

March 1, 2018

New York State Department of Environmental Conservation Division of Environmental Remediation, Remedial Bureau A Brian Jankauskas, P.E. 625 Broadway 12th Floor Albany, NY 12233-7015

Subject: 2017 Operations & Maintenance Report

Ciba-Geigy Facility EPA ID NYD002069748 / NYSDEC Site No.: 557011

Dear Mr. Jankauskas:

This *Operations and Maintenance* (O&M) report summarizes operations and maintenance activities performed between January 1 and December 31, 2017, at the former Ciba-Geigy Corporation (CIBA) pigments manufacturing facility located at 89 Lower Warren Street in Queensbury, NY, just east of the City of Glens Falls (the Site) (**Figure 1**). Operations and maintenance are performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) Hazardous Waste Management (HWM) Post Closure Permit for the Site (NYSDEC Site No. 557011). A renewal of the Part 373 HWM Permit #5-5234-00008/00096 was issued by the NYSDEC on March 5, 2015.

EHS Support LLC (EHS Support) is submitting this report to the NYSDEC on behalf of Hercules Incorporated (previously acquired by Ashland LLC) and CIBA (previously acquired by BASF Corporation). Hercules and CIBA are the Site permittees and share responsibility for on-going environmental activities.

NYSDEC and City of Glens Falls Site Inspections

The most recent NYSDEC Hazardous Waste Compliance Inspection was conducted on July 17, 2014. No violations were observed during the 2014 inspection.

On September 14, 2017, Lawrence Glasheen, Chief Operator for the City of Glens Falls publicly-owned treatment works (POTW), conducted a yearly Site inspection in accordance with the discharge permit. No issues were identified during the inspection.

GWES Operations Summary

Groundwater extraction system (GWES) operations were performed at the Main Plant Site (MPS) area throughout 2017 in accordance with the *Remedy Optimization Plan* (ROP), which was approved by the NYSDEC and implemented in November 2016. Groundwater was extracted from two sumps (Sumps A and B) in the overburden French Drain System (**Figure 2**). In accordance with the ROP, groundwater is no longer extracted from Sump C or the 20 inactive bedrock extraction wells.

To support the ROP, in December 2016, the Site telemetry system for the GWES instrumentation was repaired and upgraded for Sumps A and B to provide continuous telemetry data, including pump status, pumping rate (when active), and water levels within each sump. The level-float switches in each sump were replaced with transducer control to more accurately control water levels (via pumping) in the sumps.



In April and May of 2017, the pumping level set points in Sumps A and B were refined to achieve maximum drawdown within the sumps (i.e., optimize water extraction), while ensuring pump intakes remain submerged to avoid overheating/damage to the pumps. The pump operations are optimized to maintain water levels in the French Drain at or below the base of the overburden horizon to the extent practicable.

In Sump A, the transducer controlling the pump was calibrated to initiate pumping at a water level elevation of 211.2 feet mean sea level (ft msl) and continue pumping until the water level reaches 209.7 ft msl. The overburden base elevation in the vicinity of Sump A is 215 ft msl or higher, and the invert of the French Drain inlet pipe at Sump A is 210.2 ft msl. In Sump B, the transducer controlling the pump was calibrated to initiate pumping at a water level elevation of 214.0 ft msl and continue pumping until the water level reaches 211.5 ft msl. The overburden base elevation in the vicinity of Sump B is 217 ft msl or higher, and the invert of the French Drain inlet pipe at Sump B is 209.2 ft msl.

Further details related to the ROP implementation were provided to the NYSDEC in the *Remedy Optimization Report* (ROR), dated October 2017.

Extracted groundwater was pumped via force mains to a lift station near the on-Site railroad crossing, then pumped to a 500,000-gallon equalization tank located in the effluent pumping station (EPS) building at the northeastern corner of the Site. The extracted water was then discharged directly from the EPS to the City of Glens Falls POTW in accordance with the City of Glens Falls Industrial User Permit No. 002E, issued in April 2012 (renewed April 2017).

The renewed POTW permit requires discharge sampling and Discharge Monitoring Report (DMR) submittal to the POTW on a quarterly rather than monthly basis, as had been specified in the 2012 permit. Quarterly sampling and DMR reporting has been initiated in 2018.

In February 2018, the POTW provided an updated page 11 for the permit, which specifies a pH range of 6.0-9.0 that is consistent with the site-specific limits indicated on page 3 of the permit. This submittal is included in **Attachment 1**, along with the current permit dated April 2017.

POTW Discharge Monitoring Results

In accordance with the POTW permit (**Attachment 1**), the GWES discharge was monitored for several parameters. DMRs, including the laboratory analytical reports, are included in **Attachment 2**. Under the POTW permit, system discharges must comply with the limits set forth in the POTW permit.

Flow, Chromium, and Cyanide

Permit limits for flow, chromium, and cyanide include:1

• Total Flow: 175,000 gallons per day (GPD) (quarterly average)

• Total Flow: 350,000 GPD (instantaneous maximum)

• Total Chromium: 3.1 pounds per day (lb/day) (maximum quarterly discharge, based on

quarterly sample result and quarterly average flow)

• Total Cyanide: 3.0 milligrams per liter (mg/L) (maximum, based on quarterly sample

result)

¹ In the April 2017 POTW permit renewal, the frequency of sampling and the application of permit limits was revised from monthly to quarterly.



The GWES flow is recorded daily at the permittees' dedicated flow meter, located at the southern end of the Preliminary Treatment Building at the Glens Falls POTW. The GWES discharge is sampled monthly using a composite sampler at the southern end of the Preliminary Treatment Building at the POTW, with samples analyzed for total chromium (United States Environmental Protection Agency [USEPA] Method 200.8) and total cyanide (USEPA Method 335.4).

The 2017 POTW discharge results for flow, cyanide, and chromium measurements are summarized in **Table 1.** The chromium permit limit is a daily mass limit, so the concentration measured in the composite discharge sample is converted to an average daily mass, using the average flow for the period.

For example:

Total chromium:
$$\left(0.39 \ \frac{mg}{L}\right) \left(\frac{g}{10^3 \ mg}\right) \left(\frac{lb}{453.59 \ g}\right) \left(\frac{1 \ L}{0.2642 \ gal}\right) \left(\frac{57,226 \ gal}{day}\right) = 0.19 \ \frac{lb}{day}$$

Table 1. Comparison of Measured Values to Permit Values (Flow, Cyanide, Chromium) **Total Cyanide** Flow (GPD, Max. Flow (GPD, **Total Chromium** Chromium Sample Date Daily) Ave.) (mg/L) (mg/L) (lb/day) 350,000 175,000 **Permit Limits** 3.0 3.1 January 2017 52,000 41.258 1/4/2017 0.69 0.21 0.07 February 2017 2/1/2017 0.08 56,000 44,857 0.90 0.21 March 2017 74,000 44,355 3/2/2017 0.70 0.29 0.11 April 2017 4/10/2017 0.17 103,000 62,400 0.71 0.32 May 2017 86,000 56,355 5/2/2017 0.52 0.27 0.13 0.11 June 2017 93,000 54,100 6/6/2017 0.68 0.25 July 2017 117,000 65,806 7/3/2017 0.91 0.24 0.13 91,000 0.80 0.04 August 2017 46,484 8/1/2017 0.11 September 2017 57,000 48,467 9/5/2017 0.96 0.20 0.08 October 2017 72,000 43,903 10/4/2017 0.85 0.19 0.07 November 2017 63,000 39,767 11/7/2017 0.69 0.16 0.05 December 2017 40,000 29,097 12/11/2017 1.2 0.20 0.05 48,071 0.80 0.22 0.09 Average Maximum 65,806 1.20 0.32 0.17

Note:

Ave = average GPD = gallons per day

Max = maximum

mg/L = milligrams per Liter

Minimum

lb/day = pounds per day

All results were within the applicable permit limits. A comparison of system flow rates and concentrations to historical ranges was detailed in the *Remedy Optimization Report*.

0.52

0.11

0.04

29,097

Other Parameters

The POTW permit also includes limits for several additional parameters. The POTW permit requires continuous sampling for pH; quarterly sampling for lead, mercury, and total phenols (modified from monthly sampling as of April 2017); and annual sampling for 23 additional analytes, chemical oxygen demand, total suspended solids, and oil and grease (frequency and limits provided in **Attachment 1**). GWES operations complied with all additional requirements of the POTW permit (as provided on the DMRs [**Attachment 2**]).



Results from the continuous pH sampling were in compliance with the permit range of 6.0-9.0. Annual discharge sampling for the full suite of analytes listed in the permit was performed on December 11, 2017. Of the other constituents analyzed for permit compliance (i.e., beyond cyanide and chromium, discussed above), only boron, cadmium, calcium, iron, and manganese were detected above respective test method reporting limits, and the results for each of these constituents were one to three orders of magnitude below the applicable permit limits. No mercury, volatile organic compounds (VOCs), or semi-volatile organic compounds (SVOCs) were detected above test method reporting limits.

On-Site GWES Discharge Measurements

Flow totalizers are in place in Sumps A and B, and readings were manually recorded on an approximately weekly basis during 2017 (**Attachment 3**), as well as on a daily basis through the telemetry system beginning in May 2017. Consistent with historical data reviewed for development of the ROP, Sump B had a considerably higher average discharge rate than Sump A. When considering the combined discharge from these two sumps, approximately 70-90 percent of the flow was contributed by Sump B.

After telemetry upgrades were completed for Sumps A and B in December 2016, operational data including pump status and flow rate became available for each location, with data recorded on 15-minute intervals. The data show that pumping typically occurred at Sump A every 2 days for approximately 5 hours, with a pumping rate averaging approximately 14 gallons per minute (gpm) when the pump was active. At Sump B, pumping typically occurred three times a day, for approximately 1.5 to 2-hour intervals. When active, Sump B pumping rates averaged approximately 90 gpm.

GWES and Site Operations and Maintenance

Site inspections were conducted on a weekly, monthly, and quarterly basis to evaluate the condition of multiple Site features, including the Resource Conservation and Recovery Act (RCRA) cap, permeable cover, surface drainage system, and the vegetative cover. Inspection reports are provided in **Attachment 4**.

Fencing and Signage

During weekly inspections, the condition of Site fences was inspected to ensure there were no signs of damage or unauthorized entry. Fence signage was maintained along all fence lines of the MPS, as well as along fence lines of the pre-treatment plant and other off-Site parcels.

Roads and Covers

Access road conditions were assessed during weekly inspections for damage and were plowed during the winter on an as-needed basis. The condition of the cover systems was also assessed. No erosion or disturbance (e.g., by small animals) was discovered. The Site was mowed during the summer months.

GWES, Lift Station, and Discharge Force Main

Preventative maintenance was conducted on the active pumps throughout 2017. The pumps in Sump A and Sump B were pulled, cleaned, and checked for functionality, and probes were cleaned, inspected for continuity, and replaced as necessary. Bio-foul build-up, scaling, and iron buildup were removed from the probes, pumps, and piping to ensure continued operation at peak efficiency. Weekly inspections were conducted to ensure that the pumps and related components were functioning properly and plumbing lines were inspected for leaks. The pump in the EPS was replaced in November 2017. A summary of electrical and mechanical upgrades performed in 2017 is provided in **Table 2**.



