101	NJ
28. 629-92-5	Nonadecane	12.785	119	NJ
29. 112-39-0	Hexadecanoic acid, methyl e	12.881	86.2	NJ
30. 373-49-9	Palmitoleic acid	12.963	475	NJ
31. 57-10-3	Hexadecanoic acid	13.064	4020	NJ
32. 112-95-8	Eicosane	13.189	408	NJ
33. 506-12-7	Heptadecanoic acid	13.415	213	NJ
34. 13481-95-3	10-Octadecenoic acid, methy	13.565	288	NJ
35. 13126-39-1	cis-13-Octadecenoic acid	13.757	9100	NJ
36. 57-11-4	Octadecanoic acid	13.815	2680	NJ
37. 629-97-0	Docosane	14.268	246	NJ
38. 141-22-0	Ricinoleic acid	14.446	2160	NJ
39. 4764-72-1	15-Octadecenoic acid, methy	14.499	962	NJ
40. 506-17-2	cis-Vaccenic acid	15.794	99.7	NJ

Data File: 9034D10RR.D
Report Date: 22-Dec-2014 09:08

Page 2

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

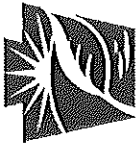
Client Name:
Lab Smp Id: 2014009034
Operator : C Walter
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 17-DEC-2014 18:18

Client SDG: SDGa00512
Client Smp ID: 5908004
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 41

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
41. 111-02-4	Squalene	16.507	594	NJ



Date of Issue: 12/06/2014 04:02:21
DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467
Contact Phone Number: (717) 346-7200

NELAP - accredited by
NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 006 Date Collected: 11/06/2014 02:45:00 PM Lab Sample ID: O2014008990 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Suite: VOASW

Matrix: Water

Legal Seal:	1024318	Intact:	Yes
Legal Seal:	1024319	Intact:	Yes

Stream Condition:

QC test(s) out of specification. Sample data not affected

Sample Lab Comment: TICs: multiple substituted alkanes, naphthalenes, and ketones. This is a revised report

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
630206 1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71556 1,1,1-Trichloroethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79345 1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79005 1,1,2-Trichloroethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75343 1,1-Dichloroethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Air Qu

Status: Completed

Lab Sample ID: O2014008990

Date Collected: 11/06/2014 02:45:00 PM

Sample ID: 5908 006

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
75354 1,1-Dichloroethene	0.50 UG/L (U)	11/12/2014 02:00 AM	JUBLACK	EPA 8260C
563586 1,1-Dichloropropane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
87616 1,2,3-Trichlorobenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96184 1,2,3-Trichloropropane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
120821 1,2,4-Trichlorobenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95636 1,2,4-Trimethylbenzene	101 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96128 1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106934 1,2-Dibromoethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95501 1,2-Dichlorobenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
107062 1,2-Dichloroethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78875 1,2-Dichloropropane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108678 1,3,5-Trimethylbenzene	28.4 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
541731 1,3-Dichlorobenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
142289 1,3-Dichloropropane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106467 1,4-Dichlorobenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
594207 2,2-Dichloropropane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
591786 2-Hexanone	13.7 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
99876 4-Isopropyltoluene	12.9 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67641 Acetone	5060 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71432 Benzene	7.8 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108861 Bromobenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75274 Bromodichloromethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75252 Bromoform	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74839 Bromomethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75150 Carbon Disulfide	9.1 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
56235 Carbon Tetrachloride	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108907 Chlorobenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75003 Chloroethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75014 Chloroethene (vinyl chloride)	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67663 Chloroform	8.8 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74873 Chloromethane	52.4 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156592 cis-1,2-Dichloroethene	1.0 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061015 cis-1,3-Dichloropropene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
124481 Dibromochloromethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74953 Dibromomethane	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75718 Dichlorodifluoromethane	7.8 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Air Qu

Sample ID: 5908 006 Date Collected: 11/06/2014 02:45:00 PM Lab Sample ID: O2014008990 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
100414 Ethylbenzene	15.0 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
EXTRACTED DATE				
EXTRACTED TIME				
87683 Hexachlorobutadiene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98828 Isopropylbenzene	1.7 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108383 m/p-Xylene	62.7 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78933 MEK	446 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
1634044 Methyl Tert-Butyl Ether	0.75 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75092 Methylene Chloride	5.5 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108101 MIBK	83.4 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
91203 Naphthalene	16.6 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
104518 n-Butylbenzene	25.6 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
103651 n-Propylbenzene	12.3 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95498 o-Chlorotoluene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95476 o-Xylene	31.2 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106434 p-Chlorotoluene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98566 PCTFB	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
135988 Sec-Butylbenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
100425 Styrene	9.0 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75650 t-Butyl alcohol	108 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
540885 tert-Butyl Acetate	2.5 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98066 Tert-Butylbenzene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
127184 Tetrachloroethene	2.8 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
109999 Tetrahydrofuran	59.5 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108883 Toluene	390 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156605 trans-1,2-Dichloroethene	0.99 UG/L	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061026 trans-1,3-Dichloropropene	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79016 Trichloroethene	4.8 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75694 Trichlorofluoromethane	121 UG/L (Q)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108054 Vinyl Acetate	0.50 UG/L (U)	11/12/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

Analytical Report For
Air Qu

Sample ID: 5908 006 Date Collected: 11/06/2014 02:45:00 PM Lab Sample ID: O2014008990 Status: Completed

ORGANICS LABORATORY QUALIFIERS

- U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.
- J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.
- N - Indicates presumptive evidence of a compound.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)
- Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.
- X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014008990
Operator : A. Schmidt
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 08-NOV-2014 01:35

Client SDG: SDGa04676
Client Smp ID: 5908006
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 52

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-45-6	Difluorochloromethane	1.069	47.3	NJ
2. 75-07-0	Acetaldehyde	1.265	1980	NJ
3. 60-34-4	Hydrazine, methyl-	1.909	672	NJ
4. 67-63-0	Isopropyl Alcohol	2.362	225	NJ
5. 71-23-8	1-Propanol	3.857	649	NJ
6. 123-72-8	Butanal	4.042	167	NJ
7. 141-78-6	Ethyl Acetate	4.479	39.1	NJ
8. 123-73-9	2-Butenal, (E)-	6.094	59.9	NJ
9. 1000351-95-	2-(2-Methoxyethoxy)ethyl ac	6.307	293	NJ
10. 626-68-6	1,3-Dioxane, 2-methyl-	6.623	164	NJ
11. 71-36-3	1-Butanol	6.694	84.0	NJ
12. 110-62-3	Pentanal	7.022	32.6	NJ
13. 51764-32-0	Azetidine, 1,2-dimethyl-	9.166	116	NJ
14. 105-30-6	1-Pentanol, 2-methyl-	10.574	62.0	NJ
15. 106-35-4	3-Heptanone	11.283	204	NJ
16. 1000331-08-	Cyclobutanecarboxylic acid,	11.338	121	NJ
17. 110-43-0	2-Heptanone	11.392	79.1	NJ
18. 589-82-2	3-Heptanol	11.479	292	NJ
19. 62016-28-8	Octane, 2,2,6-trimethyl-	11.785	7.0	NJ
20. 124-18-5	Decane	12.211	7.9	NJ
21. 62238-14-6	Decane, 2,3,8-trimethyl-	12.674	10.4	NJ
22. 5989-27-5	D-Limonene	12.713	6.5	NJ
23. 527-84-4	o-Cymene	12.762	5.0	NJ
24. 526-73-8	Benzene, 1,2,3-trimethyl-	12.833	8.0	NJ
25. 62108-31-0	Heptane, 4-ethyl-2,2,6,6-te	12.871	10.2	NJ
26. 62108-31-0	Heptane, 4-ethyl-2,2,6,6-te	12.909	8.6	NJ
27. 1120-21-4	Undecane	13.193	25.1	NJ
28. 1000309-14-	Sulfurous acid, pentyl unde	13.225	4.5	NJ
29. 124-18-5	Decane	13.340	4.5	NJ
30. 111-87-5	1-Octanol	13.378	9.0	NJ
31. 4176-04-9	Bicyclo[4.1.0]heptan-3-one,	13.520	6.4	NJ
32. 4292-92-6	Cyclohexane, pentyl-	13.607	4.6	NJ
33. 1632-70-8	Undecane, 5-methyl-	13.646	5.6	NJ
34. 7045-71-8	Undecane, 2-methyl-	13.706	4.0	NJ
35. 5911-04-6	Nonane, 3-methyl-	13.771	7.9	NJ
36. 112-40-3	Dodecane	13.973	27.4	NJ
37. 2177-47-1	2-Methylindene	14.028	6.0	NJ
38. 17301-23-4	Undecane, 2,6-dimethyl-	14.077	11.2	NJ
39. 4292-75-5	Cyclohexane, hexyl-	14.377	4.2	NJ
40. 61141-72-8	Dodecane, 4,6-dimethyl-	14.475	7.4	NJ

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

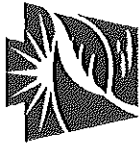
Client Name:
Lab Smp Id: 2014008990
Operator : A. Schmidt
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 08-NOV-2014 01:35

Client SDG: SDGa04676
Client Smp ID: 5908006
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 52

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
41. 629-50-5	Tridecane	14.644	13.6	NJ
42. 1680-51-9	Naphthalene, 1,2,3,4-tetra	14.802	3.5	NJ
43. 18636-55-0	1H-Indene, 1,1-dimethyl-	14.830	1.9	NJ
44. 2717-44-4	Naphthalene, 1,2-dihydro-3-	14.928	1.7	NJ
45. 2809-64-5	Naphthalene, 1,2,3,4-tetra	15.015	2.5	NJ
46. 5617-41-4	Heptylcyclohexane	15.042	3.1	NJ
47. 1560-95-8	Tetradecane, 2-methyl-	15.092	1.4	NJ
48. 13065-07-1	Naphthalene, 1,2,3,4-tetra	15.130	4.8	NJ
49. 1129-29-9	Benzene, 1-(1-methylethenyl	15.179	1.2	NJ
50. 629-59-4	Tetradecane	15.250	6.5	NJ
51. 5557-93-7	Benzene, 1-(1-methylethenyl	15.381	1.8	NJ
52. 544-76-3	Hexadecane	15.610	1.9	NJ



Date of Issue: 12/23/2014 04:08:12
DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467
Contact Phone Number: (717) 346-7200

NELAP - accredited by
NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 009 Date Collected: 11/06/2014 02:45:00 PM Lab Sample ID: O2014009036 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Suite: SV-SW

Matrix: Water

Legal Seal:	1024321	Intact:	Yes
Legal Seal:	1024322	Intact:	Yes

Stream Condition:

Sample Lab Comment: This sample was extracted by separatory funnel because priority analysis was requested. Some of the accreditation-required QC has expired, but the results should still be scientifically valid. Matrix spike recoveries could not be evaluated due to high concentrations of target and non-target analytes present in the sample. The compound pentachlorophenol was detected in this sample. However, associated QC indicates that this may be a false positive, and pentachlorophenol has not been reported DILUTED BEFORE ANALYSIS. Endrin and/or DDT breakdown exceeds limits. Complete report of Tentatively Identified Compounds sent via email to Dustin Wyant and Deborah Morvay.

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
95943 1,2,4,5-Tetrachlorobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120821 1,2,4-Trichlorobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95501 1,2-Dichlorobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For
Air Qu.

Sample ID: 5908 009

Date Collected: 11/06/2014 02:45:00 PM

Lab Sample ID: O2014009036

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
541731 1,3-Dichlorobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
99650 1,3-Dinitrobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
106467 1,4-Dichlorobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
130154 1,4-Naphthoquinone	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
58902 2,3,4,6-Tetrachlorophenol	276 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95954 2,4,5-Trichlorophenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88062 2,4,6-Trichlorophenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120832 2,4-Dichlorophenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
105679 2,4-Dimethylphenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
51285 2,4-Dinitrophenol	2400 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
121142 2,4-Dinitrotoluene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87650 2,6-Dichlorophenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
606202 2,6-Dinitrotoluene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
53963 2-Acetylaminofluorene	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91587 2-Chloronaphthalene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95578 2-Chlorophenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91576 2-Methylnaphthalene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95487 2-Methylphenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88744 2-Nitroaniline	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88755 2-Nitrophenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
109088 2-Picoline (2-Methylpyridine)	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
1319773 3&4-Methylphenol	962 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91941 3,3-Dichlorobenzidine	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56495 3-Methylcholanthrene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
99092 3-Nitroaniline	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
534521 4,6-Dinitro-2-methylphenol	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
92671 4-Aminobiphenyl	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
101553 4-Bromophenyl-phenyl ether	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
59507 4-Chloro-3-methylphenol	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
106478 4-Chloroaniline	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
7005723 4-Chlorophenyl-phenyl ether	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100016 4-Nitroaniline	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
100027 4-Nitrophenol	2400 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For
Air Qu.