Table 2. Summary of Mechanical and Electrical Upgrades

Date	Description				
3/29/2017	Replaced the uninterruptible power supply in EPS. The previous one had burned out on 3/25/2017 due to a power surge.				
5/23/2017	A new temporary pump-control transducer (increased accuracy) was installed at Sump A. The sump pump was replaced in EPS basement (not associated with the GWES). The old pump had failed on 3/25/2017.				
5/24/2017	A new alarm float was installed in the EPS basement in case of future water infiltration. Basement "High High" alarm was added to telemetry system.				
5/25/2017	Programming and wiring was completed to add flow totalizer readings to telemetry system. Daily flow totals now recorded by system for Sump A, Sump B and EPS pumps.				
7/18/2017	Telemetry upgrades including adding a remote reset button, more selection buttons on certain screens, and updates to data radio alarm parameters were implemented. The USB data storage (thumb drive) port was moved to the front of the MCP, for easier access. New LED lights were installed in the wet well room of the EPS to replace the old malfunctioning light ballast. New fused switch and fuses were added at Sump B in support of arc flash upgrades.				
Oct-17	Fixed bent building-mounted electric mast coming off of EPS, and replaced broken guy line so low electric lines running to site trailer could be tightened.				
11/7/2017	New fused switch and fuses added at Lift Station in support of arc flash upgrades. Sump B No-Flow Timed Alarm adjusted from 6 to 8 hours to reduce false alarms during dry weather.				
11/20/2017	Old EPS pumps in wet well, which had been showing reduced flow, were pulled and replaced with a new pump. The temporary transducer in Sump A was replaced with a new high-accuracy pump-control transducer.				
11/21/2017	Arc Flash upgrades were implemented in the EPS.				

Note:

EPS = effluent pumping station

GWES = groundwater extraction system

Cassie B. Renter

LED = light-emitting diode MCP = master control panel

Closing

If you have questions or comments regarding this report or the attached documents, please feel free to contact Cassie Reuter at (608) 558-6795 for discussion.

Sincerely,

Cassie R. Reuter Project Manager



I, Kristin A. VanLandingham, P.E., certify that I am currently a NYS-registered professional engineer and that this *Operations and Maintenance Report* dated March 2018 for the Former Ciba-Geigy Facility located in Queensbury Township, Glens Falls, New York was prepared in accordance with all applicable statutes and regulations, and with DER *Technical Guidance for Site Investigation and Remediation* (DER-10).

Kristin A. VanLandingham, P.E.

NYS License No. 089610

03/01/2018

Date





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Table 2 – Summary of Mechanical and Electrical Upgrades

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List of Attachments:

Attachment 1 – City of Glens Falls Industrial User Permit No. 002E (April 2017)

Attachment 2 – 2017 Discharge Monitoring Reports

Attachment 3 – Sumps A and B Weekly Totalizer Summary

Attachment 4 – Site Inspection Reports

cc: James Vondracek, Ashland Inc.

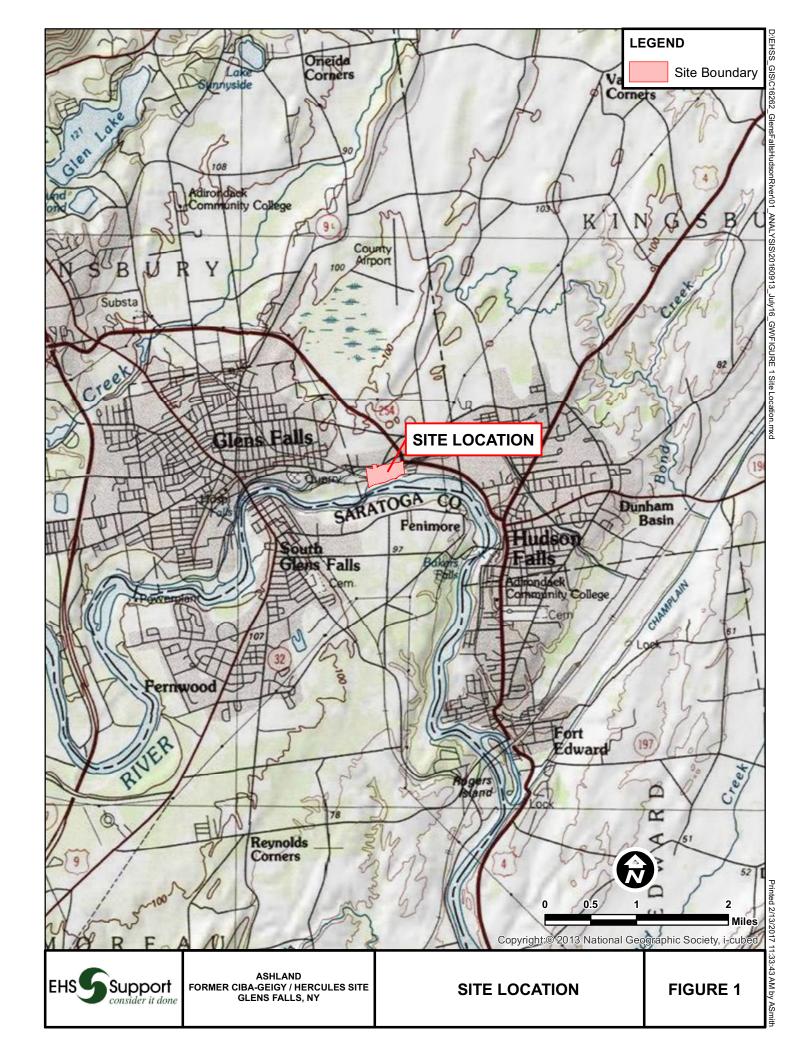
Stephen Havlik, BASF Corporation Christopher Meyer, Antea Group

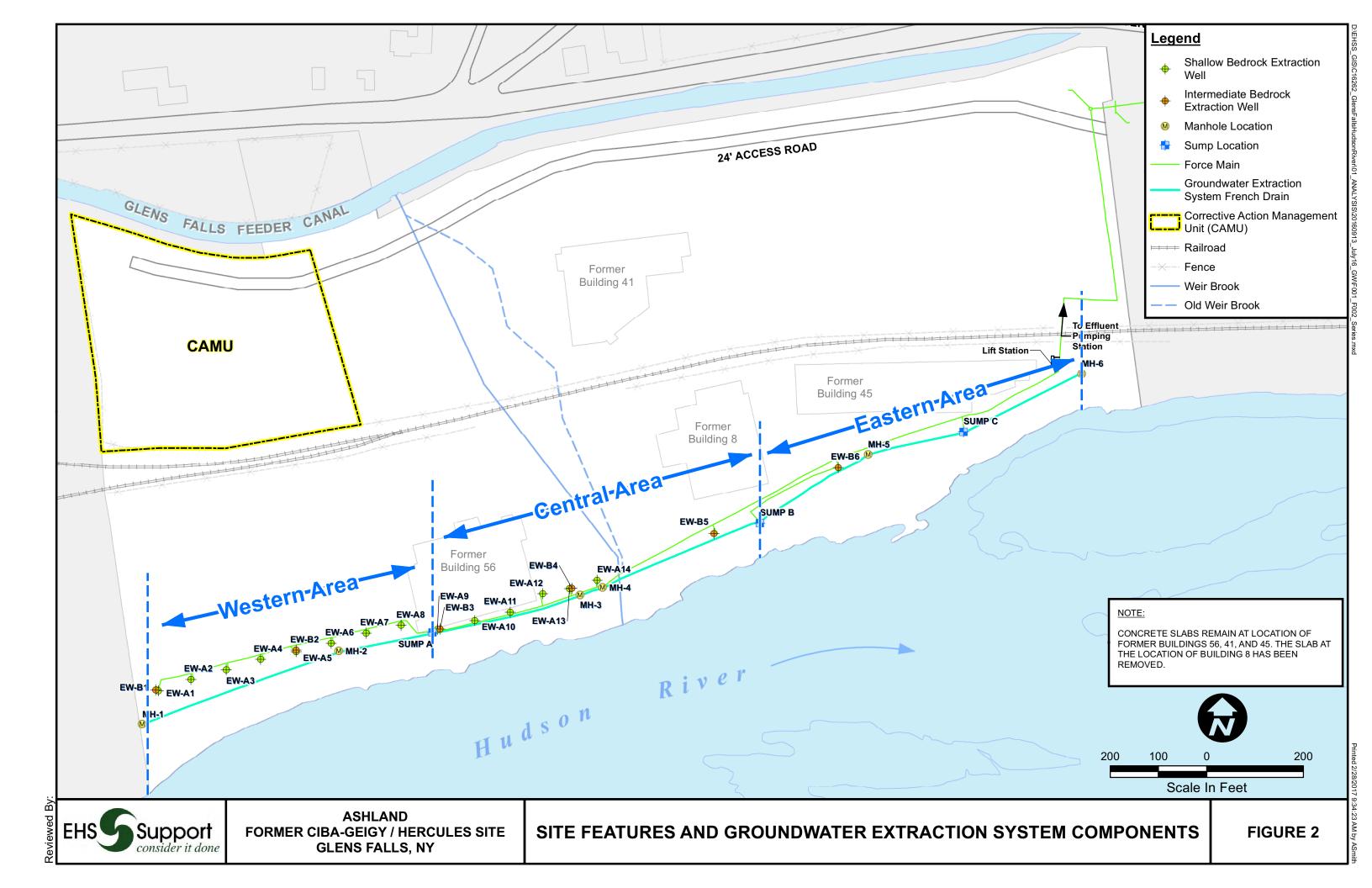
Kristin VanLandingham, P.E., EHS Support

Arlene Lillie, EHS Support



FIGURES







ATTACHMENT 1 – CITY OF GLENS FALLS INDUSTRIAL USER PERMIT NO. 002E (APRIL 2017)

Water & Sewer Department Telephone: [518] 761-3850 24 Hr. Water & Sewer Emergencies: [518] 761-3857

- Fax: [518] 761-3862
- www.cityofglensfalls.com

Hercules LLC Ashland Inc. 5200 Blazer Parkway Dublin, Ohio 43017

Subject: Updated Permit No. 002F

The City of Glens Falls Wastewater Treatment Plant has requested and been granted a change in our Local Limits for pH by the USEPA. We requested the Local Limit for pH be changed from 6.5-8.5 Standard Units to a new limit of 6.0 to 9.0 Standard Units.

We have updated the pages of your permit for your facility at Lower Warren St., Queensbury, New York to reflect this new pH range and are enclosing a copy of the pages of your permit that outline the pH ranges. These pages should be inserted in your permit in sequence to reflect this change.

This modification will take effect on February 1^{st,} 2018.

Please feel free to contact me with any questions.

Sincerely,

Christopher S. Miller

25 mh

Assistant Chief Operator Glens Falls WWTP

Telephone: (518) 761-3850 ext 119

Telefax: (518) 761-3862

Email: cmiller@cityofglensfalls.com

B. During the period commencing April 24, 2017 through midnight April 23, 2022, the discharge from the process wastewater shall not exceed the following effluent limitations. Effluent at this location consists of the discharge from the permittees' effluent pumping station treating groundwater from the Lower Warren Street site that was formerly used by Hercules, Inc. and Ciba-Geigy Inc. for the manufacture of dyes and related chemicals.