Sample ID: 5908 009

Date Collected: 11/06/2014 02:45:00 PM

Lab Sample ID: O2014009036

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
Low-level LFB recovery low. Reporting limit may be biased low.				
99558 5-Nitro-o-toluidine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
57976 7,12-Dimethylbenz(a)anthracen	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
83329 Acenaphthene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
208968 Acenaphthylene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98862 Acetophenone	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62533 Aniline	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120127 Anthracene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
140578 Aramite	962 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98555 a-Terpineol	243 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56553 Benz(a)anthracene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
50328 Benzo(a)pyrene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
205992 Benzo(b)fluoranthene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
191242 Benzo(g,h,i)perylene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
207089 Benzo(k)fluoranthene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100516 Benzyl alcohol	2500 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
111911 bis(2-Chloroethoxy)methane	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
111444 bis(2-Chloroethyl)ether	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
108601 bis(2-Chloroisopropyl)ether	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
117817 bis(2-Ethylhexyl)phthalate	129 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
85687 Butylbenzylphthalate	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
510156 Chlorobenzilate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
218019 Chrysene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
2303164 Diallate (Cis or Trans)	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
53703 Dibenzo(a,h)anthracene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
132649 Dibenzofuran	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
84662 Diethylphthalate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
60515 Dimethoate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
60117 Dimethylaminoazobenzene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
131113 Dimethylphthalate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
84742 Di-n-butylphthalate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
117840 Di-n-octylphthalate	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88857 Dinoseb	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
122394 Diphenylamine	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

**Analytical Report For
Air Qu.**

Sample ID: 5908 009 Date Collected: 11/06/2014 02:45:00 PM Lab Sample ID: O2014009036 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
298044 Disulfoton	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62500 Ethyl methanesulfonate	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56382 Ethyl Parathion	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
EXTRACTED DATE	11/02/2014 Day	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
206440 Fluoranthene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
86737 Fluorene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
118741 Hexachlorobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87683 Hexachlorobutadiene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
77474 Hexachlorocyclopentadiene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
67721 Hexachloroethane	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
1888717 Hexachloropropene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
193395 Indeno-1,2,3-cd-pyrene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
465736 Isodrin	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
78591 Isophorone	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120581 Isosafrole	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
66273 Methyl Methanesulfonate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
298000 Methyl Parathion	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91203 Napthalene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98953 Nitrobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
924163 N-Nitrosodibutylamine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
55185 N-Nitrosodiethylamine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62759 N-Nitrosodimethylamine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
621647 N-Nitrosodipropylamine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
10595956 N-Nitrosomethylethylamine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
59892 N-Nitrosomorpholine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100754 N-nitrosopiperidine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
930552 N-Nitrosopyrrolidine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
126881 O,O,O-Triethylphosphorothioate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95534 o-Toluidine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
76017 Pentachloroethane	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
608935 Pentachlorobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
82688 Pentachloronitrobenzene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87865 Pentachlorophenol	481 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
85018 Phenanthrene	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For Air Qu.

Sample ID: 5908 009

Date Collected: 11/06/2014 02:45:00 PM

Lab Sample ID: O2014009036

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
108952 Phenol	733 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Mid-level LCS recovery low. Results may be biased low.				
298022 Phorate	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
23950585 Pronamide	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
129000 Pyrene	120 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
110861 Pyridine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
94597 Safrole	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
3689245 Sulfotep	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
297972 Thionazine	240 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Data File: 9036D50RR.D
Report Date: 22-Dec-2014 12:58

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PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014009036
Operator : C Walter
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 17-DEC-2014 13:16

Client SDG: SDGa00512
Client Smp ID: 5908009
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 46

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 57-55-6	Propylene Glycol	3.303	3080	NJ
2. 497-03-0	2-Butenal, 2-methyl-, (E)-	3.366	1570	NJ
3. 108-11-2	2-Pentanol, 4-methyl-	3.510	459	NJ
4. 71-41-0	1-Pentanol	3.578	621	NJ
5. 108-88-3	Toluene	3.616	723	NJ
6. 107-92-6	Butanoic acid	3.924	9340	NJ
7. 123-42-2	2-Pentanone, 4-hydroxy-4-me	4.329	1190	NJ
8. 109-52-4	Pentanoic acid	4.883	9310	NJ
9. 111-76-2	Ethanol, 2-butoxy-	4.989	1890	NJ
10. 123-32-0	Pyrazine, 2,5-dimethyl-	5.094	1150	NJ
11. 5131-66-8	2-Propanol, 1-butoxy-	5.359	3500	NJ
12. 95-63-6	Benzene, 1,2,4-trimethyl-	5.971	1210	NJ
13. 104-76-7	1-Hexanol, 2-ethyl-	6.260	8800	NJ
14. 1120-21-4	Undecane	6.977	1580	NJ
15. 149-57-5	Hexanoic acid, 2-ethyl-	7.488	69900	NJ
16. 3302-10-1	Hexanoic acid, 3,5,5-trimet	7.570	4860	NJ
17. 124-07-2	Octanoic acid	7.825	16300	NJ
18. 122-99-6	Ethanol, 2-phenoxy-	8.171	1040	NJ
19. 29911-28-2	2-Propanol, 1-(2-butoxy-1-m	8.292	2060	NJ
20. 29911-28-2	2-Propanol, 1-(2-butoxy-1-m	8.326	2070	NJ
21. 770-35-4	1-Phenoxypropan-2-ol	8.403	4500	NJ
22. 20324-33-8	2-Propanol, 1-[2-(2-methoxy	8.691	2220	NJ
23. 629-50-5	Tridecane	8.836	1760	NJ
24. 334-48-5	n-Decanoic acid	9.395	909	NJ
25. 638-36-8	Hexadecane, 2,6,10,14-tetra	9.481	937	NJ
26. 629-59-4	Tetradecane	9.683	2330	NJ
27. 101-83-7	Cyclohexanamine, N-cyclohex	10.025	36600	NJ
28. 143-22-6	Ethanol, 2-[2-(2-butoxyetho	10.204	2320	NJ
29. 629-62-9	Pentadecane	10.488	1930	NJ
30. 143-07-7	Dodecanoic acid	10.911	2620	NJ
31. 544-76-3	Hexadecane	11.200	1620	NJ
32. 629-78-7	Heptadecane	11.807	3890	NJ
33. 42978-66-5	2-Propenoic acid, (1-methyl	12.043	2620	NJ
34. 544-63-8	Tetradecanoic acid	12.106	2160	NJ
35. 593-45-3	Octadecane	12.327	1640	NJ
36. 638-36-8	Hexadecane, 2,6,10,14-tetra	12.361	794	NJ
37. 629-92-5	Nonadecane	12.785	1690	NJ
38. 57-10-3	Hexadecanoic acid	13.035	6850	NJ
39. 112-95-8	Eicosane	13.189	2210	NJ
40. 629-94-7	Heneicosane	13.560	3390	NJ

Data File: 9036D50RR.D
Report Date: 22-Dec-2014 12:58

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PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014009036
Operator : C Walter
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 17-DEC-2014 13:16

Client SDG: SDGa00512
Client Smp ID: 5908009
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 46

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
41. 1000336-66-	6-Octadecenoic acid	13.714	12400	NJ
42. 57-11-4	Octadecanoic acid	13.781	5730	NJ
43. 629-97-0	Docosane	13.911	382	NJ
44. 638-67-5	Tricosane	14.268	295	NJ
45. 629-99-2	Pentacosane	15.024	1090	NJ
46. 1560-88-9	Octadecane, 2-methyl-	15.158	214	NJ



Date of Issue: 11/26/2014 04:15:42

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 016 Date Collected: 11/06/2014 03:20:00 PM Lab Sample ID: O2014008992 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Suite: VOASW

Matrix: Water

Legal Seal:	1024323	Intact:	Yes
Legal Seal:	1024324	Intact:	Yes

Stream Condition:

QC test(s) out of specification. Sample data not affected

Sample Lab Comment: T1Cs: limonene, 2,6-dimethyl-7-Octen-2-ol, dodecane, tridecane.

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
630206 1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71556 1,1,1-Trichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79345 1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79005 1,1,2-Trichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75343 1,1-Dichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Air Qu.

Sample ID: 5908 016 Date Collected: 11/06/2014 03:20:00 PM Lab Sample ID: O2014008992 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
75354 1,1-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
563586 1,1-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
87616 1,2,3-Trichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96184 1,2,3-Trichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
120821 1,2,4-Trichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95636 1,2,4-Trimethylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96128 1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106934 1,2-Dibromoethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95501 1,2-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
107062 1,2-Dichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78875 1,2-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108678 1,3,5-Trimethylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
541731 1,3-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
142289 1,3-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106467 1,4-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
594207 2,2-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
591786 2-Hexanone	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
99876 4-Isopropyltoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67641 Acetone	6.4 UG/L (Q)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71432 Benzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
103861 Bromobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75274 Bromodichloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75252 Bromoform	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74839 Bromomethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75150 Carbon Disulfide	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
56235 Carbon Tetrachloride	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108907 Chlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75003 Chloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75014 Chloroethene (vinyl chloride)	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67663 Chloroform	1.0 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74873 Chloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156592 cis-1,2-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061015 cis-1,3-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
124481 Dibromochloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74953 Dibromomethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75718 Dichlorodifluoromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Air Q1

Sample ID: 5908 016

Date Collected: 11/06/2014 03:20:00 PM

Lab Sample ID: O2014008992

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
100414 Ethylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
EXTRACTED DATE				
EXTRACTED TIME				
87683 Hexachlorobutadiene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98828 Isopropylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108383 m/p-Xylene	1.0 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78933 MEK	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
1634044 Methyl Tert-Butyl Ether	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75092 Methylene Chloride	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108101 MIBK	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
91203 Naphthalene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
104518 n-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
103651 n-Propylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95498 o-Chlorotoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95476 o-Xylene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106434 p-Chlorotoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98566 PCTFB	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
135988 Sec-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
100425 Styrene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75650 t-Butyl alcohol	5.0 UG/L	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
540885 tert-Butyl Acetate	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98066 Tert-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
127184 Tetrachloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
109999 Tetrahydrofuran	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108883 Toluene	3.1 UG/L (Q)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156805 trans-1,2-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061026 trans-1,3-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79016 Trichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75694 Trichlorofluoromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108054 Vinyl Acetate	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

Analytical Report For

Air Qu

Status: Completed

Lab Sample ID: O2014008992

Date Collected: 11/06/2014 03:20:00 PM

Sample ID: 5908 016

ORGANICS LABORATORY QUALIFIERS

- U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.
- J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.
- N - Indicates presumptive evidence of a compound.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)
- Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.
- X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014008992
Operator : A. Schmidt
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 08-NOV-2014 02:28

Client SDG: SDGa04676
Client Smp ID: 5908016
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 104-76-7	1-Hexanol, 2-ethyl-	13.018	2.0	NJ
2. 1120-21-4	Undecane	13.187	0.67	NJ
3. 1000162-25-	Cyclopentene, 3-isopropenyl	13.586	0.43	NJ
4. 620-23-5	Benzaldehyde, 3-methyl-	13.678	0.50	NJ
5. 149-57-5	Hexanoic acid, 2-ethyl-	13.924	0.71	NJ
6. 112-40-3	Dodecane	13.973	1.3	NJ
7. 18968-23-5	Bicyclo[4.1.0]heptane, 3,7,	14.262	0.86	NJ
8. 17302-28-2	Nonane, 2,6-dimethyl-	14.475	0.48	NJ
9. 629-50-5	Tridecane	14.644	1.5	NJ
10. 638-36-8	Hexadecane, 2,6,10,14-tetra	15.130	0.66	NJ
11. 629-59-4	Tetradecane	15.250	4.9	NJ
12. 544-76-3	Hexadecane	15.615	3.7	NJ
13. 629-62-9	Pentadecane	15.828	7.4	NJ
14. 128-39-2	Phenol, 2,6-bis(1,1-dimethy	15.894	2.6	NJ
15. 575-41-7	Naphthalene, 1,3-dimethyl-	15.932	3.0	NJ
16. 575-43-9	Naphthalene, 1,6-dimethyl-	15.959	3.2	NJ
17. 569-41-5	Naphthalene, 1,8-dimethyl-	16.112	4.6	NJ
18. 643-93-6	1,1'-Biphenyl, 3-methyl-	16.297	5.3	NJ
19. 643-93-6	1,1'-Biphenyl, 3-methyl-	16.297	5.3	NJ
20. 544-76-3	Hexadecane	16.488	2.9	NJ



Date of Issue: 12/23/2014 04:10:40

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 019 Date Collected: 11/06/2014 03:20:00 PM Lab Sample ID: Q2014009038 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Suite: SV-SW

Matrix: Water

Legal Seal:	I024327	Intact:	Yes
Legal Seal:	I024326	Intact:	Yes

Stream Condition:

Sample Lab Comment: This sample was extracted by separatory funnel because priority analysis was requested. Some of the accreditation-required QC has expired, but the results should still be scientifically valid. Endrin and/or DDT breakdown exceeds limits. Complete reports of Tentatively Identified Compounds sent via email to Dustin Wyant and Deborah Morway.

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
95943 1,2,4,5-Tetrachlorobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120821 1,2,4-Trichlorobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95501 1,2-Dichlorobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
541731 1,3-Dichlorobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
99650 1,3-Dinitrobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For

Air Qu.