EFFLUENT LIMITATIONS

<u>Parameter</u>	Instantaneous Maximum (mg/1)	Quarterly Average (mg/l unless otherwise noted)
Antimony	10	
Ammonia	40	
Arsenic	0.25	
Benzene	0.1	
Boron	5.0	
Cadmium	0.25	
Calcium	500	
Chloroform	1.0	
Chromium, total	see note below *	3.1 lb/day
Copper	1.0	
Cyanide, total	3.0	
Ethylbenzene	0.1	
Iron	50	
Lead	0.8**	
Manganese	5.0	
Mercury	0.025***	0.005
Methylene Chloride	1.0	
Napthalene	1.0	
Nickel	2.3	 .
Oil & Grease	50	
pН	6.0-9.0	
Phenols	5.0	
Silver	0.2	
Toluene	0.1	
1,1,1 - Trichloroethane	1.0	
Xylene	0.1	
Zinc	1.5	
Flow (gallons per day)	350,000	175,000

^{*}The discharge for total chromium is 3.1 lb/day and will be based on the average of chromium sampling data and the quarterly average flow. This limit is based on mass balance calculations as well as the 1999 Wastewater Headworks Analysis Report.

C. All discharges shall comply with all other applicable laws, regulations, standards, and requirements contained in Chapter 177 of the Code of the City of Glens Falls and any applicable State and Federal pretreatment laws, regulations, standards, and requirements including any such laws, regulations, standards, or requirements that may become effective during the term of this permit.

^{**0.8} mg/l Lead recommended as a local limit in the 1999 Wastewater Headworks Analysis Report.

^{***}Variance for Mercury granted by the Water and Sewer Board at the public hearing held June 24, 1991.

- a) Containing any liquid, solid, or gas which, by reason of its nature or quantity, is sufficient, either alone or by interaction with other substances, to cause fire or explosion or be injurious in any way to the POTW or to the operation of the POTW. At no time shall two successive readings on an explosion-hazard meter at the point of discharge in the system or at any point in the system, be more than 5% nor any single reading over 10% of the lower explosive limits (LEL) of the meter. Materials prohibited under this subsection include but are not limited to substance(s) which the Board, the DEC or the EPA has notified a user poses a fire or explosion hazard to the POTW;
- b) Containing solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities, such as but not limited to grease, oil or fat in concentrations exceeding 100 parts per million by weight, garbage with particles greater than ½ inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, wastepaper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud or glass grindings or polishing wastes;
- c) Having a pH less than six point zero (6.0) or higher than nine point zero (9.0) or having any other corrosive property capable of causing damage or hazard to structures, equipment or personnel of the POTW;
- d) Containing any toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, so as to potentially inhibit or interfere with the operation or performance of the POTW, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the POTW or exceed a limitation set forth in a National Categorical Pretreatment Standard. A "toxic pollutant" shall include but not be limited to any pollutant identified pursuant to Section 307 (a) of the Federal Act.
- e) Containing any wastes which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewer for its maintenance and repair.
- f) Containing any substance which may cause the POTW's effluent or any other product of the POTW, such as residues, sludges or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case shall a substance discharged to the POTW cause the POTW to be in noncompliance with the sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act; any criteria, guidelines or regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act or the Toxic Substances Control Act; or state criteria applicable to the sludge management method being used.
- g) Containing any substance which may cause the POTW to violate its State Pollution Discharge Pollution Discharge Elimination System Permit or receiving water quality standard.
- h) Containing any objectionable color not removed in the treatment process, such as but not limited to dye wastes and vegetable tanning solutions.
- i) Having a temperature which may inhibit biological activity in the POTW treatment plant resulting in interference, but in no case wastewater with a temperature at the introduction into the POTW which exceeds forty degrees centigrade (40 degrees C.) [one hundred four degrees Fahrenheit (104 degrees F.)]

City of Glens Falls _____ America's Hometown for the 21st Century - a City of Opportunity

Water & Sewer Department Telephone: [518] 761-3850 24 Hr. Water & Sewer Emergencies: [518] 761-3857

• Fax: [518] 761-3862 www.cityofglensfalls.com

April 22, 2017

Hercules LLC, a wholly owned subsidiary of Ashland Inc. 5200 Blazer Parkway Dublin, Ohio 43017

Dear James E. Vondracek,

Please find your renewed Industrial User Permit. Check for any typographical or factual errors. Contact me with any questions or concerns regarding the permit language or sampling/reporting requirements so they can be resolved as soon as possible.

Sincerely,

Lawrence Glasheen, Chief Operator

Glens Falls WWTP 2 Shermantown Road Glens Falls 12801

Telephone: (518) 761-3850 ext 112

Telefax: (518) 761-3862

Email: <u>lglasheen@cityofglensfalls.com</u>

City of Glens Falls Water and Sewer Board of Commissioners

2 Shermantown Road Glens Falls, NY 12801 Telephone: (518) 761-3850 Fax: (518) 761-3862

Permit No. 002F

INDUSTRIAL USER PERMIT

and

In accordance with the provisions of Chapter 177 of the Code of the City of Glens Falls

Hercules LLC, a wholly owned subsidiary of Ashland Inc. 5200 Blazer Parkway Dublin, Ohio 43017

BASF Corporation 227 Oak Ridge Parkway Toms River, NJ 08754-0071

Are hereby authorized to discharge industrial wastewater from the above identified facility and through the outfall identified herein into the City of Glens Falls sewer system in accordance with the conditions set forth in this permit. Compliance with this permit does not relieve the permittee of its obligation to comply with any or all applicable pretreatment regulations, standards or requirements under local, State, and Federal laws, including any such regulations, standards, requirements, or laws that may become effective during the term of this permit.

Noncompliance with any term or condition of this permit shall constitute a violation of Chapter 177 of the Code of the City of Glens Falls.

This permit shall become effective on April 24, 2017 and shall expire at midnight on April 23, 2022. If the permittee wishes to continue to discharge after the expiration date of this permit, an application must be filed for a renewal permit in accordance with the requirements of Chapter 177 of the Code of the City of Glens Falls, a minimum of 180 days prior to the expiration date.

CITY OF GLENS FALLS

By:

Steven Gurzler, Water & Sewer Superintendent

Issued this 21st day of April, 2017

PART 1 - EFFLUENT LIMITATIONS

A. During the period of April 24, 2017 through midnight April 23, 2022, the permittees is authorized to discharge process wastewater to the City of Glens Falls sewer system from the outfalls listed below.

Description of outfalls:

Outfall

Descriptions

001

The flow from manhole number 5 located at the Glens Falls WWTP to a dedicated conveyance channel where metering and sampling takes place prior to combining with GFWWTP primary effluent. Said discharge is conveyed by a dedicated pipeline from the permittee's effluent pumping station located on Lower Warren Street.

B. During the period commencing April 24, 2017 through midnight April 23, 2022, the discharge from the process wastewater shall not exceed the following effluent limitations. Effluent at this location consists of the discharge from the permittees' effluent pumping station treating groundwater from the Lower Warren Street site that was formerly used by Hercules, Inc. and Ciba-Geigy Inc. for the manufacture of dyes and related chemicals.

EFFLUENT LIMITATIONS

<u>Parameter</u>	Instantaneous Maximum (mg/1)	Quarterly Average (mg/l unless otherwise noted)
Antimony	10	
Ammonia	40	
Arsenic	0.25	
Benzene	0.1	
Boron	5.0	~~
Cadmium	0.25	
Calcium	500	
Chloroform	1.0	
Chromium, total	see note below *	3.1 lb/day
Copper	1.0	
Cyanide, total	3.0	
Ethylbenzene	0.1	
Iron	50	
Lead	0.8**	en
Manganese	5.0	
Mercury	0.025***	0.005
Methylene Chloride	1.0	
Napthalene	1.0	
Nickel	2.3	
Oil & Grease	50	
pН	6.5-8.5	
Phenols	5.0	
Silver	0.2	
Toluene	0.1	
1,1,1 - Trichloroethane	1.0	
Xylene	0.1	
Zinc	1.5	
Flow (gallons per day)	350,000	175,000

^{*}The discharge for total chromium is 3.1 lb/day and will be based on the average of chromium sampling data and the quarterly average flow. This limit is based on mass balance calculations as well as the 1999 Wastewater Headworks Analysis Report.

C. All discharges shall comply with all other applicable laws, regulations, standards, and requirements contained in Chapter 177 of the Code of the City of Glens Falls and any applicable State and Federal pretreatment laws, regulations, standards, and requirements including any such laws, regulations, standards, or requirements that may become effective during the term of this permit.

^{**0.8} mg/l Lead recommended as a local limit in the 1999 Wastewater Headworks Analysis Report.

^{***}Variance for Mercury granted by the Water and Sewer Board at the public hearing held June 24, 1991.

PART 2 - MONITORING REQUIREMENTS

A. From the period beginning on the effective date of the permit until the expiration date, the permittee shall monitor outfall 001 for the following parameters, at the indicated frequency:

Sample Parameter (units)	Sample <u>Location</u>	Frequency	Sample Type
Flow (gpd)	See note 2	Continuous	Meter
BOD (mg/l)	See note 1,3	1/Year	Grab
TSS (mg/1)	See note 1,3	1/Year	Grab
Ammonia (mg/1)	See note 1,3	1/Year	Grab
Antimony (mg/l)	See note 1,3	1/Year	Grab
Arsenic (mg/1)	See note 1,3	1/Year	Grab
Benzene (mg/l)	See note 1,4	1/Year	Grab
Boron (mg/l)	See note 1,3	1/Year	Grab
Cadmium (mg/1)	See note 1,3	1/Year	Grab
Calcium (mg/l)	See note 1,3	1/Year	Grab
Chloroform (mg/l)	See note 1,4	1/Year	Grab
Chromium (mg/1)	See note 1,3	Quarterly	Grab
Copper (mg/1)	See note 1,3	1/Year	Grab
Cyanide (mg/1)	See note 1,3	Quarterly	Grab
Ethylbenzene (mg/l)	See note 1,4	1/Year	Grab
Iron (mg/l)	See note 1,3	1/Year	Grab
Lead (mg/1)	See note 1,3	Quarterly	Grab
Manganese (mg/l)	See note 1,3	I/Year	Grab
Mercury (mg/l)	See note 1,3	Quarterly	Grab
Methylene Chloride (mg/l)	See note 1,4	1/Year	Grab
Napthalene	See note 1,3	1/Year	Grab
Nickel (mg/1)	See note 1,3	1/Year	Grab

Sample Parameter (units)	Sample Location	Frequency	Sample Type
Zinc (mg/1)	See note 1,3	1/Year	Grab
Trichlorophenol (mg/1)	See note 1,4	1/Year	Grab
Pentachlorophenol (mg/l)	See note 1,4	1/Year	Grab
Oil and Grease (mg/l)	See note 1,4	1/Year	Grab
Phenols, Total (mg/l)	See note 1,3	Quarterly	Grab
рН	See note 5	Continuous	Meter
Silver (mg/l)	See note 1,3	1/Year	Grab
Toluene (mg/l)	See note 1,4	1/Year	Grab
1,1,1-Trichloroethane	See note 1,4	1/Year	Grab
Xylene (mg/l)	See note 1,4	1/Year	Grab

Notes

- 1. Composite sampler is located at the Southern end of the Preliminary Treatment Building at the WWTP.
- 2. Daily flows are to be recorded from the permittee's flow meter at the Southern end of the Preliminary Treatment Building at the WWTP
- 3. Composite samples shall be taken at the frequency specified above and tested by a State certified laboratory. Permittee's samples shall be 24 hour time composites except as noted above:
- 4. Grab samples shall be taken from the effluent wet well at the Southern end of the Preliminary Treatment Building at the WWTP at the frequency specified above and tested by a State certified laboratory.
- 5. pH shall be monitored at the Southern end of the Preliminary Treatment Building at the WWTP.
- B. All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 CFR Part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit.

PART 3 - REPORTING REQUIREMENTS

A. Monitoring Reports

Monitoring results obtained shall be summarized and reported on an Industrial User Monitoring Report Form once per quarter. The reports are due on the 28th day of the following month. The report shall indicate the nature and concentration of all pollutants in the effluent for which sampling and analyses were performed including measured maximum and average daily flows.

B. If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 or amendments thereto, or otherwise approved by EPA or as specified in this permit, the results of such monitoring shall be included in any calculations of actual daily maximum or monthly average pollutant discharge and results shall be reported in the monthly report submitted to the City of Glens Falls. Such increased monitoring frequency shall also be indicated in the monthly report.

C. Automatic Resampling

If the results of the permittee's wastewater analysis indicate that a violation of this permit has occurred, the permittee must:

- 1. Inform the City of Glens Falls of the violation within 24 hours; and
- 2. Repeat the sampling and pollutant analysis and submit, in writing, the results of this second analysis within 30 days of the first violation.

D. Accidental Discharge Report

1. The permittee shall notify the City of Glens Falls immediately upon the occurrence of an accidental discharge of substances prohibited by Chapter 177 of the Code of the City of Glens Falls or any slug loads or spills that may enter the public sewer. The City of Glens Falls should be notified by telephone at (518) 761-3850. The notification shall include location of discharge, date and time thereof, type of waste, including concentration and volume, and corrective actions taken. The permittee's notification of accidental releases in accordance with this section does not relieve it of other reporting requirements that arise under local, State, or Federal laws.

Within five days following an accidental discharge, the permittee shall submit to the City of Glens Falls a detailed written report. The report shall specify:

- a. Description and cause of the upset, slug load or accidental discharge, the cause thereof, and the impact on the permittee's compliance status. The description should also include location of discharge, type, concentration and volume of waste.
- b. Duration of noncompliance, including exact dates and times of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonably expected to occur.
- c. All steps taken or to be taken to reduce, eliminate, and/or prevent recurrence of such an upset, slug load, accidental discharge, or other conditions of noncompliance.
- E. All reports required by this permit shall be submitted to the City of Glens Falls at the following address:

City of Glens Falls Attn.: Pretreatment Coordinator 2 Shermantown Rd. Glens Falls, NY 12801

PART 4 - SPECIAL CONDITIONS

A. No Special Monitoring Requirements are applicable at this time.

SECTION 2 - REOPENER CLAUSE

- A. This permit may be reopened and modified to incorporate any new or revised requirements contained in a National Categorical Pretreatment Standard.
- B. This permit may be reopened and modified to incorporate any new or revised requirements resulting from the City of Glens Falls' reevaluation of its local limits.
- C. This permit may be reopened and modified to incorporate any new or revised requirements developed by the City of Glens Falls as are necessary to ensure POTW compliance with any and all regulatory standards.

PART 5 - STANDARD CONDITIONS

SECTION A. GENERAL CONDITIONS AND DEFINITIONS

1. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

2. Duty to comply

The permittee must comply with all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties, injunctive relief, and summary abatements.

3. Duty to mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact to the public treatment plant or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

4. Permit Modification

This permit may be modified for good causes including, but not limited to, the following:

- a. To incorporate any new or revised Federal, State, or local pretreatment standards or requirements.
- b. Material or substantial alterations or additions to the discharger's operation processes, or discharge volume or character which were not considered in drafting the effective permit.

- c. A change in any condition in either the industrial user or the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- d. Information indicating that the permitted discharge poses a threat to the Control Authority's collection and treatment systems, POTW personnel or the receiving waters.
- e. Violation of any terms or conditions of the permit.
- f. Misrepresentation or failure to disclose fully all relevant facts in the permit application or in any required reporting.
- g. Revision of or a grant of variance from such categorical standards pursuant to 40 CFR 403.13.
- h. To correct typographical or other errors in the permit.
- i. To reflect transfer of the facility ownership and/or operation to a new/operator.
- j. Upon request of the permittee, provided such request does not create a violation of any applicable requirements, standards, laws, or rules and regulations.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Permit Termination

This permit may be terminated for the following reasons:

- a. Falsifying self-monitoring reports
- b. Tampering with monitoring equipment
- c. Refusing to allow timely access to the facility premises and records
- d. Failure to meet effluent limitations
- e. Failure to pay fines
- f. Failure to pay sewer charges
- g. Failure to meet compliance schedules

6. Permit Appeals

The permittee may petition to appeal the terms of this permit within thirty (30) days of the notice.

The petition must be in writing; failure to submit a petition for review shall be deemed to be a waiver of the appeal. In its petition, the permittee must indicate the permit provisions objected to, the reasons for this objection, and the alternative condition, if any, it seeks to be placed in the permit.

7. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any violation of Federal, State, or local laws or regulations.

8. <u>Limitation on Permit Transfer</u>

Permits may be reassigned or transferred to a new owner and/or operator with prior approval of the City of Glens Falls:

- a. The permittee must give at least thirty (30) days advance notice to the City of Glens Falls
- b. The notice must include a written certification by the new owner which:
 - (i) States that the new owner has no immediate intent to change the facility's operations and processes
 - (ii) Identifies the specific date on which the transfer is to occur
 - (iii) Acknowledges full responsibility for complying with the existing permit.

9. <u>Duty to Reapply</u>

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must submit an application for a new permit at least 180 days before the expiration date of this permit.

10. Continuation of Expired Permits

An expired permit will continue to be effective and enforceable until the permit is reissued if:

- a) The permittee has submitted a complete permit application at least 180 days prior to the expiration date of the user's existing permit.
- b) The failure to reissue the permit, prior to expiration of the previous permit, is not due to any act or failure to act on the part of the permittee.

11. <u>Dilution</u>

The permittee shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

12. Definitions

a) <u>Daily Maximum</u> – The maximum allowable discharge of pollutant during a calendar day. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitations are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.

- b) Composite Sample A sample that is collected over time, formed either by continuous sampling or by mixing discrete samples. The sample may be composited either as a time composite sample: composed of discrete sample aliquots collected in one container at constant time intervals providing representative samples irrespective of stream flow; or as a flow proportional composite sample: collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquots.
- c) <u>Grab Sample</u> An individual sample collected in less than 15 minutes, without regard for flow or time.
- d) <u>Instantaneous Maximum Concentration</u> The maximum concentration allowed in any single grab sample.
- e) <u>Cooling Water</u> -
 - (1) Uncontaminated: Water used for cooling purposes only which has no direct contact with any raw material, intermediate, or final product and which does not contain a level of contaminants detectably higher than that of the intake water.
 - (2) Contaminated: Water used for cooling purposes only which may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides, or by direct contact with process materials and/or wastewater.
- f) Monthly Average The arithmetic mean of the values for effluent samples collected during a calendar month.
- g) <u>Weekly Average</u> The arithmetic mean of the values for effluent samples collected over a period of seven consecutive days.
- h) <u>Bi-Weekly</u> Once every other week.
- i) <u>Bi- Monthly</u> Once every other month
- j) Quarterly The arithmetic mean of the values for effluent samples collected during a calendar quarter.
- k) <u>Upset</u> Means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee, excluding such factors as operational error, improperly designed or inadequate treatment facilities, or improper operation and maintenance or lack thereof.
- 1) <u>Bypass</u> Means the intentional diversion of wastes from any portion of a treatment facility.

13. General Prohibitive Standards

The permittee shall comply with all the general prohibitive discharge standards in Chapter 177 of the Code of the City of Glens Falls. No user shall contribute or cause to be contributed, directly or indirectly, any pollutant, wastewater, or other material which will inhibit or interfere with the operation or performance of the POTW or the use or disposal of the sludge generated by the POTW or pass through the POTW without adequate treatment in violation of any applicable federal, state, or local environmental regulation into the receiving waters of the Hudson River or into the sludge by-product of the POTW. These general prohibitions apply to all such users of a POTW, whether or not the user is subject to National Categorical Pretreatment Standards or any other national, state, or local pretreatment standards or requirements. Namely, the industrial user shall not discharge wastewater to the sewer system:

- a) Containing any liquid, solid, or gas which, by reason of its nature or quantity, is sufficient, either alone or by interaction with other substances, to cause fire or explosion or be injurious in any way to the POTW or to the operation of the POTW. At no time shall two successive readings on an explosion-hazard meter at the point of discharge in the system or at any point in the system, be more than 5% nor any single reading over 10% of the lower explosive limits (LEL) of the meter. Materials prohibited under this subsection include but are not limited to substance(s) which the Board, the DEC or the EPA has notified a user poses a fire or explosion hazard to the POTW;
- b) Containing solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities, such as but not limited to grease, oil or fat in concentrations exceeding 100 parts per million by weight, garbage with particles greater than ½ inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, wastepaper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud or glass grindings or polishing wastes;
- c) Having a pH less than six point five (6.5) or higher than eight point five (8.5) or having any other corrosive property capable of causing damage or hazard to structures, equipment or personnel of the POTW;
- d) Containing any toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, so as to potentially inhibit or interfere with the operation or performance of the POTW, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the POTW or exceed a limitation set forth in a National Categorical Pretreatment Standard. A "toxic pollutant" shall include but not be limited to any pollutant identified pursuant to Section 307 (a) of the Federal Act.
- e) Containing any wastes which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewer for its maintenance and repair.
- f) Containing any substance which may cause the POTW's effluent or any other product of the POTW, such as residues, sludges or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case shall a substance discharged to the POTW cause the POTW to be in noncompliance with the sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act; any criteria, guidelines or regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act or the Toxic Substances Control Act; or state criteria applicable to the sludge management method being used.
- g) Containing any substance which may cause the POTW to violate its State Pollution Discharge Pollution Discharge Elimination System Permit or receiving water quality standard.
- h) Containing any objectionable color not removed in the treatment process, such as but not limited to dye wastes and vegetable tanning solutions.
- i) Having a temperature which may inhibit biological activity in the POTW treatment plant resulting in interference, but in no case wastewater with a temperature at the introduction into the POTW which exceeds forty degrees centigrade (40 degrees C.) [one hundred four degrees Fahrenheit (104 degrees F.)]

- j) Containing any pollutants, including oxygen-demanding pollutants (BOD, etc.), released at a flow rate and/or pollutant concentration which will cause interference to the POTW. In no case shall a slug load have a flow rate or contain concentrations or qualities of pollutants that exceed, for any time period longer than fifteen (15) minutes, more than five (5) times the average twenty-four hour concentration quantities or flow during normal operation.
- k) Containing any radioactive waste or isotopes of such half-life or concentration as may exceed limits established by the Board in compliance with applicable state or federal regulatons or limits set forth in any applicable federal, state, or local pollutant discharge regulation.
- 1) Containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials at the sewage treatment plant.
- m) Containing any substance which exceeds a national categorical pretreatment standard promulgated by the EPA or any other applicable federal, state or local pollutant discharge regulation.
- n) Containing any medical or infectious wastes;
- o) Containing any gasoline, benzene, naptha, fuel oil or other flammable or explosive liquids, solids or gases; and in no case pollutants with a closed cup flashpoint of less than one hundred forty (140) degrees Fahrenheit (60 degrees C), or pollutants which cause an exceedance of 10 percent of the Lower Explosive Limit (LEL) at any point within the POTW.