Sample ID: 5908 019

Date Collected: 11/06/2014 03:20:00 PM

Lab Sample ID: O2014009038

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
106467 1,4-Dichlorobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
130154 1,4-Naphthoquinone	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
58902 2,3,4,6-Tetrachlorophenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95954 2,4,5-Trichlorophenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88062 2,4,6-Trichlorophenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120832 2,4-Dichlorophenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
106679 2,4-Dimethylphenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
51285 2,4-Dinitrophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
121142 2,4-Dinitrotoluene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87650 2,6-Dichlorophenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
606202 2,6-Dinitrotoluene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
53963 2-Acetylaminofluorene	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91587 2-Chloronaphthalene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95578 2-Chlorophenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91576 2-Methylnaphthalene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95487 2-Methylphenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88744 2-Nitroaniline	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88755 2-Nitrophenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
109068 2-Picoline (2-Methylpyridine)	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
1319773 3&4-Methylphenol	9.62 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91941 3,3'-Dichlorobenzidine	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56495 3-Methylcholanthrene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
99092 3-Nitroaniline	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
534521 4,6-Dinitro-2-methylphenol	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low. Continuing calibration recoveries low. Results may be biased low.				
92671 4-Aminobiphenyl	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
101553 4-Bromophenyl-phenyl ether	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
59507 4-Chloro-3-methylphenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
106478 4-Chloroaniline	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
7005723 4-Chlorophenyl-phenyl ether	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100016 4-Nitroaniline	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
100027 4-Nitrophenol	24.0 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
99558 5-Nitro-o-toluidine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For
Air Q. 4

Sample ID: 5908 019

Date Collected: 11/06/2014 03:20:00 PM

Lab Sample ID: O2014009038

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
57976 7,12-Dimethylbenz(a)-anthracen	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
83329 Acenaphthene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
208968 Acenaphthylene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98862 Acetophenone	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62533 Aniline	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120127 Anthracene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
140578 Aramite	9.62 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98555 a-Terpineol	2.72 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
56553 Benz(a)anthracene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
50328 Benzo(a)pyrene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
205992 Benzo(b)fluoranthene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
191242 Benzo(g,h,i)perylene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
207089 Benzo(k)fluoranthene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100516 Benzyl alcohol	2.74 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
111911 bis(2-Chloroethoxy)methane	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
111444 bis(2-Chloroethyl)ether	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
108601 bis(2-Chloroisopropyl)ether	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
117817 bis(2-Ethylhexyl)phthalate	4.51 UG/L	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
85687 Butylbenzylphthalate	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
510156 Chlorobenzilate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
218019 Chrysene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
2303164 Diallate (Cis or Trans)	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
53703 Dibenzo(a,h)anthracene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
132649 Dibenzofuran	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
84662 Diethylphthalate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
60515 Dimethoate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
60117 Dimethylaminoazobenzene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
131113 Dimethylphthalate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
84742 Di-n-butylphthalate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
117840 Di-n-octylphthalate	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
88857 Dinoseb	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
122394 Diphenylamine	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
298044 Disulfoton	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62500 Ethyl methanesulfonate	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For
Air Qu.

Sample ID: 5908 019

Date Collected: 11/06/2014 03:20:00 PM

Lab Sample ID: O2014009038

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
56382 Ethyl Parathion	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
EXTRACTED DATE	11/02/2014 Day	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
206440 Fluoranthene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
86737 Fluorene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
118741 Hexachlorobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87683 Hexachlorobutadiene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
77474 Hexachlorocyclopentadiene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
67721 Hexachloroethane	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
1888717 Hexachloropropene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
193395 Indeno-1,2,3-cd-pyrene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
465736 Isodrin	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
78591 Isophorone	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
120581 Isosafrole	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
66273 Methyl Methanesulfonate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
298000 Methyl Parathion	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
91203 Naphthalene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
98953 Nitrobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
924163 N-Nitrosodibutylamine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
55185 N-Nitrosodiethylamine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
62759 N-Nitrosodimethylamine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
621647 N-Nitrosodipropylamine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
10595956 N-Nitrosomethylethylamine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
59892 N-Nitrosomorpholine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
100754 N-nitrosopiperidine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
930552 N-Nitrosopyrrolidine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
126681 O,O,O-Triethylphosphorothioate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
95534 o-Toluidine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
76017 Pentachloroethane	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
608935 Pentachlorobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
82688 Pentachloronitrobenzene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
87865 Pentachlorophenol	4.81 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
85018 Phenanthrene	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
108952 Phenol	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For Air Qu.

Sample ID: 5908 019

Date Collected: 11/06/2014 03:20:00 PM

Lab Sample ID: O2014009038

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
298022 Phorate	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
23950585 Pronamide	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
129000 Pyrene	1.20 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
110861 Pyridine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
94597 Safole	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
3689245 Sulfotep	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D
297972 Thionazine	2.40 UG/L (U)	12/17/2014 02:00 AM	CARWALTER	EPA 8270D

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
 Lab Smp Id: 2014009038
 Operator : C Walter
 Sample Location:
 Sample Matrix: WATER
 Analysis Type: SV
 Inj Date: 17-DEC-2014 16:17

Client SDG: SDGa00512
 Client Smp ID: 5908019
 Sample Date:
 Sample Point:
 Date Received:
 Level: LOW

Number TICs found: 43

CONCENTRATION UNITS:
 (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1569-50-2	3-Penten-2-ol	2.831	20.1	NJ
2. 108-88-3	Toluene	3.621	4.22	NJ
3. 544-12-7	3-Hexen-1-ol	3.920	7.30	NJ
4. 626-93-7	2-Hexanol	4.040	4.94	NJ
5. 503-74-2	Butanoic acid, 3-methyl-	4.232	3.39	NJ
6. 1000154-28-	Cyclopentene, 1,2,3,4,5-pen	4.926	3.68	NJ
7. 1000154-28-	Cyclopentene, 1,2,3,4,5-pen	5.171	6.66	NJ
8. 103-83-3	Benzenemethanamine, N,N-dim	6.448	1.58	NJ
9. 18479-58-8	7-Octen-2-ol, 2,6-dimethyl-	6.698	19.4	NJ
10. 78-70-6	1,6-Octadien-3-ol, 3,7-dime	6.982	3.87	NJ
11. 149-57-5	Hexanoic acid, 2-ethyl-	7.069	7.79	NJ
12. 541-02-6	Cyclopentasiloxane, decamet	7.237	4.29	NJ
13. 124-07-2	Octanoic acid	7.565	4.59	NJ
14. 15356-70-4	Cyclohexanol, 5-methyl-2-(1	7.805	4.95	NJ
15. 25572-25-2	Ethane-1,1-diol dibutanoate	8.109	5.07	NJ
16. 122-99-6	Ethanol, 2-phenoxy-	8.157	5.12	NJ
17. 143-07-7	Dodecanoic acid	10.911	24.7	NJ
18. 15687-27-1	Ibuprofen	11.335	3.23	NJ
19. 24851-98-7	Cyclopentaneacetic acid, 3-	11.542	5.04	NJ
20. 294-62-2	Cyclododecane	11.691	4.51	NJ
21. 6259-76-3	n-Hexyl salicylate	11.754	6.24	NJ
22. 112-75-4	1-Tetradecanamine, N,N-dime	11.850	6.48	NJ
23. 14933-09-6	3(N,N-Dimethylmyristylammon	11.903	10.8	NJ
24. 544-63-8	Tetradecanoic acid	12.134	108	NJ
25. 629-76-5	n-Pentadecanol	12.245	14.3	NJ
26. 593-45-3	Octadecane	12.327	5.10	NJ
27. 1002-84-2	Pentadecanoic acid	12.602	24.7	NJ
28. 58-08-2	Caffeine	12.635	16.4	NJ
29. 13360-61-7	1-Pentadecene	12.717	43.8	NJ
30. 57-10-3	Hexadecanoic acid	13.122	1120	NJ
31. 506-12-7	Heptadecanoic acid	13.430	75.5	NJ
32. 112-88-9	1-Octadecene	13.526	103	NJ
33. 506-17-2	cis-Vaccenic acid	13.757	807	NJ
34. 57-11-4	Octadecanoic acid	13.849	786	NJ
35. 646-31-1	Tetracosane	15.019	10.7	NJ
36. 54833-48-6	Heptadecane, 2,6,10,15-tetr	15.438	31.8	NJ
37. 593-49-7	Heptacosane	15.890	29.8	NJ
38. 137-89-3	1,3-Benzenedicarboxylic aci	16.150	22.0	NJ
39. 630-02-4	Octacosane	16.382	83.4	NJ
40. 111-02-4	Squalene	16.512	182	NJ

Data File: \\eplas15\TargetData\2014\hp5973b.i\141216.b\9038RR.D Page 2
Report Date: 22-Dec-2014 09:44

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014009038
Operator : C Walter
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 17-DEC-2014 16:17

Client SDG: SDGa00512
Client Smp ID: 5908019
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 43

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
41. 629-93-6	Octadecane, 1-iodo-	17.494	39.5	NJ
42. 80-97-7	Cholestanol	18.385	198	NJ
43. 57-88-5	Cholesterol	18.616	246	NJ



Date of Issue: 12/06/2014 04:12:04
DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467
Contact Phone Number: (717) 346-7200

NELAP - accredited by
NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Air Quality

Sample ID: 5908 021 Date Collected: 11/06/2014 11:40:00 AM Lab Sample ID: O2014008994 Status: Completed

Name of Sample Collector: Dustin C Wyant

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Emergency

Project: NOT INDICATED

Suite: VOASW

Matrix: Water

Legal Seal:	1024311	Intact:	Yes
Legal Seal:	1024312	Intact:	Yes

Stream Condition:

QC test(s) out of specification. Sample data not affected

Sample Lab Comment: This is a revised report

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
630206 1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71556 1,1,1-Trichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79345 1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79005 1,1,2-Trichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75343 1,1-Dichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For

Air Qi

Status: Completed

Lab Sample ID: O2014008994

Date Collected: 11/06/2014 11:40:00 AM

Sample ID: 5908 021

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
75354 1,1-Dichloroethene	0.91 UG/L	11/10/2014 02:00 AM	JUBLACK	EPA 8260C
563586 1,1-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
87616 1,2,3-Trichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96184 1,2,3-Trichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
120821 1,2,4-Trichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95636 1,2,4-Trimethylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96128 1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106934 1,2-Dibromoethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95501 1,2-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
107062 1,2-Dichloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78875 1,2-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108678 1,3,5-Trimethylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
541731 1,3-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
142289 1,3-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106467 1,4-Dichlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
594207 2,2-Dichloropropane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
591786 2-Hexanone	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
99876 4-Isopropyltoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67641 Acetone	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71432 Benzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108861 Bromobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75274 Bromodichloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75252 Bromoform	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74839 Bromomethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75150 Carbon Disulfide	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
56235 Carbon Tetrachloride	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108907 Chlorobenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75003 Chloroethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75014 Chloroethene (vinyl chloride)	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67663 Chloroform	1.0 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74873 Chloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156592 cis-1,2-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061015 cis-1,3-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
124481 Dibromochloromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74953 Dibromomethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75718 Dichlorodifluoromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For

Air Q1

Status: Completed

Lab Sample ID: O2014008994

Date Collected: 11/06/2014 11:40:00 AM

Sample ID: 5908 021

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
100414 Ethylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
EXTRACTED DATE		11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
EXTRACTED TIME		11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
87683 Hexachlorobutadiene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98828 Isopropylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108383 m/p-Xylene	1.0 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78933 MEK	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
1634044 Methyl Tert-Butyl Ether	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75092 Methylene Chloride	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108101 MIBK	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
91203 Naphthalene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
104518 n-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
103651 n-Propylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95498 o-Chlorotoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95476 o-Xylene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106434 p-Chlorotoluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98566 PCTFB	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
135988 Sec-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
100425 Styrene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75650 t-Butyl alcohol	7.2 UG/L (Q)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
540885 tert-Butyl Acetate	2.5 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98066 Tert-Butylbenzene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
127184 Tetrachloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
109999 Tetrahydrofuran	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108883 Toluene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156605 trans-1,2-Dichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061026 trans-1,3-Dichloropropene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79016 Trichloroethene	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75694 Trichlorofluoromethane	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108054 Vinyl Acetate	0.50 UG/L (U)	11/10/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

Analytical Report For
Air Qu

Sample ID: 5908 021 Date Collected: 11/06/2014 11:40:00 AM Lab Sample ID: O2014008994 Status: Completed

ORGANICS LABORATORY QUALIFIERS

- U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.
- J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.
- N - Indicates presumptive evidence of a compound.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)
- Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.
- X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2014008994
Operator : A. Schmidt
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 08-NOV-2014 03:21

Client SDG: SDGa04676
Client Smp ID: 5908021
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 1717-00-6	1,1-Dichloro-1-fluoroethane	1.887	2.9	NJ
2. 1120-73-6	2-Cyclopenten-1-one, 2-meth	11.834	0.39	NJ
3. 104-76-7	1-Hexanol, 2-ethyl-	13.018	0.47	NJ
4. 112-40-3	Dodecane	13.973	0.36	NJ
5. 629-50-5	Tridecane	14.644	0.54	NJ
6. 629-59-4	Tetradecane	15.250	1.6	NJ
7. 1560-93-6	Pentadecane, 2-methyl-	15.615	0.79	NJ
8. 629-62-9	Pentadecane	15.828	2.9	NJ
9. 544-76-3	Hexadecane	16.488	2.0	NJ



DEPARTMENT OF ENVIRONMENTAL PROTECTION
PENNSYLVANIA

PLEASE PRINT:

Collector I.D. #			Reason Code	Cost Center	Program Code		
5	9	08			9	9	0

LABORATORY USE ONLY

☐ YES	☐ NO
------------------------------	-----------------------------

Temp. $< 8^{\circ}\text{C}$?