14. Compliance with Applicable Pretreatment Standards and Requirements

Compliance with this permit does not relieve the permittee from its obligations regarding compliance with any and all applicable local, State and Federal pretreatment standards and requirements including any such standards or requirements that may become effective during the term of this permit.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes but is not limited to: effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

2. Duty to Halt or Reduce Activity

Upon reduction of efficiency of operation, or loss or failure of all or part of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control its production or discharges (or both) until operation of the treatment facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Bypass of Treatment Facilities

- a) Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury, or severe property damage or no feasible alternatives exist.
- b) The permittee may allow bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation.
- c) Notification of bypass:
 - (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass, to the City of Glens Falls
 - Unanticipated bypass. The permittee shall immediately notify the City of Glens Falls and submit a written notice to the POTW within 5 days. This report shall specify:
 - (i) A description of the bypass, and its cause, including its duration;
 - (ii) Whether the bypass has been corrected; and
 - (iii) The steps being taken or to be taken to reduce, eliminate and prevent a reoccurrence of the bypass.

4. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act or in accordance with the latest appropriate State and/or Federal requirements.

SECTION C. MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water or substance. All equipment used for sampling and analysis must be routinely calibrated, inspected and maintained to ensure their accuracy. Monitoring points shall not be changed without notification to and the approval of the City of Glens Falls.

2. Flow Measurements

If flow measurement is required by this permit, the appropriate flow measurement devices and methods consistent with approved scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10 percent from true discharge rates throughout the range of expected discharge volumes.

3. Analytical Methods to Demonstrate Continued Compliance

All sampling and analysis required by this permit shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, otherwise approved by EPA, or as specified in this permit.

4. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures identified in Section C.3, the results of this monitoring shall be included in the permittee's self-monitoring reports.

5. Inspection and Entry

The permittee shall allow the City of Glens Falls, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit;
- d) Sample or monitor, for the purposes of assuring permit compliance, any substances or parameters at any location; and
- e) Inspect any production, manufacturing, fabricating, or storage are where pollutants, regulated under the permit, could originate, be stored, or be discharged to the sewer system.

6. Retention of Records

a) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurements, report or application.

This period may be extended by request of the City of Glens Falls at any time.

b) All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the City of Glens Falls shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

7. Record Contents

Records of sampling and analyses shall include:

- a) The date, exact place, time, and methods of sampling or measurements, and sample preservation techniques or procedures;
- b) Who performed the sampling or measurements;
- c) The date(s) analyses were performed;

- d) Who performed the analyses;
- e) The analytical techniques or methods used; and
- f) The results of such analyses.

8. Falsifying Information

Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate, is a crime and may result in the imposition of criminal sanctions and/or civil penalties.

SECTION D. ADDITIONAL REPORTING REQUIRMENTS

1. Planned Changes

The permittee shall give notice to the City of Glens Falls 90 days prior to any facility expansion, production increase, or process modifications which results in new or substantially increased discharges or a change in the nature of the discharge.

2. Anticipated Noncompliance

The permittee shall give advance notice to the City of Glens Falls of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. <u>Automatic Resampling</u>

If the results of the permittee's wastewater analysis indicates a violation has occurred, the permittee must notify the City of Glens Falls within 24 hours of becoming aware of the violation and repeat the sampling and pollutant analysis and submit, in writing, the results of this repeat analysis within 30 days after becoming aware of the violation.

4. Duty to Provide Information

The permittee shall furnish to the City of Glens Falls within 10 days any information which the City of Glens Falls may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also, upon request, furnish to the City of Glens Falls within 10 days copies of any records required to be kept by this permit.

5. <u>Signatory Requirements</u>

All applications, reports, or information submitted to the City of Glens Falls must contain the following certification statement and be signed as required in Sections (a), (b), (c) or (d) below:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a) By a responsible corporate officer, if the Industrial User submitting the reports is a corporation. For the purpose of this paragraph, a responsible corporate officer means:

- a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decisionmaking functions for the corporation, or;
- (ii) the manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- b) By a general partner or proprietor if the Industrial User submitting the reports is a partnership or sole proprietorship respectively.
- c) The principal executive officer or director having responsibility for the overall operation of the discharging facility if the Industrial User submitting the reports is a Federal, State, or local governmental entity, or their agents.
- d) By a duly authorized representative of the individual designated in paragraph (a), (b), or (c);
 - (i) the authorization is made in writing by the individual described in paragraph (a), (b), or (c);
 - (ii) the authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates, such as the position of plant manager, operator of a well, or a well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and
 - (iii) the written authorization is submitted to the City.
- e) If an authorization under paragraph (d) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for the environmental matters for the company, a new authorization satisfying the requirements of paragraph (d) of this section must be submitted to the City of Glens Falls prior to or together with any reports to be signed by an authorized representative.

6. Operating Upsets

Any permittee that experiences an upset in operations that places the permittee in a temporary state of noncompliance with the provision of either this permit or with any section of Chapter 177 of the Code of the City of Glens Falls, shall inform the City of Glens Falls within 24 hours of becoming aware of the upset at (518) 761-3850.

A written follow-up report of the upset shall be filed by the permittee with the City of Glens Falls within five days. The report shall specify:

- a) Description of the upset, the cause(s) thereof and the upset's impact on the permittee's compliance status;
- b) Duration of noncompliance, including exact dates and times of noncompliance, and if not corrected, the anticipated time the noncompliance is expected to continue; and
- All steps taken or to be taken to reduce, eliminate and prevent recurrence of such an upset.

The report must also demonstrate that the treatment facility was being operating in an appropriate manner.

A documented and verified operating upset shall be an affirmative defense to any enforcement action brought

against the permittee for violations attributable to the upset event.

7. Annual Publication

A list of all industrial users which were subject to enforcement proceedings during the twelve (12) previous months shall be annually published by the City of Glens Falls in the largest daily newspaper within its service area. Accordingly, the permittee is apprised that noncompliance with this permit may lead to an enforcement action and may result in publication of its name in an appropriate newspaper in accordance with this section.

8. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil and/or criminal penalties for noncompliance under Chapter 177 of the Code of the City of Glens Falls or State or Federal laws or regulations.

9. Penalties for Violations of Permit Conditions

The City of Glens Falls provides that any person who violates a permit condition is subject to administrative penalties of up to \$5000 per violation per day and civil penalties of up to \$5000 per violation per day. Any person who willfully or negligently violates permit conditions is subject to criminal penalties of \$5000 per violation per day, or imprisonment for six months, or both. The permittee may also be subject to sanctions under State and/or Federal law.

10. Recovery of Costs Incurred

In addition to civil and criminal liability, the permittee violating any of the provisions of this permit or Chapter 177 of the Code of the City of Glens Falls or causing damage to or otherwise inhibiting the City of Glens Falls wastewater disposal system shall be liable to the City of Glens Falls for any expense, loss, or damage caused by such violation or discharge. The City of Glens Falls shall bill the permittee for the costs incurred by the City of Glens Falls for any cleaning, repair, or replacement work caused by the violation or discharge. Refusal to pay the assessed costs shall constitute a separate violation of Chapter 177 of the Code of the City of Glens Falls.



ATTACHMENT 2 – 2017 DISCHARGE MONITORING REPORTS



Hercules LLC a wholly owned subsidiary of Ashland, LLC Ashland LLC. - EH&S - DS4 5200 Blazer Parkway Dublin, Ohio 43017

February 8, 2017

Mr. Larry Glasheen Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for January 2017
Industrial Wastewater - Discharge Permit No. 002E

Dear Mr. Glasheen:

Attached is the January 2017 Discharge Monitoring Report for the Hercules/Ciba site. The monthly wastewater sample was collected on January 4, 2017. All parameters meet the limits of the wastewater discharge permit, effective April 23, 2007 and renewed April 2012.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

James E. Vondracek, P.E. Principal Remediation Engineer

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Attachments

cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ

ATTACHMENT 1 DISCHARGE DATA

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
LOOATION.	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America	MOTO	Moter				
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or				9.1		5.0	31
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.			0.005				175,000
n Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min.	0.21	0.00	0.00	0.69	0.00	6.9	30,000
Monthly ave.	0.21	0.00	0.00	0.69	0.00	7.2	41,258
Monthly max.	0.21	0.00	0.00	0.69	0.00	7.4	52,000
Data points	1	1	1	1	1	31	31
Date:				·		O I	31
01/01/17						7.1	40,000
01/02/17						7.0	38,000
01/02/17						7.1	42,000
01/03/17	0.210	ND	ND	0.69	ND	7.1	30.000
01/05/17	0.210	110	110	0.00	110	7.3	52,000
01/06/17						7.2	48,000
01/07/17						7.2	37,000
01/08/17						7.1	44,000
01/09/17						7.3	38,000
01/10/17						7.2	31,000
01/11/17						7.3	36,000
01/12/17						7.3	31,000
01/13/17						7.3	38,000
01/14/17						7.3	50,000
01/15/17						7.3	41,000
01/16/17						7.2	41,000
01/17/17						7.2	41,000
01/18/17						7.2	33,000
01/19/17						7.3	39,000
01/20/17						6.9	42,000
01/21/17						7.2	42,000
01/22/17						7.2	42,000
01/23/17						7.2	41,000
01/24/17						7.4	41,000
01/25/17						7.3	42,000
01/26/17						7.2	45,000
01/27/17						7.3	45,000
01/28/17	·		·	·	·	7.2	46,000
01/29/17						7.2	45,000
01/30/17			<u> </u>			7.1	50,000
01/31/17						7.4	48,000
Monthly Average	for Chromium						
Concentration	0.21 mg	g/L					
Ave. Flow	41,258 gp	od					
Ave. Load	0.07 #/d						
PERMIT	3.10 #/0						

ND = Non-Detect. Value reported to be below the laboratory Reporting Limit. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L. The laboratory Reporting Limit for Phenols is 0.050 mg/L.

ATTACHMENT 2 ANALYTICAL DATA



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-134040-1

Client Project/Site: Hercules Glens Falls O&M POTW Monthly

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Lathurn Smith

Authorized for release by: 1/11/2017 3:09:36 PM

Kathryn Smith, Senior Project Manager (912)354-7858

kathy.smith@testamericainc.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC TestAmerica Job ID: 680-134040-1

Project/Site: Hercules Glens Falls O&M POTW Monthly

Qualifiers

Metals

U Indicates the analyte was analyzed for but not detected.

General Chemistry

U Indicates the analyte was analyzed for but not detected.

Glossary

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

Minimum detectable concentration

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Page 2 of 13

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Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134040-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-134040-1	POTW_01042017	Water	01/04/17 13:50	01/07/17 11:45

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134040-1

Job ID: 680-134040-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M POTW Monthly

Report Number: 680-134040-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 01/07/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.7 C.

TOTAL METALS (ICPMS)

Sample POTW_01042017 (680-134040-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 01/10/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_01042017 (680-134040-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 01/10/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_01042017 (680-134040-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The samples were prepared and analyzed on 01/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_01042017 (680-134040-1) was analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 01/10/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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TestAmerica Savannah 1/11/2017

Client Sample Results

Client: Ashland LLC

Client Sample ID: POTW_01042017

Project/Site: Hercules Glens Falls O&M POTW Monthly

Lab Sample ID: 680-134040-1

Analyzed

01/09/17 10:39

01/10/17 13:48

Prepared

01/09/17 06:31

01/10/17 08:28

TestAmerica Job ID: 680-134040-1

Matrix: Water

Date Collected: 01/04/17 13:50

Result Qualifier

0.69

0.050 U

Date Received: 01/07/17 11:45

Analyte

Cyanide, Total

Phenolics, Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	210		5.0	1.6	ug/L		01/10/17 10:13	01/10/17 18:18	
Lead	2.5	U	2.5	0.98	ug/L		01/10/17 10:13	01/10/17 18:18	1
Method: 245.1 - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		01/10/17 07:30	01/10/17 13:43	1

RL

0.010

0.050

MDL Unit

0.0025 mg/L

0.025 mg/L

0

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Dil Fac

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TestAmerica Job ID: 680-134040-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-464686/1-A

Matrix: Water

Analysis Batch: 464822

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 464686

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		01/10/17 10:13	01/10/17 17:53	1
Lead	2.5	U	2.5	0.98	ug/L		01/10/17 10:13	01/10/17 17:53	1

Lab Sample ID: LCS 680-464686/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 464822							Prep	Batch: 4	64686
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium	 100	112		ug/L		112	85 - 115		
Lead	500	547		ug/L		109	85 - 115		
—									

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-464647/13-A

Matrix: Water

Analysis Batch: 464893

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 464647

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.20 U 0.20 0.080 ug/L 01/10/17 07:30 01/10/17 13:17 Mercury

Lab Sample ID: LCS 680-464647/15-A

Matrix: Water

Analysis Batch: 464893

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 464647**

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 85 _ 115 2.50 ug/L 100

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-464499/1-A

Matrix: Water

Analysis Batch: 464572

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 464499

MB MB

Result Qualifier Analyte RLMDL Unit D Prepared Analyzed Dil Fac Cyanide, Total 0.010 U 0.010 0.0025 mg/L 01/09/17 06:31 01/09/17 10:55

LCS LCS

Lab Sample ID: LCS 680-464499/2-A

Matrix: Water

Analysis Batch: 464572

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 464499

%Rec.

Added Analyte Result Qualifier %Rec Limits Unit D Cyanide, Total 0.0501 0.0477 mg/L 95 90 - 110

Spike

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-134040-1

Project/Site: Hercules Glens Falls O&M POTW Monthly

Method: 420.1 - Phenolics, 1	Γotal	Recovera	bl	е
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Lab Sample ID: MB 680-464657/1-A	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 464830	Prep Batch: 464657

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		01/10/17 08:28	01/10/17 13:48	1

Lab Sample ID: LCS 680-464657/2-A

Matrix: Water

Analysis Batch: 464830

Spike

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464657

Rec.

AnalyteAddedResultQualifierUnitD%RecLimitsPhenolics, Total Recoverable0.1000.112mg/L11275 - 125

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QC Association Summary

Client: Ashland LLC TestAmerica Job ID: 680-134040-1 Project/Site: Hercules Glens Falls O&M POTW Monthly

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Prep Batch: 464647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	245.1	
MB 680-464647/13-A	Method Blank	Total/NA	Water	245.1	
LCS 680-464647/15-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 464686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	200.8	
MB 680-464686/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-464686/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 464822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	200.8	464686
MB 680-464686/1-A	Method Blank	Total/NA	Water	200.8	464686
LCS 680-464686/2-A	Lab Control Sample	Total/NA	Water	200.8	464686

Analysis Batch: 464893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	245.1	464647
MB 680-464647/13-A	Method Blank	Total/NA	Water	245.1	464647
LCS 680-464647/15-A	Lab Control Sample	Total/NA	Water	245.1	464647

General Chemistry

Prep Batch: 464499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	Distill/CN	
MB 680-464499/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-464499/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 464572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	335.4	464499
MB 680-464499/1-A	Method Blank	Total/NA	Water	335.4	464499
LCS 680-464499/2-A	Lab Control Sample	Total/NA	Water	335.4	464499

Prep Batch: 464657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	Distill/Phenol	
MB 680-464657/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-464657/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 464830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-134040-1	POTW_01042017	Total/NA	Water	420.1	464657
MB 680-464657/1-A	Method Blank	Total/NA	Water	420.1	464657
LCS 680-464657/2-A	Lab Control Sample	Total/NA	Water	420.1	464657

TestAmerica Savannah

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1/11/2017

Lab Chronicle

Client: Ashland LLC TestAmerica Job ID: 680-134040-1

Project/Site: Hercules Glens Falls O&M POTW Monthly

Lab Sample ID: 680-134040-1

Matrix: Water

Client Sample ID: POTW_01042017 Date Collected: 01/04/17 13:50

Date Received: 01/07/17 11:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			464686	01/10/17 10:13	AJR	TAL SAV
Total/NA	Analysis	200.8		1	464822	01/10/17 18:18	BWR	TAL SAV
Total/NA	Prep	245.1			464647	01/10/17 07:30	JKL	TAL SAV
Total/NA	Analysis	245.1		1	464893	01/10/17 13:43	JKL	TAL SAV
Total/NA	Prep	Distill/CN			464499	01/09/17 06:31	DAM	TAL SAV
Total/NA	Analysis	335.4		1	464572	01/09/17 10:39	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			464657	01/10/17 08:28	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	464830	01/10/17 13:48	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TestAmerica Job ID: 680-134040-1

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M POTW Monthly

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-17
lowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16 *
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-17
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program		GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP		GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP		68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-16-9	11-30-17
US Fish & Wildlife	Federal	U	LE058448-0	10-31-17
USDA			SAV 3-04	
USDA Virginia	Federal NELAP	3	460161	06-11-17 06-14-17
•				
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16 *
West Virginia DEP	State Program	3	094	06-30-17
Wisconsin Wyoming	State Program State Program	5 	999819810 8TMS-L	08-31-17 06-30-16 *

 $[\]ensuremath{^{\star}}$ Certification renewal pending - certification considered valid.

TestAmerica Savannah

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Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134040-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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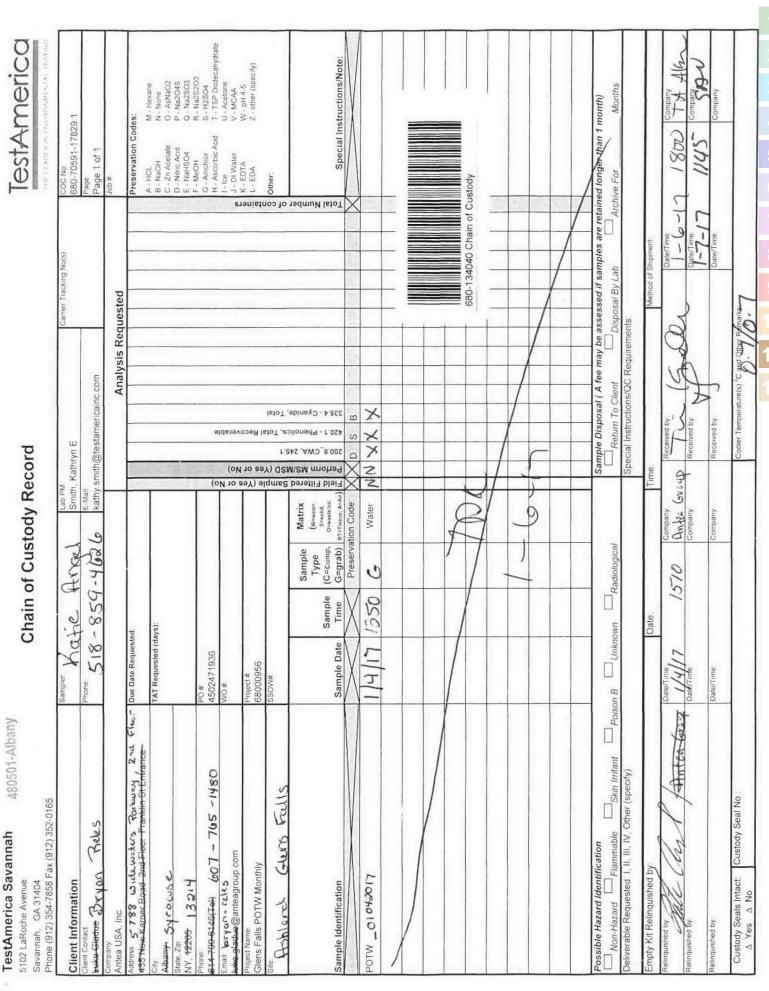
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Login Sample Receipt Checklist

Client: Ashland LLC Job Number: 680-134040-1

Login Number: 134040 List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

oreator. I lanagan, Naonn V		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Hercules LLC A wholly owned subsidiary of Ashland, LLC Ashland LLC. - EH&S - DS4 5200 Blazer Parkway Dublin, Ohio 43017

March 24, 2017

Mr. Larry Glasheen Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for February 2017
Industrial Wastewater - Discharge Permit No. 002E

Dear Mr. Glasheen:

Attached is the February 2017 Discharge Monitoring Report for the Hercules/Ciba site. The monthly wastewater sample was collected on February 1, 2017. All parameters meet the limits of the wastewater discharge permit, effective April 23, 2007 and renewed April 2012.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

James E. Vondracek, P.E. Principal Remediation Engineer

Jan Hardon

Attachments

cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ

ATTACHMENT 1 DISCHARGE DATA

The laboratory Reporting Limit for Lead is 0.0025 mg/L.
The laboratory Reporting Limit for Mercury is 0.00020 mg/L.

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America						
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total	Total	Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenois	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	рН	gpd
POTW Permit or	r min					5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.			0.005				175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.21	0.00	0.00	0.90	0.03	6.7	38,000
Monthly ave	0.21	0.00	0.00	0.90	0.03	7.2	44,857
Monthly max	0.21	0.00	0.00	0.90	0.03	7.3	56,000
Data points	1	1	1	1	1	28	28
Date:						_	
02/01/17	0.210	ND	ND	0.90	0.033	7.2	44,000
02/02/17						7.3	42,000
02/03/17						7.3	43,000
02/04/17						7.2	46,000
02/05/17						7.2	43,000
02/06/17						7.1	41,000
02/07/17						7.3	40,000
02/08/17						7.2	39,000
02/09/17						7.3	47,000
02/10/17						7.1	45,000
02/11/17						7.2	51,000
02/12/17						7.2	48,000
02/13/17						7.2	41,000
02/14/17						7.2	43,000
02/15/17						7.3	42,000
02/16/17						7.2	42,000
02/17/17						6.7	43,000
02/18/17						7.2	40,000
02/19/17						7.2	38,000
02/20/17						7.2	41,000
02/21/17						7.3	44,000
02/22/17						7.1	43,000
02/23/17						7.2	49,000
02/24/17						7.2	55,000
02/25/17						7.2	51,000
02/26/17			·			7.0	48,000
02/27/17						7.0	56,000
02/28/17						7.0	51,000
Monthly Average	for Chromium						
Concentration	0.21 mg	a/L					
Ave. Flow	44,857 gp						
Ave. Load	0.08 #/c						
PERMIT	3.10 #/0	•					
Notes:	3.10 #/0	uay					
110103.							

ATTACHMENT 2 ANALYTICAL DATA



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-134897-1

Client Project/Site: Hercules Glens Falls O&M POTW Monthly

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Lathurn Smith

Authorized for release by: 2/9/2017 3:20:42 PM

Kathryn Smith, Senior Project Manager (912)354-7858

kathy.smith@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC TestAmerica Job ID: 680-134897-1

Project/Site: Hercules Glens Falls O&M POTW Monthly

Qualifiers

Metals

Qualifier	Qualifier	Description

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDI	Method Detection Limit

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

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Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134897-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-134897-1	POTW_02012017	Water	02/01/17 15:00	02/02/17 09:15

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134897-1

Job ID: 680-134897-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M POTW Monthly

Report Number: 680-134897-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 02/02/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.0 C.