(819114)

1111

[illegible]

NUMBER OF INORGANIC CONTAINERS SENT:		NUMBER OF ORGANIC CONTAINERS SENT:		Additional Information:	
# of Unpreserv:		# Preserved	# Unpreserved		
# of N/P:	1	40 mL VOA:	40 mL VOA:	500 mL Amber:	
# of Phenol:		60 mL VOA:	60 mL VOA:	20 mL scint.:	
# of TOC:		1 L Amber:	Encore:	Other:	
# of O&G:		Other:	1 L Amber:		
# of Fe+2:					
Verified by (lab Initials):		Verified by (lab Initials):			

Facility Name:

Facility ID #:

Alternate Contact:

Sample Collector Name: Dustin Wyant

Phone: 814-573-3607

How Shipped:

☒ commercial courier

Hand Delivered

Chain of Custody	Print Name	Signature	Date	Time
Relinquished by Sample Collector:	Dustin Wyant	Dustin Wyant	11-6-14	
Accepted by:				
Relinquished by:				
Received at the Bureau of Labs:		(lab - initials only)	(lab - date only)	



Collector I.D. #			Reason Code	Cost Center	Program Code
5	9	08	9	0	0
			9	0	0
				4	0

Temp. $\leq 6^{\circ}\text{C}$? ☐ YES ☐ NO

[illegible]

NUMBER OF ORGANIC CONTAINERS SENT:

NUMBER OF INORGANIC CONTAINERS SENT:

# of Unpreserv:		# of CN:
# of N/P:	1	# of Metals:
# of Phenol:		# of TPH
# of TOC:		# of DOC
# of O&G:		# of Sulfide:
# of Fe+2:		Other:

Preserved:
40 mL VOA:
60 mL VOA:
1 L Amber:
Other:

Unpreserved
40 mL VOA: :
60 mL VOA:
Encode:
1 L Amber:

500 mL Amber:	
20 mL solnt:	
Other:	

Verified by (lab initials):

Verified by (lab initials):

Facility Name:

Facility ID #:

Alternate Contact:

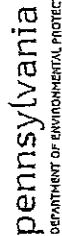
Sample Collector Name: Duska Uyen Phone: 814-573-3607

How Shipped: ☒ commercial courier

☐ Hand Delivered

Chain of Custody	Print Name	Signature	Date	Time
Relinquished by Sample Collector:	Dustin Wygant	Dustin Wygant	11-6-14	
Accepted by:				
Relinquished by:				
Received at the Bureau of Labs:				
		(lab - initials only)		(lab - date only)

(lab - date only)



Collector I.D. #			Reason Code	Cost Center	Program Code		
5	9	08	99	004	000	9	

Temp. $\leq 6^{\circ}\text{C}$? ☐ YES ☐ NO

Sequence Number	Date Collected	Time Collected	Sampling Location	SAC or Suite Code(s)	Legal Seal Number(s)	Intact Y/N	Initials	pH < 2? Y/N	Res. Cl? Y/N	Initials	Matrix Code	Lab Number(s)
016	11-6-14	15:20	Wanhole Sampson St. (NC Painters)	VDA SW	I024323							
017	11-6-14	15:20	Sampson St. (NC Painters)	VDA SW	I024324							
018	11-6-14	15:20	Sampson St. (NC Painters)	Ammunition Nitrogen	I024325							
019	11-6-14	15:20	Sampson St. (NC Painters)	SV-SW	I024326							
020	11-6-14	15:20	Sampson St. (NC Painters)	SV-SW	I024327							
021				VDA Blank								

NUMBER OF INORGANIC CONTAINERS SENT:		NUMBER OF ORGANIC CONTAINERS SENT:		Additional Information:
# of Unpreserv: # of N/P: # of Phenol: # of TOC: # of O&G: # of Fe+2:	# of CN: # of Metals: # of TPH: # of DOC: # of Sulfide: Other:	# Preserved 40 mL VOA: 60 mL VOA: 1 L Amber: Other:	# Unpreserved 40 mL VOA: 60 mL VOA: Encore: 1 L Amber: Other:	

Verified by (lab Initials): _____

Facility ID #:

Alternate Contact:

Sample Collector Name: Dustin Wyatt Phone: 814-573-3607

How Shipped:

☒ commercial courier

☐ Hand Delivered

Chain of Custody	Print Name	Signature	Date	Time
Relinquished by Sample Collector:	Dustin Wygant	Dustin Wygant	11-6-14	
Accepted by:				
Relinquished by:				
Received at the Bureau of Labs:		(lab - initials only)	(lab - date only)	

New Castle Odor Complaints

Summary of aqueous samples collected at Advanced Waste
Services 12/18/2014 by Deborah Morvay, Brian Mummert, and
Deborah Santilo

Please see Chain of Custody for additional details

Sample ID	Date Collected	Time Collected	Sampling Location	Analysis
2204 001	12/18/2014	10:20	Oil/Organics Discharge weir	Volatiles
2204 002	12/18/2014	10:20	Oil/Organics Discharge weir	Semivolatiles
224 003	12/18/2014	10:20	Oil/Organics Discharge weir	pH



Date of Issue: 01/22/2015 04:06:42

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2204 001 Date Collected: 12/18/2014 10:20:00 AM Lab Sample ID: O2014009856 Status: Completed

Name of Sample Collector: Deborah Morvay

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Complaint

Project: NOT INDICATED

Suite: VOASW

Matrix: Water

Stream Condition:

Sample Lab Comment: TICs: 4-methyl-3-pentan-2-one (CAS# 141-79-7), multiple substituted alkanes

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
630206 1,1,1,2-Tetrachloroethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71556 1,1,1-Trichloroethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79345 1,1,2,2-Tetrachloroethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79005 1,1,2-Trichloroethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75343 1,1-Dichloroethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75354 1,1-Dichloroethene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
563586 1,1-Dichloropropene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Land Recycling & W. Management

Status: Completed

Lab Sample ID: 02014009856

Date Collected: 12/18/2014 10:20:00 AM

Sample ID: 2204 001

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
87616 1,2,3-Trichlorobenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96184 1,2,3-Trichloropropane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
120821 1,2,4-Trichlorobenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95636 1,2,4-Trimethylbenzene	22.8 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
96128 1,2-Dibromo-3-chloropropane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106934 1,2-Dibromoethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95501 1,2-Dichlorobenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
107062 1,2-Dichloroethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78875 1,2-Dichloropropane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108678 1,3,5-Trimethylbenzene	6.2 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
541731 1,3-Dichlorobenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
142289 1,3-Dichloropropane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108467 1,4-Dichlorobenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
594207 2,2-Dichloropropane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
591786 2-Hexanone	12.2 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
99876 4-Isopropyltoluene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67641 Acetone	3640 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
71432 Benzene	2.2 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108861 Bromobenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75274 Bromodichloromethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75252 Bromoform	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74839 Bromomethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75150 Carbon Disulfide	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
56235 Carbon Tetrachloride	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108907 Chlorobenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75003 Chloroethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75014 Chloroethene (vinyl chloride)	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
67663 Chloroform	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74873 Chloromethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156592 cis-1,2-Dichloroethane	2.2 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061015 cis-1,3-Dichloropropene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
124481 Dibromochloromethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
74953 Dibromomethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75718 Dichlorodifluoromethane	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
100414 Ethylbenzene	26.9 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
EXTRACTED DATE		12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2204 001 Date Collected: 12/18/2014 10:20:00 AM Lab Sample ID: 02014009856 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
EXTRACTED TIME				
87683 Hexachlorobutadiene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98828 Isopropylbenzene	0.80 UG/L (J)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108383 m/p-Xylene	113 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
78933 MEK	610 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
1634044 Methyl Tert-Butyl Ether	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75092 Methylene Chloride	2.2 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108101 MIBK	21.3 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
91203 Naphthalene	9.8 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
104518 n-Butylbenzene	5.3 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
103651 n-Propylbenzene	2.4 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95498 o-Chlorotoluene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
95476 o-Xylene	41.3 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
106434 p-Chlorotoluene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98566 PCTFB	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
135988 Sec-Butylbenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
100425 Styrene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75650 t-Butyl alcohol	90.4 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
540885 tert-Butyl Acetate	5.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
98066 Tert-Butylbenzene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
127184 Tetrachloroethene	5.6 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
109999 Tetrahydrofuran	117 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108883 Toluene	20.0 UG/L (Q)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
156805 trans-1,2-Dichloroethene	3.6 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
10061026 trans-1,3-Dichloropropene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
79016 Trichloroethene	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
75694 Trichlorofluoromethane	1.4 UG/L	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C
108054 Vinyl Acetate	1.0 UG/L (U)	12/29/2014 02:00 AM	ANDSCHMIDT	EPA 8260C

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

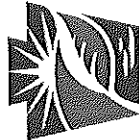
Taru Upadhyay, Technical Director, Bureau of Laboratories

Analytical Report For
Land Recycling & W. Management

Sample ID: 2204 001 Date Collected: 12/18/2014 10:20:00 AM Lab Sample ID: O2014009856 Status: Completed

ORGANICS LABORATORY QUALIFIERS

- U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.
- J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.
- N - Indicates presumptive evidence of a compound.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)
- Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.
- X - Non-target analytes co-elute with compound. Identification unable to be confirmed.



Date of Issue: 02/03/2015 04:11:03
DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467
Contact Phone Number: (717) 346-7200

NELAP - accredited by
NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2204.002 Date Collected: 12/18/2014 10:20:00 AM Lab Sample ID: O2014009867 Status: Completed

Name of Sample Collector: Deborah Morvay

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Complaint

Project: NOT INDICATED

Suite: SV-SW

Matrix: Water

Stream Condition:

Sample Lab Comment: DILUTED BEFORE ANALYSIS Surrogate and matrix spike recoveries could not be evaluated due to high concentrations of non-target analytes present. Tentatively Identified Compounds emailed to collector.

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
95943 1,2,4,5-Tetrachlorobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
120821 1,2,4-Trichlorobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
95501 1,2-Dichlorobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
541731 1,3-Dichlorobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
99650 1,3-Dinitrobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
106467 1,4-Dichlorobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For
Land Recycling & W. Management

Status: Completed

Lab Sample ID: O2014009867

Date Collected: 12/18/2014 10:20:00 AM

Sample ID: 2204 002

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
130154 1,4-Naphthoquinone	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
58902 2,3,4,6-Tetrachlorophenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
95954 2,4,5-Trichlorophenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
88062 2,4,6-Trichlorophenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
120832 2,4-Dichlorophenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
105679 2,4-Dimethylphenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
51285 2,4-Dinitrophenol	1920 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
121142 2,4-Dinitrotoluene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
87650 2,6-Dichlorophenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
606202 2,6-Dinitrotoluene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
53963 2-Acetylaminofluorene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
91587 2-Chloronaphthalene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
95578 2-Chlorophenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
91576 2-Methylnaphthalene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
95487 2-Methylphenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
88744 2-Nitroaniline	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
88755 2-Nitrophenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
109068 2-Picoline (2-Methylpyridine)	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
1319773 3,8,4-Methylphenol	962 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
91941 3,3'-Dichlorobenzidine	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
56495 3-Methylcholanthrene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
99092 3-Nitroaniline	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
534521 4,6-Dinitro-2-methylphenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
92671 4-Aminobiphenyl	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
101553 4-Bromophenyl-phenyl ether	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
59507 4-Chloro-3-methylphenol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
106478 4-Chloroaniline	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
7005723 4-Chlorophenyl-phenyl ether	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
100016 4-Nitroaniline	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				
100027 4-Nitrophenol	4810 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Reporting limit may be biased low.				