TOTAL METALS (ICPMS)

Sample POTW_02012017 (680-134897-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 02/06/2017 and analyzed on 02/08/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_02012017 (680-134897-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 02/06/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_02012017 (680-134897-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The samples were prepared and analyzed on 02/08/2017.

Sample POTW 02012017 (680-134897-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_02012017 (680-134897-1) was analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 02/08/2017.

Phenolics, Total Recoverable was detected in method blank MB 680-468189/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Phenolics, Total Recoverable recovered low for LCSD 680-468189/3-A. Phenolics, Total Recoverable exceeded the RPD limit.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Savannah

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Client Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-134897-1

Project/Site: Hercules Glens Falls O&M POTW Monthly

Date Collected: 02/01/17 15:00 Matrix: Water

Date Received: 02/02/17 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	210		5.0	1.6	ug/L		02/06/17 15:57	02/08/17 00:04	1
Lead	2.5	U	2.5	0.98	ug/L		02/06/17 15:57	02/08/17 00:04	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ua/l		02/06/17 10:52	02/06/17 17:52	

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.90		0.10	0.025	mg/L		02/08/17 06:05	02/08/17 11:44	10
Phenolics, Total Recoverable	0.033	J B *	0.050	0.025	mg/L		02/08/17 10:57	02/08/17 12:04	1

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Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134897-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-467920/1-A

Matrix: Water

Analysis Batch: 468238

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467920

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		02/06/17 15:57	02/07/17 23:57	1
Lead	2.5	U	2.5	0.98	ug/L		02/06/17 15:57	02/07/17 23:57	1

Lab Sample ID: LCS 680-467920/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 468238 Prep Batch: 467920 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chromium 100 109 109 85 - 115 ug/L

514

ug/L

500

Lab Sample ID: 680-134897-1 MS

MB MB

Matrix: Water

Lead

Analysis Batch: 468238

Client Sample ID: POTW_02012017 Prep Type: Total/NA

85 - 115

103

Prep Batch: 467920

Spike Sample Sample MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chromium 100 70 - 130 210 314 ug/L 101 2.5 U 500 70 - 130 Lead 511 ug/L 102

Lab Sample ID: 680-134897-1 MSD

Matrix: Water

Analysis Batch: 468238

Client Sample ID: POTW_02012017

Prep Type: Total/NA Prep Batch: 467920

Sample Sample Spike MSD MSD Added RPD Limit Analyte Result Qualifier Qualifier %Rec Limits Result Unit 100 2 Chromium 210 307 ug/L 94 70 - 130 20 2.5 U 500 Lead 500 ug/L 100 70 - 130 2 20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-467852/1-A

Matrix: Water

Analysis Batch: 467973

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 467852

Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed Mercury 0.20 U 0.20 0.080 ug/L 02/06/17 10:41 02/06/17 16:49

Lab Sample ID: LCS 680-467852/3-A

Matrix: Water

Analysis Batch: 467973

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 467852**

%Rec.

Spike LCS LCS Added Analyte Result Qualifier Unit %Rec Limits 2.50 Mercury 2.54 ug/L 102 85 - 115

MB MB

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134897-1

Client Sample ID: Method Blank

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-468122/1-A

Lab Sample ID: LCS 680-468122/2-A

Matrix: Water

Matrix: Water

Client: Ashland LLC

Analysis Batch: 468207

Analysis Batch: 468207

Prep Type: Total/NA

Prep Batch: 468122

мв мв

Result Qualifier RL MDL Unit Dil Fac Analyte D Prepared Analyzed 0.010 0.0025 mg/L 02/08/17 06:05 02/08/17 11:05 Cyanide, Total 0.010 U

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS

Prep Batch: 468122

Limits

Added Analyte Result Qualifier Unit %Rec Cyanide, Total 0.0501 0.0488 mg/L 97 90 - 110

Spike

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-468189/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 468268

Prep Type: Total/NA

Prep Batch: 468189

Prep Batch: 468189

MR MR

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Phenolics, Total Recoverable 0.050 02/08/17 10:57 02/08/17 14:02 0.0254 J 0.025 mg/L

Lab Sample ID: LCS 680-468189/2-A Client Sample ID: Lab Control Sample **Matrix: Water**

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Analysis Batch: 468268

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits

Phenolics, Total Recoverable 0.100 0.113 113 75 - 125 mg/L

Lab Sample ID: LCSD 680-468189/3-A

Matrix: Water

Prep Type: Total/NA Analysis Batch: 468268 **Prep Batch: 468189** Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limit D %Rec

Analyte Unit Limits RPD Phenolics, Total Recoverable 0.100 0.0705 mg/L 75 - 125 46 30

QC Association Summary Client: Ashland LLC TestAmerica Job ID: 680-134897-1 Project/Site: Hercules Glens Falls O&M POTW Monthly Metals **Prep Batch: 467852** Lab Sample ID Client Sample ID **Prep Type** Matrix Method Prep Batch POTW_02012017 245.1 680-134897-1 Total/NA Water MB 680-467852/1-A Method Blank Total/NA Water 245.1 LCS 680-467852/3-A Lab Control Sample Total/NA Water 245.1 Prep Batch: 467920 Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 680-134897-1 POTW 02012017 Total/NA 200.8 Water MB 680-467920/1-A Method Blank Total/NA Water 200.8 LCS 680-467920/2-A Lab Control Sample Total/NA Water 200.8 680-134897-1 MS POTW_02012017 Total/NA Water 200.8 680-134897-1 MSD POTW 02012017 Total/NA Water 200.8 Analysis Batch: 467973 Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 680-134897-1 POTW_02012017 Total/NA Water 245.1 467852 MB 680-467852/1-A Total/NA Method Blank Water 245.1 467852 LCS 680-467852/3-A Lab Control Sample Total/NA Water 245.1 467852 Analysis Batch: 468238 Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 200.8 680-134897-1 POTW_02012017 Total/NA Water 467920 MB 680-467920/1-A Method Blank Total/NA Water 200.8 467920 200.8 LCS 680-467920/2-A Total/NA 467920 Lab Control Sample Water 200.8 680-134897-1 MS POTW 02012017 Total/NA Water 467920 680-134897-1 MSD POTW_02012017 Total/NA Water 200.8 467920 **General Chemistry Prep Batch: 468122** Lab Sample ID Client Sample ID Method **Prep Type** Matrix Prep Batch Water 680-134897-1 POTW_02012017 Total/NA Distill/CN MB 680-468122/1-A Method Blank Total/NA Water Distill/CN LCS 680-468122/2-A Lab Control Sample Total/NA Water Distill/CN **Prep Batch: 468189** Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 680-134897-1 POTW 02012017 Distill/Phenol Total/NA Water MB 680-468189/1-A Method Blank Total/NA Distill/Phenol Water LCS 680-468189/2-A Total/NA Distill/Phenol Lab Control Sample Water LCSD 680-468189/3-A Lab Control Sample Dup Total/NA Water Distill/Phenol Analysis Batch: 468207

Prep Type

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Lab Sample ID

680-134897-1

Lab Sample ID

680-134897-1

MB 680-468122/1-A

LCS 680-468122/2-A

Analysis Batch: 468268

Client Sample ID

POTW 02012017

Lab Control Sample

Client Sample ID

POTW 02012017

Method Blank

TestAmerica Savannah

Prep Batch

468122

468122

468122

Prep Batch

468189

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Matrix

Water

Water

Water

Matrix

Water

Method

335.4

335.4

335.4

Method

420.1

QC Association Summary

Client: Ashland LLC TestAmeric

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134897-1

General Chemistry (Continued)

Analysis Batch: 468268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-468189/1-A	Method Blank	Total/NA	Water	420.1	468189
LCS 680-468189/2-A	Lab Control Sample	Total/NA	Water	420.1	468189
LCSD 680-468189/3-A	Lab Control Sample Dup	Total/NA	Water	420.1	468189

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134897-1

Client Sample ID: POTW_02012017 Lab Sample ID: 680-134897-1

Date Collected: 02/01/17 15:00 Matrix: Water

Date Received: 02/02/17 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			467920	02/06/17 15:57	AJR	TAL SAV
Total/NA	Analysis	200.8		1	468238	02/08/17 00:04	BWR	TAL SAV
Total/NA	Prep	245.1			467852	02/06/17 10:52	JKL	TAL SAV
Total/NA	Analysis	245.1		1	467973	02/06/17 17:52	JKL	TAL SAV
Total/NA	Prep	Distill/CN			468122	02/08/17 06:05	DAM	TAL SAV
Total/NA	Analysis	335.4		10	468207	02/08/17 11:44	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			468189	02/08/17 10:57	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	468268	02/08/17 12:04	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TestAmerica Job ID: 680-134897-1

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M POTW Monthly

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	01-31-17 *
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-17
lowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16 *
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-17
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program		GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP		GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico		2		12-31-17
South Carolina	State Program State Program	4	GA00006 98001	06-30-17
	-			
Tennessee	State Program NELAP	4 6	TN02961 T104704185-16-9	06-30-17
Texas US Fish & Wildlife		U		11-30-17
	Federal		LE058448-0	10-31-17
USDA Virginia	Federal	2	SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16 *
West Virginia DEP	State Program	3	094	06-30-17
Wisconsin Wyoming	State Program State Program	5	999819810	08-31-17

 $^{^{\}star}$ Certification renewal pending - certification considered valid.

TestAmerica Savannah

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Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M POTW Monthly

TestAmerica Job ID: 680-134897-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah

480501-Albany

Savannah, GA 31404 5102 LaRoche Avenue

T - TSP Dodecahydrate U - Acetone V - MCAA Special Instructions/Note: Z - other (specify) P - Na204S Q - Na2SO3 R - Na2S2O3 S - H2SO4 N - None O - AsNaO2 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont 680-70594-17829.1 Preservation Codes: 1638 H - Ascorbic Acid - Zn Acetate O - Nitric Acid E - NaHSO4 F - MeOH 1 - Ice J - Di Water K - EDTA Page 1 of 1 G - Amchlor 2-2-17 Total Number of containers Date/Time: 0. Analysis Requested ooler Temperature(s) °C and Other Remarks. V-39CM504 Return To Client Disp.
Special Instructions/QC Requirements: Contraction of the kathy.smith@testamericainc.com 335.4 - Cyanide, Total 420.1 - Phenolics, Total Recoverable Smith, Kathryn E 200.8 CWA, 245.1 Anter Govp MS/MSD (Yes or No) E-Mail: Water Preservation Code: Matrix Type (C=comp, Radiological G=grab) Sample 84 9 1638 58-859-4626 00 Sample Katie Arged Time Unknown (AT Requested (days) 13017 Due Date Requested: Sample Date 1 7/1/0 Project #: 68000956 SSOW#; PO#. Poison B 614 700 6140(Tel) 607-705 -1480
Email: Person refers @ oxygracycup cent Address. 5-788 Wickenackers (Phay, Ond Floor Add New Karner Road and Eloor Erankins) Entransee Skin Irritant eliverable Requested: I, II, III, IV, Other (specify) Glens Falls Custody Seal No. Phone (912) 354-7858 Fax (912) 352-0165 680-134897 Chain of Custody Flammable Gladua Bryan Reles Possible Hazard Identification About Syrocose Glens Falls POTW Monthly mpty Kit Relinquished by: Custody Seals Intact: 7106 1060 WTO Client Information Sample Identification NY, 42206 13314 A Yes A No Ashland Non-Hazard Antea USA, Inc. 3

Login Sample Receipt Checklist

Client: Ashland LLC Job Number: 680-134897-1

Login Number: 134897 List Source: TestAmerica Savannah

List Number: 1

Creator: Jackson, Victor L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Hercules LLC A wholly owned subsidiary of Ashland, LLC Ashland LLC. - EH&S - DS4 5200 Blazer Parkway Dublin, Ohio 43017

April 21, 2017

Mr. Larry Glasheen Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for March 2017

Industrial Wastewater - Discharge Permit No. 002E

Dear Mr. Glasheen:

Attached is the March 2017 Discharge Monitoring Report for the Hercules/Ciba site. The monthly wastewater sample was collected on March 2, 2017. All parameters meet the limits of the wastewater discharge permit, effective April 23, 2007 and renewed April 2012.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

James E. Vondracek, P.E. Principal Remediation Engineer

Jan Hardon

Attachments

cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ

ATTACHMENT 1 DISCHARGE DATA

The laboratory Reporting Limit for Mercury is 0.00020 mg/L.