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2204 002

Date Collected: 12/18/2014 10:20:00 AM

Lab Sample ID: O2014009867

Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
99558 5-Nitro-o-toluidine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
57976 7,12-Dimethylbenz(a)-anthracene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
The second source standard recovery was low. Results and/or reporting limits may be biased low.				
83329 Acenaphthene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
208968 Acenaphthylene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
98862 Acetophenone	962 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
62533 Aniline	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
120127 Anthracene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
140578 Aramite	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
98555 a-Terpineol	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
56553 Benz(a)anthracene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
50328 Benzo(a)pyrene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
205992 Benzo(b)fluoranthene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
191242 Benzo(g,h,i)perylene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results may be biased low.				
207089 Benzo(k)fluoranthene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
100516 Benzyl alcohol	543 UG/L	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
111911 bis(2-Chloroethoxy)methane	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
111444 bis(2-Chloroethyl)ether	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
108601 bis(2-Chloroisopropyl)ether	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
117817 bis(2-Ethylhexyl)phthalate	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
85687 Butylbenzylphthalate	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
510156 Chlorobenzilate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
218019 Chrysene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
2303164 Diallate (Cis or Trans)	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
53703 Dibenzo(a,h)anthracene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
132649 Dibenzofuran	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
84662 Diethylphthalate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
60515 Dimethoate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
60117 Dimethylaminoazobenzene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
131113 Dimethylphthalate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
84742 Di-n-butylphthalate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
117840 Di-n-octylphthalate	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
88857 Dinoseb	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
122394 Diphenylamine	962 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
298044 Disulfoton	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D

Analytical Report For
Land Recycling & W. Management

Sample ID: 2204 002 Date Collected: 12/18/2014 10:20:00 AM Lab Sample ID: Q2014009867 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
62500 Ethyl methanesulfonate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
56382 Ethyl Parathion	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
EXTRACTED DATE	12222014 Day	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
206440 Fluoranthene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
86737 Fluorene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
118741 Hexachlorobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
87683 Hexachlorobutadiene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
77474 Hexachlorocyclopentadiene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
67721 Hexachloroethane	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
1888717 Hexachloropropene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
193395 Indeno-1,2,3-cd-pyrene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
465736 Isodrin	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
78591 Isophorone	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
120581 Isosafrole	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
66273 Methyl Methanesulfonate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
298000 Methyl Parathion	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
91203 Naphthalene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
98953 Nitrobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
924163 N-Nitrosodibutylamine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
55185 N-Nitrosodiethylamine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
62759 N-Nitrosodimethylamine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
621647 N-Nitrosodipropylamine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
10595956 N-Nitrosomethyl ethylamine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
59892 N-Nitrosomorpholine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
100754 N-nitrosopiperidine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
930552 N-Nitrosopyrrolidine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
126681 O,O,O-Triethylphosphorothioate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
95534 o-Toluidine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
76017 Pentachloroethane	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
608935 Pentachlorobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
82688 Pentachloronitrobenzene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
87865 Pentachlorophenol	962 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
85018 Phenanthrene	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
108952 Phenol	2120 UG/L	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
298022 Phorate	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
23950585 Pronamide	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D

**Analytical Report For
Land Recycling & W. Management**

Sample ID: 2204 002 Date Collected: 12/18/2014 10:20:00 AM Lab Sample ID: O2014009867 Status: Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
129000 Pyrene	240 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
110861 Pyridine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
94597 Saifrole	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
3689245 Sulfotep	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D
297972 Thionazine	481 UG/L (U)	01/28/2015 02:00 AM	CARWALTER	EPA 8270D

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

PADEP Bureau of Labs

TENTATIVELY IDENTIFIED COMPOUNDS

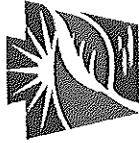
Client Name:
Lab Smp Id: 2014009867
Operator : C Walter
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 28-JAN-2015 12:05

Client SDG: SDGa00512
Client Smp ID: 2204002
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 31

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 79-09-4	Propanoic acid	2.932	6560	NJ
2. 31720-56-6	Oxazolidine, 2,4,4-trimethy	3.799	4900	NJ
3. 123-42-2	2-Pentanone, 4-hydroxy-4-me	4.213	7840	NJ
4. 111-76-2	Ethanol, 2-butoxy-	4.854	1650	NJ
5. 123-32-0	Pyrazine, 2,5-dimethyl-	4.950	4280	NJ
6. 107-41-5	Hexylene glycol	5.138	30800	NJ
7. 126-30-7	Neopentyl glycol	5.249	89100	NJ
8. 20324-32-7	2-Propanol, 1-(2-methoxy-1-	5.798	2420	NJ
9. 106-62-7	1-Propanol, 2-(2-hydroxypro	5.831	2890	NJ
10. 14667-55-1	Pyrazine, trimethyl-	5.879	2490	NJ
11. 142-62-1	Hexanoic acid	5.884	2150	NJ
12. 13429-07-7	2-Propanol, 1-(2-methoxypro	5.942	5140	NJ
13. 110-98-5	2-Propanol, 1,1'-oxybis-	6.082	13300	NJ
14. 149-57-5	Hexanoic acid, 2-ethyl-	7.127	5000	NJ
15. 3302-10-1	Hexanoic acid, 3,5,5-trimet	7.367	13800	NJ
16. 54446-78-5	Ethanol, 1-(2-butoxyethoxy)	7.651	22000	NJ
17. 621-87-4	2-Propanone, 1-phenoxy-	7.936	547	NJ
18. 55956-25-7	2-Propanol, 1-[1-methyl-2-(	8.114	4320	NJ
19. 29911-28-2	2-Propanol, 1-(2-butoxy-1-m	8.167	5160	NJ
20. 770-35-4	1-Phenoxypropan-2-ol	8.253	49700	NJ
21. 20324-33-8	2-Propanol, 1-[2-(2-methoxy	8.513	4640	NJ
22. 101-83-7	Cyclohexanamine, N-cyclohex	9.838	72400	NJ
23. 95-14-7	1H-Benzotriazole	10.175	620	NJ
24. 136-85-6	1H-Benzotriazole, 5-methyl-	10.661	1340	NJ
25. 23778-52-1	2,5,8,11,14-Pentaoxahehexadec	12.062	1170	NJ
26. 2615-15-8	Hexaethylene glycol	12.139	4560	NJ
27. 58-08-2	Caffeine	12.510	3940	NJ
28. 83-67-0	Theobromine	12.650	2520	NJ
29. 23778-52-1	2,5,8,11,14-Pentaoxahehexadec	13.276	1550	NJ
30. 2615-15-8	Hexaethylene glycol	13.358	5960	NJ
31. 7683-64-9	Supraene	16.309	2170	NJ



Date of Issue: 01/07/2015 04:08:04

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by
NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2204 003 Date Collected: 12/18/2014 01:02:00 PM Lab Sample ID: 12014037388 Status: Completed

Name of Sample Collector: Deborah Morway

Date Received:

County: NOT INDICATED

Municipality: NOT INDICATED

State:

Location: NOT INDICATED

Reason: Complaint

Project: NOT INDICATED

Standard Analysis: 100

Matrix: Water

Stream Condition:

Sample Standard Comment: Time Limit For Test Exceeded

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Analyst	Test Method
00403 pH, Lab (Electrometric)	6.4 pH units	12/19/2014 11:48 AM	SSPUHLER	SM 4500H-B
** Comment ** Time Limit For Test Exceeded				

Analytical Report For
Land Recycling & W. Management

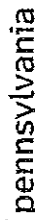
Sample ID: 2204 003 Date Collected: 12/18/2014 01:02:00 PM Lab Sample ID: I2014037388 Status: Completed

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

** Laboratory is accredited by NJ NELAP, parameter not offered by PA LAP

Taru Upadhyay, Technical Director, Bureau of Laboratories



MULTIPLE SAMPLE SUBMISSION SHEET

Collector I.D. #			Reason Code	Cost Center			Program Code		
2	2	0	4	0	8	2	0	0	3

Temp. $\leq 6^{\circ}\text{C}$? ☐ YES ☐ NO

[illegible]

NUMBER OF INORGANIC CONTAINERS SENT: # of Unpreserv: # of N/P: # of Phenol: # of TOC: # of O&G: # of Fe+2: Verified by (lab initials):		NUMBER OF ORGANIC CONTAINERS SENT: # Preserved 40 mL VOA: 60 mL VOA: 1 L Amber: Other: # Unpreserved 40 mL VOA: 60 mL VOA: Encore: 1 L Amber: 2		Additional Information: Please look for CAS numbers 141-79-7 and 19872-52-7 as TICs in the Volatiles and SemiVolatiles. Thank you!
--	--	---	--	---

Facility Name: Advanced Waste Services Facility ID #: 301353 Alternate Contact: _____

Sample Collector Name: Deborah Monvay Phone: 814 332-6135 How Shipped: ☐ commercial courier ☐ Hand Delivered

Chain of Custody	Print Name	Signature	Date	Time
Relinquished by Sample Collector:	Deborah Morway		12/18/14	1405
Accepted by:				
Relinquished by:				
Received at the Bureau of Labs:		(lab - initials only)	(lab - date only)	

Note: Place this Sample Submission Sheet in a sealed plastic bag. Secure the bag to the top of the lid inside the cooler.

From: Orris, Edward
Sent: Monday, March 30, 2015 1:25 PM
To: Carlson, Todd
Cc: Gustafson, Staci; Mummert, Brian; McNabb, Lori
Subject: FW: DEP AQ Request for DOH Health Consult

Final version.

From: Lazor, Nicholas
Sent: Monday, March 30, 2015 1:12 PM
To: Orris, Edward; Bartholomew, Renee
Cc: Carlson, Todd; Mummert, Brian; McNabb, Lori; Epps, Joyce; Trowbridge, Brian; Gustafson, Staci
Subject: RE: DEP AQ Request for DOH Health Consult

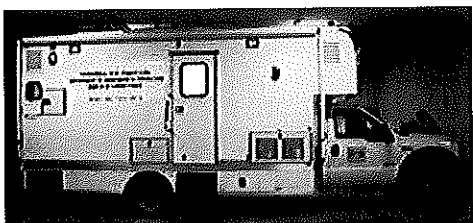
During November 5-6, 2014, DEP's Bureau of Laboratories Mobile Analytical Unit (MAU), at the request of DEP's Northwest Regional Office in Meadville, PA, conducted air analysis using an Open-Path Fourier Transform Infrared (OP-FTIR) ambient air analyzer. The DEP Bureau of Air Quality Monitoring Division (AQM) was asked to interpret the results of this sampling campaign with regard to observed air pollution concentrations. This sampling was initiated by the DEP regional office in response to the presence of a strong, persistent and pervasive "cat urine" odor within the city of New Castle. The odor had occurred twice over a period of a few weeks but apparently was persistent enough that it was believed the MAU could possibly identify the chemical compound causing the odor. The sampling conducted by occurred DEP's Bureau of Laboratories Mobile Analytical Unit (MAU) was conducted during an "odor event".

Upon review of the data, and having little supporting information provided, BAQ was unable to arrive at any definitive conclusion with regard to the nature of the urine/ammonia odor. Given the lack of supporting data and inherent method limitations, it is difficult to support a reliable estimation of trace mean concentrations for a detected pollutant for durations greater than one hour at most. There is insufficient data, in our opinion, to make reliable statistical comparisons to AQM's existing ambient toxics air monitoring network data or to make chronic risk (ELCR) or hazard quotient (HQ) based health conclusions as the sampling period is not representative for a desired sampling duration. However we believe that the higher observed ppb value (3 minute average or max value) can serve as a conservative surrogate value for comparison to a 1-hr health-based acute exposure value. The results would be characterized as a "screening level" investigation.

All criteria pollutants monitored (CO, Ozone, NO₂) were well below NAAQS comparative levels though the TO-16 method is not suitable for direct NAAQS comparison.

Upon review of the DEP MAU analytical report, DOH made the following observations:

- Methyl mercaptan was detected at a concentration of 481 ppb (max value) and 632 ppb (max value) on two occasions, while the odor threshold for methyl mercaptan is 1 ppb. NIOSH recommended airborne exposure limit for methyl mercaptan is 500 ppb, not to be exceeded during any 15 minute work period
- Acetaldehyde was detected at a concentration of 178 ppb (max value), while the odor threshold is 186 ppb. So this value is close to the odor threshold.
- The reporting limit for Hydrogen Sulfide, using the OPFTIR method, is set at a very high level (8672 ppb, 11552 ppb, 5623 ppb, 6812 ppb, and 7856 ppb) when the hydrogen sulfide odor threshold is about 0.5 ppb.
- Therefore, using the DEP mobile analytic unit, which may serve as an initial screening tool, this method fails to detect the chemical compounds that may be responsible for the two odor events ("presence of a strong, persistent and pervasive cat urine odor") because the detections limits are set at a much higher level than their odor threshold levels.
- The odor events could be associated with sulfur compounds (hydrogen sulfide or carbon disulfide) or methyl mercaptan or the aldehydes.
- Based on the available data, DOH agrees with your statement that the results would be characterized as a "screening level" investigation only.
- Given the lack of supporting data and inherent method limitations, DOH was unable to arrive at any definitive conclusion with regard to the nature of the urine/ammonia odor.



COMMONWEALTH OF PENNSYLVANIA
Department of Environmental Protection
Bureau of Laboratories
(717) 346-7200
February 4, 2015

SUBJECT: Analysis Report for November 5-6, 2014

TO: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

FROM: Linda Hreha, Supervisor
Mobile Laboratory Group
Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

The following text outlines results obtained from air analysis performed Analysis Report for November 5-6, 2014 at the following sites in and around New Castle, PA. The instrumentation utilized in the testing was a RAM 2000 Open Path Fourier Transform Infrared Spectrometer (OPFTIR). The analytical method performed was EPA Compendium Method TO-16.

Sampling Locations and Weather Conditions for Analysis

Date	Sample ID	Location	Time (24 hr)	Average Wind Direction	Average Wind Speed (mph)	Weather Conditions
11/6/2014	110614MLG0933(Upwind)	Upwind Latitude: 41.01561 Longitude: -80.36792	09:33	S	0	Rain
11/5/2014	110514MLG1924	Location 1 Latitude: 41.01348 Longitude: -80.36086	19:21-20:45	S	0	Clear
11/5/2014	110514MLG2145	Location 2 Latitude: 41.00440 Longitude: -80.35970	21:45-22:16	S	0	Clear
11/6/2014	110614MLG1135	Location 3 Latitude: 41.00440 Longitude: -80.35970	11:33-12:16	NE	1	Rain
11/6/2014	110614MLG1310	Location 4 Latitude: 41.01027 Longitude: -80.36004	13:11-13:55	SE	1	Rain
11/6/2014	110614MLG1455	Location 5 Latitude: 41.01348 Longitude: -80.36086	14:55-15:26	S	3	Rain
11/6/2014	110614MLG1620	Location 6 Latitude: 40.98012 Longitude: -80.36378	16:19-17:05	S	2	Rain
11/6/2014	110614MLG1807	Location 7 Latitude: 41.00440 Longitude: -80.35970	18:12-18:56	S	0	Rain

Terms:

TWA(Time Weighted Average)- the average during the specified analysis time.

Max- Maximum concentration during the specified analysis time.

Time of Maximum- Time during the analysis time that the maximum occurred.

TWA with manhole open-average specifically during time when manhole cover was open.

Max with Manhole Open- maximum specifically during time when manhole cover was open.

Tentatively Identified Compounds- Compounds identified by on board spectral library as being present.

However, no standards were available to verify the compound was present or the concentration of the compound.

TO-16 Results

Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110614MLG0933

Date of Analysis: 11/06/14

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933

Sampling Location: Cemetery
Latitude: 41.01561
Longitude: - 80.36792

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

*****The results of the analysis provided in this laboratory report relate only to the sample(s) identified in the report. *****
Unless otherwise noted, the results presented on this laboratory report meet all the requirements of the NELAC Institutes (TNI).
*****This test report shall not be reproduced except in full without the written approval of the laboratory*****

Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110514MLG1924

Date of Analysis: 11/05/2014

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933
Cemetery

Sampling Location: Location 1
Latitude: 41.01348
Longitude: -80.36086

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

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TO-16 Results

Analytical Report

Sample: 110514MLG1924

Compound	Analyst	Test Method	Analysis Time	Reporting Limit (ppb)	TWA (ppb)	Maximum (ppb)	Time of Maximum (24 hour)	TWA with Manhole Open (ppb)	Max with Manhole Open (ppb)
1,2,4-Trimethyl benzene	Linda Hreha	TO-16	19:21 to 20:45	271	--	--	--	--	--
2-Methyl Butane	Linda Hreha	TO-16	19:21 to 20:45	63	--	--	--	--	--
2-Methyl Pentane	Linda Hreha	TO-16	19:21 to 20:45	64	--	--	--	--	--
3-Methyl Pentane	Linda Hreha	TO-16	19:21 to 20:45	67	--	--	--	--	--
Acetaldehyde	Linda Hreha	TO-16	19:21 to 20:45	170	--	--	--	--	--
Ammonia	Linda Hreha	TO-16	19:21 to 20:45	7	--	--	--	--	--
Benzene	Linda Hreha	TO-16	19:21 to 20:45	154	--	--	--	--	--
Carbon Disulfide	Linda Hreha	TO-16	19:21 to 20:45	764	--	--	--	--	--
Carbon Monoxide	Linda Hreha	TO-16	19:21 to 20:45	33	422	513	19:49	418	483
Carbonyl Sulfide	Linda Hreha	TO-16	19:21 to 20:45	15	--	--	--	--	--
Chloroform	Linda Hreha	TO-16	19:21 to 20:45	15	--	--	--	--	--
Chloromethane	Linda Hreha	TO-16	19:21 to 20:45	281	--	--	--	--	--
Dimethyl sulfide	Linda Hreha	TO-16	19:21 to 20:45	140	--	--	--	--	--
Ethane	Linda Hreha	TO-16	19:21 to 20:45	154	--	197	20:22	197	--
Ethanol	Linda Hreha	TO-16	19:21 to 20:45	37	--	42	19:46	--	--
Ethylbenzene	Linda Hreha	TO-16	19:21 to 20:45	217	--	--	--	--	--
Ethylene	Linda Hreha	TO-16	19:21 to 20:45	16	--	--	--	--	--
Formaldehyde	Linda Hreha	TO-16	19:21 to 20:45	18	--	--	--	--	--
Hydrogen Chloride	Linda Hreha	TO-16	19:21 to 20:45	21	--	--	--	--	--
Hydrogen Sulfide	Linda Hreha	TO-16	19:21 to 20:45	8672	--	--	--	--	--
iso-Butane	Linda Hreha	TO-16	19:21 to 20:45	48	--	--	--	--	--
Methane	Linda Hreha	TO-16	19:21 to 20:45	79	767	908	20:06	766	808
Methanol	Linda Hreha	TO-16	19:21 to 20:45	12	--	15	19:54	--	--
Methyl mercaptan	Linda Hreha	TO-16	19:21 to 20:45	294	--	481	20:22	--	481
Methyl tert-butyl ether (MTBE)	Linda Hreha	TO-16	19:21 to 20:45	11	--	--	--	--	--
Methylamine	Linda Hreha	TO-16	19:21 to 20:45	142	--	--	--	--	--
m-Xylene	Linda Hreha	TO-16	19:21 to 20:45	70	--	--	--	--	--
Naphthalene	Linda Hreha	TO-16	19:21 to 20:45	21	--	--	--	--	--
n-Butane	Linda Hreha	TO-16	19:21 to 20:45	54	--	--	--	--	--
n-Heptane	Linda Hreha	TO-16	19:21 to 20:45	519	--	--	--	--	--
n-Hexane	Linda Hreha	TO-16	19:21 to 20:45	153	--	--	--	--	--
Nitric Acid	Linda Hreha	TO-16	19:21 to 20:45	16	--	--	--	--	--
Nitric Oxide	Linda Hreha	TO-16	19:21 to 20:45	450	--	--	--	--	--
Nitrogen Dioxide	Linda Hreha	TO-16	19:21 to 20:45	232	--	--	--	--	--
Nitrous Acid	Linda Hreha	TO-16	19:21 to 20:45	5	--	--	--	--	--
Nitrous Oxide	Linda Hreha	TO-16	19:21 to 20:45	36	123	158	20:06	127	154
n-Octane	Linda Hreha	TO-16	19:21 to 20:45	394	--	--	--	--	--
n-Pentane	Linda Hreha	TO-16	19:21 to 20:45	87	--	--	--	--	--
o-Xylene	Linda Hreha	TO-16	19:21 to 20:45	228	--	--	--	--	--
Ozone	Linda Hreha	TO-16	19:21 to 20:45	24	--	--	--	--	--
Propane	Linda Hreha	TO-16	19:21 to 20:45	88	--	--	--	--	--
p-Xylene	Linda Hreha	TO-16	19:21 to 20:45	154	--	--	--	--	--
Styrene	Linda Hreha	TO-16	19:21 to 20:45	24	--	--	--	--	--
Sulfur Dioxide	Linda Hreha	TO-16	19:21 to 20:45	134	--	--	--	--	--
Toluene	Linda Hreha	TO-16	19:21 to 20:45	336	--	--	--	--	--
Triethylamine	Linda Hreha	TO-16	19:21 to 20:45	19	--	--	--	--	--

Tentatively Identified: Isobutanol, m-dichlorobenzene, naphthalene, n,n-dimethylformamide, 2-nitropropane, 1,1,1-Trichloroethane, and trichlorofluoromethane.

-- indicates concentration less than reporting limit

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Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110514MLG2145

Date of Analysis: 11/05/2014

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933
Cemetery

Sampling Location: Location 2
Latitude: 41.00440
Longitude: -80.35970

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

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TO-16 Results

Analytical Report

Sample: 110514MLG2145

Compound	Analyst	Test Method	Analysis Time	Reporting Limit (ppb)	TWA (ppb)	Maximum (ppb)	Time of Maximum (24 hour)	TWA with Manhole Open (ppb)	Max with Manhole Open (ppb)
1,2,4-Trimethyl benzene	Linda Hreha	TO-16	21:45 to 22:16	410	--	--	--	--	--
2-Methyl Butane	Linda Hreha	TO-16	21:45 to 22:16	90	--	--	--	--	--
2-Methyl Pentane	Linda Hreha	TO-16	21:45 to 22:16	87	--	--	--	--	--
3-Methyl Pentane	Linda Hreha	TO-16	21:45 to 22:16	86	--	--	--	--	--
Acetaldehyde	Linda Hreha	TO-16	21:45 to 22:16	263	--	--	--	--	--
Ammonia	Linda Hreha	TO-16	21:45 to 22:16	10	--	12	22:00	--	--
Benzene	Linda Hreha	TO-16	21:45 to 22:16	287	--	--	--	--	--
Carbon Disulfide	Linda Hreha	TO-16	21:45 to 22:16	270	--	--	--	--	--
Carbon Monoxide	Linda Hreha	TO-16	21:45 to 22:16	40	523	895	22:13	577	895
Carbonyl Sulfide	Linda Hreha	TO-16	21:45 to 22:16	16	--	--	--	--	--
Chloroform	Linda Hreha	TO-16	21:45 to 22:16	23	--	--	--	--	--
Chloromethane	Linda Hreha	TO-16	21:45 to 22:16	488	--	--	--	--	--
Dimethyl sulfide	Linda Hreha	TO-16	21:45 to 22:16	239	--	--	--	--	--
Ethane	Linda Hreha	TO-16	21:45 to 22:16	217	--	--	--	--	--
Ethanol	Linda Hreha	TO-16	21:45 to 22:16	61	--	--	--	--	--
Ethylbenzene	Linda Hreha	TO-16	21:45 to 22:16	303	--	--	--	--	--
Ethylene	Linda Hreha	TO-16	21:45 to 22:16	25	--	--	--	--	--
Formaldehyde	Linda Hreha	TO-16	21:45 to 22:16	29	--	--	--	--	--
Hydrogen Chloride	Linda Hreha	TO-16	21:45 to 22:16	41	--	--	--	--	--
Hydrogen Sulfide	Linda Hreha	TO-16	21:45 to 22:16	11552	--	--	--	--	--
iso-Butane	Linda Hreha	TO-16	21:45 to 22:16	66	--	--	--	--	--
Methane	Linda Hreha	TO-16	21:45 to 22:16	127	--	--	--	--	--
Methanol	Linda Hreha	TO-16	21:45 to 22:16	21	--	--	--	--	--
Methyl mercaptan	Linda Hreha	TO-16	21:45 to 22:16	476	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	Linda Hreha	TO-16	21:45 to 22:16	21	--	--	--	--	--
Methylamine	Linda Hreha	TO-16	21:45 to 22:16	223	--	--	--	--	--
m-Xylene	Linda Hreha	TO-16	21:45 to 22:16	105	--	--	--	--	--
Naphthalene	Linda Hreha	TO-16	21:45 to 22:16	37	--	--	--	--	--
n-Butane	Linda Hreha	TO-16	21:45 to 22:16	77	--	--	--	--	--
n-Heptane	Linda Hreha	TO-16	21:45 to 22:16	699	--	--	--	--	--
n-Hexane	Linda Hreha	TO-16	21:45 to 22:16	221	--	--	--	--	--
Nitric Acid	Linda Hreha	TO-16	21:45 to 22:16	28	--	--	--	--	--
Nitric Oxide	Linda Hreha	TO-16	21:45 to 22:16	1067	--	--	--	--	--
Nitrogen Dioxide	Linda Hreha	TO-16	21:45 to 22:16	317	--	--	--	--	--
Nitrous Acid	Linda Hreha	TO-16	21:45 to 22:16	8	--	--	--	--	--
Nitrous Oxide	Linda Hreha	TO-16	21:45 to 22:16	22	--	--	--	--	--
n-Octane	Linda Hreha	TO-16	21:45 to 22:16	537	--	--	--	--	--
n-Pentane	Linda Hreha	TO-16	21:45 to 22:16	135	--	--	--	--	--
o-Xylene	Linda Hreha	TO-16	21:45 to 22:16	184	--	--	--	--	--
Ozone	Linda Hreha	TO-16	21:45 to 22:16	43	--	--	--	--	--
Propane	Linda Hreha	TO-16	21:45 to 22:16	124	--	--	--	--	--
p-Xylene	Linda Hreha	TO-16	21:45 to 22:16	215	--	--	--	--	--
Styrene	Linda Hreha	TO-16	21:45 to 22:16	47	--	--	--	--	--
Sulfur Dioxide	Linda Hreha	TO-16	21:45 to 22:16	235	--	--	--	--	--
Toluene	Linda Hreha	TO-16	21:45 to 22:16	483	--	--	--	--	--
Triethylamine	Linda Hreha	TO-16	21:45 to 22:16	30	--	--	--	--	--

Tentatively Identified compound : Tetrahydrofuran

"--" indicates concentration less than reporting limit

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TO-16 Results

Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110614MLG1135

Date of Analysis: 11/06/2014

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933
Cemetery

Sampling Location: Location 3
Latitude: 41.00440
Longitude: -80.35970

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

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TO-16 Results

Analytical Report

Sample: 110614MLG1135

Compound	Analyst	Test Method	Analysis Time	Reporting Limit (ppb)	TWA (ppb)	Maximum Maximum (ppb)	Time Maximum (24 hour)	TWA with Manhole Open	Max with Manhole Open
1,2,4-Trimethyl benzene	Linda Hreha	TO-16	1133 to 1215	194	--	--	--	--	--
2-Methyl Butane	Linda Hreha	TO-16	1133 to 1215	19	--	--	--	--	--
2-Methyl Pentane	Linda Hreha	TO-16	1133 to 1215	37	--	--	--	--	--
3-Methyl Pentane	Linda Hreha	TO-16	1133 to 1215	24	--	--	--	--	--
Acetaldehyde	Linda Hreha	TO-16	1133 to 1215	94	--	--	--	--	--
Ammonia	Linda Hreha	TO-16	1133 to 1215	5	--	6	12:15	--	6
Benzene	Linda Hreha	TO-16	1133 to 1215	167	--	--	--	--	--
Carbon Disulfide	Linda Hreha	TO-16	1133 to 1215	96	--	--	--	--	--
Carbon Monoxide	Linda Hreha	TO-16	1133 to 1215	16	22	75	11:52	23	75
Carbonyl Sulfide	Linda Hreha	TO-16	1133 to 1215	4	--	--	--	--	--
Chloroform	Linda Hreha	TO-16	1133 to 1215	5	--	--	--	--	--
Chloromethane	Linda Hreha	TO-16	1133 to 1215	227	--	--	--	--	--
Dimethyl sulfide	Linda Hreha	TO-16	1133 to 1215	70	--	--	--	--	--
Ethane	Linda Hreha	TO-16	1133 to 1215	73	--	--	--	--	--
Ethanol	Linda Hreha	TO-16	1133 to 1215	20	--	--	--	--	--
Ethylbenzene	Linda Hreha	TO-16	1133 to 1215	73	--	--	--	--	--
Ethylene	Linda Hreha	TO-16	1133 to 1215	11	--	--	--	--	--
Formaldehyde	Linda Hreha	TO-16	1133 to 1215	16	--	--	--	--	--
Hydrogen Chloride	Linda Hreha	TO-16	1133 to 1215	24	--	--	--	--	--
Hydrogen Sulfide	Linda Hreha	TO-16	1133 to 1215	5623	--	--	--	--	--
Iso-Butane	Linda Hreha	TO-16	1133 to 1215	20	--	--	--	--	--
Methane	Linda Hreha	TO-16	1133 to 1215	54	--	--	--	--	--
Methanol	Linda Hreha	TO-16	1133 to 1215	12	--	--	--	--	--
Methyl mercaptan	Linda Hreha	TO-16	1133 to 1215	142	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	Linda Hreha	TO-16	1133 to 1215	12	--	--	--	--	--
Methylamine	Linda Hreha	TO-16	1133 to 1215	117	--	--	--	--	--
m-Xylene	Linda Hreha	TO-16	1133 to 1215	52	--	--	--	--	--
Naphthalene	Linda Hreha	TO-16	1133 to 1215	17	--	--	--	--	--
n-Butane	Linda Hreha	TO-16	1133 to 1215	25	--	--	--	--	--
n-Heptane	Linda Hreha	TO-16	1133 to 1215	182	--	--	--	--	--
n-Hexane	Linda Hreha	TO-16	1133 to 1215	47	--	--	--	--	--
Nitric Acid	Linda Hreha	TO-16	1133 to 1215	16	--	--	--	--	--
Nitric Oxide	Linda Hreha	TO-16	1133 to 1215	281	--	--	--	--	--
Nitrogen Dioxide	Linda Hreha	TO-16	1133 to 1215	86	--	--	--	--	--
Nitrous Acid	Linda Hreha	TO-16	1133 to 1215	5	--	--	--	--	--
Nitrous Oxide	Linda Hreha	TO-16	1133 to 1215	8	--	--	--	--	--
n-Octane	Linda Hreha	TO-16	1133 to 1215	157	--	--	--	--	--
n-Pentane	Linda Hreha	TO-16	1133 to 1215	28	--	--	--	--	--
o-Xylene	Linda Hreha	TO-16	1133 to 1215	34	--	--	--	--	--
Ozone	Linda Hreha	TO-16	1133 to 1215	25	--	--	--	--	--
Propane	Linda Hreha	TO-16	1133 to 1215	27	--	--	--	--	--
p-Xylene	Linda Hreha	TO-16	1133 to 1215	88	--	--	--	--	--
Styrene	Linda Hreha	TO-16	1133 to 1215	28	--	--	--	--	--
Sulfur Dioxide	Linda Hreha	TO-16	1133 to 1215	108	--	--	--	--	--
Toluene	Linda Hreha	TO-16	1133 to 1215	94	--	--	--	--	--
Triethylamine	Linda Hreha	TO-16	1133 to 1215	14	--	--	--	--	--

Tentatively Identified compounds: Acetyl Chloride, m-cresol, propionic acid, tetrahydrofuran

"--" indicates concentration less than reporting limit

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Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110614MLG1310

Date of Analysis: 11/06/2014

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933
Cemetery

Sampling Location: Location 4
Latitude: 41.01027
Longitude: -80.36004

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

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Analytical Report

Sample: 110614MLG1310

Compound	Analyst	Test Method	Analysis Time	Reporting Limit (ppb)	TWA (ppb)	Maximum (ppb)	Time of Maximum (24 hour)	TWA with Manhole Open (ppb)	Max with Manhole Open (ppb)
1,2,4-Trimethyl benzene	Diane Cline	TO-16	13:11 to 13:55	410	--	--	--	--	--
2-Methyl Butane	Diane Cline	TO-16	13:11 to 13:55	90	--	--	--	--	--
2-Methyl Pentane	Diane Cline	TO-16	13:11 to 13:55	87	--	--	--	--	--
3-Methyl Pentane	Diane Cline	TO-16	13:11 to 13:55	86	--	--	--	--	--
Acetaldehyde	Diane Cline	TO-16	13:11 to 13:55	263	--	--	--	--	--
Ammonia	Diane Cline	TO-16	13:11 to 13:55	10	--	--	--	--	--
Benzene	Diane Cline	TO-16	13:11 to 13:55	287	--	--	--	--	--
Carbon Disulfide	Diane Cline	TO-16	13:11 to 13:55	270	--	--	--	--	--
Carbon Monoxide	Diane Cline	TO-16	13:11 to 13:55	40	--	136	13:40	--	--
Carbonyl Sulfide	Diane Cline	TO-16	13:11 to 13:55	16	--	--	--	--	--
Chloroform	Diane Cline	TO-16	13:11 to 13:55	23	--	--	--	--	--
Chloromethane	Diane Cline	TO-16	13:11 to 13:55	488	--	--	--	--	--
Dimethyl sulfide	Diane Cline	TO-16	13:11 to 13:55	239	--	--	--	--	--
Ethane	Diane Cline	TO-16	13:11 to 13:55	217	--	--	--	--	--
Ethanol	Diane Cline	TO-16	13:11 to 13:55	61	--	--	--	--	--
Ethylbenzene	Diane Cline	TO-16	13:11 to 13:55	303	--	--	--	--	--
Ethylene	Diane Cline	TO-16	13:11 to 13:55	25	--	--	--	--	--
Formaldehyde	Diane Cline	TO-16	13:11 to 13:55	29	--	--	--	--	--
Hydrogen Chloride	Diane Cline	TO-16	13:11 to 13:55	41	--	--	--	--	--
Hydrogen Sulfide	Diane Cline	TO-16	13:11 to 13:55	11552	--	--	--	--	--
iso-Butane	Diane Cline	TO-16	13:11 to 13:55	66	--	--	--	--	--
Methane	Diane Cline	TO-16	13:11 to 13:55	127	--	--	--	--	--
Methanol	Diane Cline	TO-16	13:11 to 13:55	21	--	--	--	--	--
Methyl mercaptan	Diane Cline	TO-16	13:11 to 13:55	476	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	Diane Cline	TO-16	13:11 to 13:55	21	--	--	--	--	--
Methylamine	Diane Cline	TO-16	13:11 to 13:55	223	--	--	--	--	--
m-Xylene	Diane Cline	TO-16	13:11 to 13:55	105	--	--	--	--	--
Naphthalene	Diane Cline	TO-16	13:11 to 13:55	37	--	--	--	--	--
n-Butane	Diane Cline	TO-16	13:11 to 13:55	77	--	--	--	--	--
n-Heptane	Diane Cline	TO-16	13:11 to 13:55	699	--	--	--	--	--
n-Hexane	Diane Cline	TO-16	13:11 to 13:55	221	--	--	--	--	--
Nitric Acid	Diane Cline	TO-16	13:11 to 13:55	28	--	--	--	--	--
Nitric Oxide	Diane Cline	TO-16	13:11 to 13:55	1067	--	--	--	--	--
Nitrogen Dioxide	Diane Cline	TO-16	13:11 to 13:55	317	--	--	--	--	--
Nitrous Acid	Diane Cline	TO-16	13:11 to 13:55	8	--	--	--	--	--
Nitrous Oxide	Diane Cline	TO-16	13:11 to 13:55	22	--	--	--	--	--
n-Octane	Diane Cline	TO-16	13:11 to 13:55	537	--	933	13:40	--	--
n-Pentane	Diane Cline	TO-16	13:11 to 13:55	135	--	--	--	--	--
o-Xylene	Diane Cline	TO-16	13:11 to 13:55	184	--	--	--	--	--
Ozone	Diane Cline	TO-16	13:11 to 13:55	43	--	--	--	--	--
Propane	Diane Cline	TO-16	13:11 to 13:55	124	--	--	--	--	--
p-Xylene	Diane Cline	TO-16	13:11 to 13:55	215	--	--	--	--	--
Styrene	Diane Cline	TO-16	13:11 to 13:55	47	--	--	--	--	--
Sulfur Dioxide	Diane Cline	TO-16	13:11 to 13:55	235	--	--	--	--	--
Toluene	Diane Cline	TO-16	13:11 to 13:55	483	--	--	--	--	--
Triethylamine	Diane Cline	TO-16	13:11 to 13:55	30	--	--	--	--	--

Tentatively identified compounds: None

"--" indicates concentration less than reporting limit

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Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110614MLG1455

Date of Analysis: 11/06/2014

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933
Cemetery

Sampling Location: Location 5
Latitude: 41.01348
Longitude: -80.36086

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

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TO-16 Results

Analytical Report

Sample: 110614MLG1455

Compound	Analyst	Test Method	Analysis Time	Reporting Limit (ppb)	TWA (ppb)	Maximum (ppb)	Time of Maximum (24 hour)	TWA with Manhole Open (ppb)	Max with Manhole Open (ppb)
1,2,4-Trimethyl benzene	Linda Hreha	TO-16	14:55 to 15:26	311	--	--	--	--	--
2-Methyl Butane	Linda Hreha	TO-16	14:55 to 15:26	79	--	--	--	--	--
2-Methyl Pentane	Linda Hreha	TO-16	14:55 to 15:26	82	--	--	--	--	--
3-Methyl Pentane	Linda Hreha	TO-16	14:55 to 15:26	88	--	--	--	--	--
Acetaldehyde	Linda Hreha	TO-16	14:55 to 15:26	285	--	--	--	--	--
Ammonia	Linda Hreha	TO-16	14:55 to 15:26	10	--	--	--	--	--
Benzene	Linda Hreha	TO-16	14:55 to 15:26	183	--	--	--	--	--
Carbon Disulfide	Linda Hreha	TO-16	14:55 to 15:26	401	--	--	--	--	--
Carbon Monoxide	Linda Hreha	TO-16	14:55 to 15:26	34	125	198	15:18	144	198
Carbonyl Sulfide	Linda Hreha	TO-16	14:55 to 15:26	18	--	--	--	--	--
Chloroform	Linda Hreha	TO-16	14:55 to 15:26	31	--	--	--	--	--
Chloromethane	Linda Hreha	TO-16	14:55 to 15:26	349	--	--	--	--	--
Dimethyl sulfide	Linda Hreha	TO-16	14:55 to 15:26	166	--	--	--	--	--
Ethane	Linda Hreha	TO-16	14:55 to 15:26	201	--	--	--	--	--
Ethanol	Linda Hreha	TO-16	14:55 to 15:26	67	--	--	--	--	--
Ethylbenzene	Linda Hreha	TO-16	14:55 to 15:26	265	--	--	--	--	--
Ethylene	Linda Hreha	TO-16	14:55 to 15:26	31	--	--	--	--	--
Formaldehyde	Linda Hreha	TO-16	14:55 to 15:26	21	--	--	--	--	--
Hydrogen Chloride	Linda Hreha	TO-16	14:55 to 15:26	27	--	--	--	--	--
Hydrogen Sulfide	Linda Hreha	TO-16	14:55 to 15:26	11552	--	--	--	--	--
iso-Butane	Linda Hreha	TO-16	14:55 to 15:26	62	--	--	--	--	--
Methane	Linda Hreha	TO-16	14:55 to 15:26	134	900	948	15:11	901	948
Methanol	Linda Hreha	TO-16	14:55 to 15:26	15	--	--	--	--	--
Methyl mercaptan	Linda Hreha	TO-16	14:55 to 15:26	368	--	632	15:27	--	--
Methyl tert-butyl ether (MTBE)	Linda Hreha	TO-16	14:55 to 15:26	15	--	--	--	--	--
Methylamine	Linda Hreha	TO-16	14:55 to 15:26	161	--	--	--	--	--
m-Xylene	Linda Hreha	TO-16	14:55 to 15:26	100	--	--	--	--	--
Naphthalene	Linda Hreha	TO-16	14:55 to 15:26	32	--	--	--	--	--
n-Butane	Linda Hreha	TO-16	14:55 to 15:26	69	--	--	--	--	--
n-Heptane	Linda Hreha	TO-16	14:55 to 15:26	689	--	747	15:15	--	747
n-Hexane	Linda Hreha	TO-16	14:55 to 15:26	191	--	--	--	--	--
Nitric Acid	Linda Hreha	TO-16	14:55 to 15:26	21	--	--	--	--	--
Nitric Oxide	Linda Hreha	TO-16	14:55 to 15:26	1067	--	--	--	--	--
Nitrogen Dioxide	Linda Hreha	TO-16	14:55 to 15:26	291	--	--	--	--	--
Nitrous Acid	Linda Hreha	TO-16	14:55 to 15:26	6	--	--	--	--	--
Nitrous Oxide	Linda Hreha	TO-16	14:55 to 15:26	72	94	182	15:23	89	182
n-Octane	Linda Hreha	TO-16	14:55 to 15:26	502	--	--	--	--	--
n-Pentane	Linda Hreha	TO-16	14:55 to 15:26	113	--	--	--	--	--
o-Xylene	Linda Hreha	TO-16	14:55 to 15:26	226	--	--	--	--	--
Ozone	Linda Hreha	TO-16	14:55 to 15:26	22	34	48	15:04	--	--
Propane	Linda Hreha	TO-16	14:55 to 15:26	113	--	--	--	--	--
p-Xylene	Linda Hreha	TO-16	14:55 to 15:26	195	--	--	--	--	--
Styrene	Linda Hreha	TO-16	14:55 to 15:26	31	--	--	--	--	--
Sulfur Dioxide	Linda Hreha	TO-16	14:55 to 15:26	192	--	--	--	--	--
Toluene	Linda Hreha	TO-16	14:55 to 15:26	363	--	--	--	--	--
Triethylamine	Linda Hreha	TO-16	14:55 to 15:26	32	--	--	--	--	--

Tentatively identified compounds: 1,2-dichloroethane and isocyanic acid

"--" indicates concentration less than reporting limit

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Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110614MLG1620
Date of Analysis: 11/06/2014

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933
Cemetery

Sampling Location: Location 6
Latitude: 40.98012
Longitude: -80.36378

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

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Analytical Report

Sample: I10614MLG1620

Compound	Analyst	Test Method	Analysis Time	Reporting Limit (ppb)	TWA (ppb)	Maximum (ppb)	Time of Maximum (24 hour)	TWA with Manhole Open (ppb)	Max with Manhole Open (ppb)
1,2,4-Trimethyl benzene	Linda Hreha	TO-16	16:19 to 17:05	203	--	--	--	--	--
2-Methyl Butane	Linda Hreha	TO-16	16:19 to 17:05	24	--	--	--	--	--
2-Methyl Pentane	Linda Hreha	TO-16	16:19 to 17:05	43	--	--	--	--	--
3-Methyl Pentane	Linda Hreha	TO-16	16:19 to 17:05	30	--	--	--	--	--
Acetaldehyde	Linda Hreha	TO-16	16:19 to 17:05	97	--	178	16:28	--	--
Ammonia	Linda Hreha	TO-16	16:19 to 17:05	5	--	--	--	--	--
Benzene	Linda Hreha	TO-16	16:19 to 17:05	185	--	--	--	--	--
Carbon Disulfide	Linda Hreha	TO-16	16:19 to 17:05	144	--	--	--	--	--
Carbon Monoxide	Linda Hreha	TO-16	16:19 to 17:05	15	57	308	16:30	--	--
Carbonyl Sulfide	Linda Hreha	TO-16	16:19 to 17:05	5	--	--	--	--	--
Chloroform	Linda Hreha	TO-16	16:19 to 17:05	4	--	--	--	--	--
Chloromethane	Linda Hreha	TO-16	16:19 to 17:05	227	--	--	--	--	--
Dimethyl sulfide	Linda Hreha	TO-16	16:19 to 17:05	86	--	--	--	--	--
Ethane	Linda Hreha	TO-16	16:19 to 17:05	92	--	--	--	--	--
Ethanol	Linda Hreha	TO-16	16:19 to 17:05	21	--	--	--	--	--
Ethylbenzene	Linda Hreha	TO-16	16:19 to 17:05	86	--	--	--	--	--
Ethylene	Linda Hreha	TO-16	16:19 to 17:05	12	--	--	--	--	--
Formaldehyde	Linda Hreha	TO-16	16:19 to 17:05	17	--	--	--	--	--
Hydrogen Chloride	Linda Hreha	TO-16	16:19 to 17:05	26	--	--	--	--	--
Hydrogen Sulfide	Linda Hreha	TO-16	16:19 to 17:05	6812	--	--	--	--	--
iso-Butane	Linda Hreha	TO-16	16:19 to 17:05	24	--	--	--	--	--
Methane	Linda Hreha	TO-16	16:19 to 17:05	61	--	--	--	--	--
Methanol	Linda Hreha	TO-16	16:19 to 17:05	13	--	--	--	--	--
Methyl mercaptan	Linda Hreha	TO-16	16:19 to 17:05	165	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	Linda Hreha	TO-16	16:19 to 17:05	13	--	15	16:28	--	--
Methylamine	Linda Hreha	TO-16	16:19 to 17:05	125	--	--	--	--	--
m-Xylene	Linda Hreha	TO-16	16:19 to 17:05	54	--	--	--	--	--
Naphthalene	Linda Hreha	TO-16	16:19 to 17:05	18	--	--	--	--	--
n-Butane	Linda Hreha	TO-16	16:19 to 17:05	32	--	--	--	--	--
n-Heptane	Linda Hreha	TO-16	16:19 to 17:05	226	--	--	--	--	--
n-Hexane	Linda Hreha	TO-16	16:19 to 17:05	58	--	--	--	--	--
Nitric Acid	Linda Hreha	TO-16	16:19 to 17:05	17	--	--	--	--	--
Nitric Oxide	Linda Hreha	TO-16	16:19 to 17:05	348	--	--	--	--	--
Nitrogen Dioxide	Linda Hreha	TO-16	16:19 to 17:05	100	--	--	--	--	--
Nitrous Acid	Linda Hreha	TO-16	16:19 to 17:05	5	--	--	--	--	--
Nitrous Oxide	Linda Hreha	TO-16	16:19 to 17:05	9	--	--	--	--	--
n-Octane	Linda Hreha	TO-16	16:19 to 17:05	186	--	--	--	--	--
n-Pentane	Linda Hreha	TO-16	16:19 to 17:05	36	--	--	--	--	--
o-Xylene	Linda Hreha	TO-16	16:19 to 17:05	34	--	--	--	--	--
Ozone	Linda Hreha	TO-16	16:19 to 17:05	28	--	--	--	--	--
Propane	Linda Hreha	TO-16	16:19 to 17:05	33	--	--	--	--	--
p-Xylene	Linda Hreha	TO-16	16:19 to 17:05	92	--	--	--	--	--
Styrene	Linda Hreha	TO-16	16:19 to 17:05	28	--	--	--	--	--
Sulfur Dioxide	Linda Hreha	TO-16	16:19 to 17:05	120	--	--	--	--	--
Toluene	Linda Hreha	TO-16	16:19 to 17:05	88	--	93	16:39	--	--
Triethylamine	Linda Hreha	TO-16	16:19 to 17:05	15	--	--	--	--	--

Tentatively identified compounds: Acetyl chloride, tetrahydrofuran, and isocyanic acid.

"--" indicates concentration less than reporting limit

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Analytical Report

DEP Bureau of Laboratories
P.O. Box 1467
Harrisburg, PA 17105

Sample ID: 110614MLG1807

Date of Analysis: 11/06/2014

Locations for sampling as determined by DEP North West Regional Office Staff

Upwind Spectrum*: 110614MLG0933
Cemetery

Sampling Location: Location 7
Latitude: 41.00440
Longitude: -80.35970

Client: Todd Carlson, Waste Management Program Manager
Northwest Regional Office
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

Method: EPA Compendium Method TO-16 Atmospheric Gases

Sample medium: Atmospheric Gas

- * The upwind spectrum obtained is representative of ambient atmospheric conditions near the analysis site but upwind of the specific analysis site. This upwind spectrum does not represent a zero concentration for constituents, only a representation of constituents in the air upwind of analysis site. All subsequent sampling was compared to this upwind spectrum. The format in which this upwind spectrum is obtained does not allow for concentration derivation. DEP Regional Staff directed the Mobile Laboratory Group Staff as to where this upwind spectrum was to be obtained.

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Analytical Report

Sample: 111614MLG1807

Compound	Analyst	Test Method	Analysis Time	Reporting Limit (ppb)	TWA (ppb)	Maximum (ppb)	Time of Maximum (24 hour)	TWA with Manhole Open (ppb)	Max with Manhole Open (ppb)
1,2,4-Trimethyl benzene	Linda Hreha	TO-16	18:12 to 18:56	243	--	--	--	--	--
2-Methyl Butane	Linda Hreha	TO-16	18:12 to 18:56	36	--	--	--	--	--
2-Methyl Pentane	Linda Hreha	TO-16	18:12 to 18:56	51	--	--	--	--	--
3-Methyl Pentane	Linda Hreha	TO-16	18:12 to 18:56	41	--	--	--	--	--
Acetaldehyde	Linda Hreha	TO-16	18:12 to 18:56	136	--	--	--	--	--
Ammonia	Linda Hreha	TO-16	18:12 to 18:56	6	--	12	18:22	--	--
Benzene	Linda Hreha	TO-16	18:12 to 18:56	205	--	--	--	--	--
Carbon Disulfide	Linda Hreha	TO-16	18:12 to 18:56	190	--	--	--	--	--
Carbon Monoxide	Linda Hreha	TO-16	18:12 to 18:56	20	76	445	18:53	84	--
Carbonyl Sulfide	Linda Hreha	TO-16	18:12 to 18:56	6	--	--	--	--	--
Chloroform	Linda Hreha	TO-16	18:12 to 18:56	8	--	--	--	--	--
Chloromethane	Linda Hreha	TO-16	18:12 to 18:56	292	--	--	--	--	--
Dimethyl sulfide	Linda Hreha	TO-16	18:12 to 18:56	129	--	--	--	--	--
Ethane	Linda Hreha	TO-16	18:12 to 18:56	114	--	--	--	--	--
Ethanol	Linda Hreha	TO-16	18:12 to 18:56	28	--	--	--	--	--
Ethylbenzene	Linda Hreha	TO-16	18:12 to 18:56	130	--	--	--	--	--
Ethylene	Linda Hreha	TO-16	18:12 to 18:56	14	--	--	--	--	--
Formaldehyde	Linda Hreha	TO-16	18:12 to 18:56	20	--	--	--	--	--
Hydrogen Chloride	Linda Hreha	TO-16	18:12 to 18:56	30	--	--	--	--	--
Hydrogen Sulfide	Linda Hreha	TO-16	18:12 to 18:56	7856	--	--	--	--	--
iso-Butane	Linda Hreha	TO-16	18:12 to 18:56	32	--	--	--	--	--
Methane	Linda Hreha	TO-16	18:12 to 18:56	71	--	--	--	--	--
Methanol	Linda Hreha	TO-16	18:12 to 18:56	15	--	--	--	--	--
Methyl mercaptan	Linda Hreha	TO-16	18:12 to 18:56	243	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	Linda Hreha	TO-16	18:12 to 18:56	15	--	21	18:54	--	--
Methylamine	Linda Hreha	TO-16	18:12 to 18:56	155	--	--	--	--	--
m-Xylene	Linda Hreha	TO-16	18:12 to 18:56	84	--	--	--	--	--
Naphthalene	Linda Hreha	TO-16	18:12 to 18:56	21	--	--	--	--	--
n-Butane	Linda Hreha	TO-16	18:12 to 18:56	40	--	--	--	--	--
n-Heptane	Linda Hreha	TO-16	18:12 to 18:56	321	--	--	--	--	--
n-Hexane	Linda Hreha	TO-16	18:12 to 18:56	88	--	--	--	--	--
Nitric Acid	Linda Hreha	TO-16	18:12 to 18:56	19	--	--	--	--	--
Nitric Oxide	Linda Hreha	TO-16	18:12 to 18:56	394	--	--	--	--	--
Nitrogen Dioxide	Linda Hreha	TO-16	18:12 to 18:56	144	--	--	--	--	--
Nitrous Acid	Linda Hreha	TO-16	18:12 to 18:56	6	--	--	--	--	--
Nitrous Oxide	Linda Hreha	TO-16	18:12 to 18:56	12	--	--	--	--	--
n-Octane	Linda Hreha	TO-16	18:12 to 18:56	258	--	--	--	--	--
n-Pentane	Linda Hreha	TO-16	18:12 to 18:56	52	--	--	--	--	--
o-Xylene	Linda Hreha	TO-16	18:12 to 18:56	57	--	--	--	--	--
Ozone	Linda Hreha	TO-16	18:12 to 18:56	31	--	--	--	--	--
Propane	Linda Hreha	TO-16	18:12 to 18:56	50	--	--	--	--	--
p-Xylene	Linda Hreha	TO-16	18:12 to 18:56	112	--	--	--	--	--
Styrene	Linda Hreha	TO-16	18:12 to 18:56	33	--	--	--	--	--
Sulfur Dioxide	Linda Hreha	TO-16	18:12 to 18:56	157	--	--	--	--	--
Toluene	Linda Hreha	TO-16	18:12 to 18:56	159	--	--	--	--	--
Triethylamine	Linda Hreha	TO-16	18:12 to 18:56	19	--	--	--	--	--

Tentatively identified compounds:
 Acetyl chloride, carbon fluoride, chlorodifluoromethane, 1,3 dichloropropane,
 propylene imine, tetrahydrofuran, and 1,1,1-trichloroethane

-- indicates concentration less than reporting limit

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