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
200/111011.	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America	Test America	Test America	Test America	Test America	Wiotoi	Wiotor
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4			
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenois	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit of		mg/1	mg/i	mg/i	9/1	5.0	gpu
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.	110	0.0	0.005	3.0	5.0	5.0	175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	0.29	0.00	0.00	0.70	0.04	7.0	0
Monthly min							
Monthly ave	0.29	0.00	0.00	0.70	0.04	7.1	44,355
Monthly max	0.29	0.00	0.00	0.70	0.04	7.2	74,000
Data points	1.00	1.00	1.00	1.00	1.00	31	31
Date:							50.000
03/01/17						7.2	58,000
03/02/17	0.290	ND	ND	0.70	0.035	7.1	57,000
03/03/17						7.0	49,000
03/04/17						7.2	45,000
03/05/17						7.0	55,000
03/06/17						7.0	46,000
03/07/17						7.0	53,000
03/08/17						7.1	44,000
03/09/17						7.2	45,000
03/10/17						7.0	47,000
03/11/17						7.2	46,000
03/12/17						7.0	42,000
03/13/17						7.0	39,000
03/14/17						7.0	39,000
03/15/17						7.1	41,000
03/16/17						7.0	42,000
03/17/17						7.0	40,000
03/18/17						7.0	41,000
03/19/17						7.0	39,000
03/20/17						7.0	34,000
03/21/17						7.0	35,000
03/22/17						7.2	40,000
03/23/17						7.2	40,000
03/24/17						7.1	39,000
03/25/17						7.2	40,000
03/26/17						7.0	42,000
03/27/17						7.1	0
03/28/17						7.2	46,000
03/29/17			·			7.2	74,000
03/30/17			·			7.2	61,000
03/31/17						7.2	56,000
Monthly Average	e for Chromium						
Concentration	0.29 n	ng/L					
Ave. Flow	44,355 g	ıpd					
Ave. Load	0.11 #						
PERMIT	3.10 #	•					
Notes:	20 //	.,					
ND = Non-Detect	Value reported t	to be below the la	boratory Reporti	na Limit.			
	eporting Limit for L		, ,	J			
The laboratory Re			-				

ATTACHMENT 2 ANALYTICAL DATA



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-136052-1

Client Project/Site: Hercules Glens Falls O&M Monthly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Ath Barrett.

Authorized for release by: 3/15/2017 12:17:50 PM Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

Designee for

Kathryn Smith, Senior Project Manager (912)354-7858

kathy.smith@testamericainc.com

LINKS

Review your project results through

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Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC TestAmerica Job ID: 680-136052-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Qualifiers

Metals

 Qualifier	Qualifier	Descrip	tior
Qualitier	Qualifier	Describ	tior

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity

MDA Minimum detectable activity

EDL Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

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Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-136052-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-136052-1	POTW_03022017	Water	03/02/17 13:15	03/07/17 10:50

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-136052-1

Job ID: 680-136052-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC Project: Hercules Glens Falls O&M Monthly POTW

Report Number: 680-136052-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 03/07/2017; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.1 C.

TOTAL METALS (ICPMS)

Sample POTW_03022017 (680-136052-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 03/08/2017 and analyzed on 03/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_03022017 (680-136052-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 03/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_03022017 (680-136052-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 03/10/2017.

Cyanide, Total recovered high for the MS/MSD of sample POTW_03022017 MS/MSD (680-136052-1) in batch 680-472055.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_03022017 (680-136052-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 03/14/2017.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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TestAmerica Savannah 3/15/2017

Client Sample Results

Client: Ashland LLC

TestAmerica Job ID: 680-136052-1 Project/Site: Hercules Glens Falls O&M Monthly POTW

Client Sample ID: POTW_03022017 Lab Sample ID: 680-136052-1

Date Collected: 03/02/17 13:15 Matrix: Water

Date Received: 03/07/17 10:50

Method: 200.8 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	290		5.0	1.6	ug/L		03/08/17 13:32	03/09/17 22:14	1
Lead	2.5	U	2.5	0.98	ug/L		03/08/17 13:32	03/09/17 22:14	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		03/09/17 08:08	03/09/17 16:12	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.70		0.10	0.025	mg/L		03/10/17 05:56	03/10/17 12:07	10
Phenolics, Total Recoverable	0.035	J	0.050	0.025	mg/L		03/14/17 09:47	03/14/17 12:55	1

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-136052-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-471768/1-A

Matrix: Water

Analysis Batch: 472019

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 471768**

MB MB

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		03/08/17 13:32	03/09/17 21:49	1
Lead	2.5	U	2.5	0.98	ug/L		03/08/17 13:32	03/09/17 21:49	1

Lab Sample ID: LCS 680-471768/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 472019

Analysis Batch: 472019							Prep Batch: 471768
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chromium	100	100		ug/L		100	85 - 115
Lead	500	509		ug/L		102	85 ₋ 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-471842/13-A

Matrix: Water

Analysis Batch: 472174

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 471842

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 0.20 U 0.20 0.080 ug/L 03/09/17 08:08 03/09/17 15:53 Mercury

Lab Sample ID: LCS 680-471842/15-A

Matrix: Water

Analysis Batch: 472174

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 471842

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 2.50 2 46 99 85 - 115 Mercury ug/L

Method: 335.4 - Cyanide, Total

Lab Sample ID: LCS 680-471989/2-A

Matrix: Water

Analysis Batch: 472042

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 471989

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits D Cyanide, Total 0.0501 0.0470 mg/L 94 90 - 110

Lab Sample ID: 680-136052-1 MS

Matrix: Water

Analysis Batch: 472055

Client Sample ID: POTW_03022017

Prep Type: Total/NA **Prep Batch: 471989**

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier %Rec Limits Unit D Cyanide, Total 0.70 0.0501 0.893 4 mg/L 379 90 - 110

Lab Sample ID: 680-136052-1 MSD

Matrix: Water

Analysis Batch: 472055

Client Sample ID: POTW_03022017 Prep Type: Total/NA

Prep Batch: 471989

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 0.70 0.0501 0.934 Cyanide, Total mg/L 461

TestAmerica Savannah

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-136052-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 420.1 - Phenolics, Total Recoverable

Matrix: Water

Analysis Batch: 472472

Phenolics, Total Recoverable

Analyte

Lab Sample ID: MB 680-472329/1-A Client Sample ID: Method Blank Prep Type: Total/NA **Prep Batch: 472329**

MB MB Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed 0.050 U 0.050 0.025 mg/L 03/14/17 09:47 03/14/17 12:47

Lab Sample ID: LCS 680-472329/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Prep Batch: 472329**

Analysis Batch: 472472

Spike LCS LCS Analyte Added Limits Result Qualifier Unit %Rec Phenolics, Total Recoverable 0.100 0.102 mg/L 102 75 - 125

TestAmerica Savannah

QC Association Summary Client: Ashland LLC TestAmerica Job ID: 680-136052-1 Project/Site: Hercules Glens Falls O&M Monthly POTW Metals **Prep Batch: 471768** Lab Sample ID Client Sample ID **Prep Type** Matrix Method Prep Batch POTW_03022017 200.8 680-136052-1 Total/NA Water MB 680-471768/1-A Method Blank Total/NA Water 200.8 LCS 680-471768/2-A Lab Control Sample Total/NA Water 200.8 **Prep Batch: 471842** Lab Sample ID Client Sample ID Method Prep Type Matrix Prep Batch 680-136052-1 POTW 03022017 245.1 Total/NA Water MB 680-471842/13-A Method Blank Total/NA Water 245.1 LCS 680-471842/15-A Lab Control Sample Total/NA Water 245.1 Analysis Batch: 472019 Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 680-136052-1 POTW_03022017 Total/NA 200.8 471768 Water MB 680-471768/1-A 200.8 471768 Method Blank Total/NA Water LCS 680-471768/2-A Lab Control Sample Total/NA Water 200.8 471768 Analysis Batch: 472174 Lab Sample ID Client Sample ID Prep Batch **Prep Type** Matrix Method POTW_03022017 245.1 680-136052-1 Total/NA Water 471842 MB 680-471842/13-A Water Method Blank Total/NA 245.1 471842 LCS 680-471842/15-A Total/NA 245.1 Lab Control Sample Water 471842 General Chemistry **Prep Batch: 471989** Method Lab Sample ID Client Sample ID Prep Type Matrix Prep Batch 680-136052-1 POTW_03022017 Total/NA Water Distill/CN LCS 680-471989/2-A Lab Control Sample Total/NA Water Distill/CN POTW_03022017 680-136052-1 MS Total/NA Water Distill/CN 680-136052-1 MSD POTW_03022017 Total/NA Water Distill/CN Analysis Batch: 472042 Lab Sample ID Client Sample ID **Prep Type** Matrix Method Prep Batch LCS 680-471989/2-A 335.4 Lab Control Sample Total/NA Water 471989 Analysis Batch: 472055 Client Sample ID Lab Sample ID **Prep Type** Matrix Method Prep Batch 335.4 680-136052-1 POTW_03022017 Total/NA Water 471989 680-136052-1 MS POTW_03022017 Total/NA Water 335.4 471989 680-136052-1 MSD POTW_03022017 Total/NA Water 335.4 471989 Prep Batch: 472329

TestAmerica Savannah

3/15/2017

Prep Batch

Prep Batch

472329

Method

Method

420.1

Distill/Phenol

Distill/Phenol

Distill/Phenol

Page 8 of 14

Prep Type

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Matrix

Water

Water

Water

Matrix

Water

Lab Sample ID

680-136052-1

Lab Sample ID

680-136052-1

MB 680-472329/1-A

LCS 680-472329/2-A

Analysis Batch: 472472

Client Sample ID

POTW 03022017

Lab Control Sample

Client Sample ID

POTW 03022017

Method Blank

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls O&M Monthly POTW
TestAmerica Job ID: 680-136052-1

General Chemistry (Continued)

Analysis Batch: 472472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-472329/1-A	Method Blank	Total/NA	Water	420.1	472329
LCS 680-472329/2-A	Lab Control Sample	Total/NA	Water	420.1	472329

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-136052-1

Lab Sample ID: 680-136052-1

Matrix: Water

Client Sample ID: POTW_03022017 Date Collected: 03/02/17 13:15

Date Received: 03/07/17 10:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			471768	03/08/17 13:32	AJR	TAL SAV
Total/NA	Analysis	200.8		1	472019	03/09/17 22:14	BJB	TAL SAV
Total/NA	Prep	245.1			471842	03/09/17 08:08	JKL	TAL SAV
Total/NA	Analysis	245.1		1	472174	03/09/17 16:12	JKL	TAL SAV
Total/NA	Prep	Distill/CN			471989	03/10/17 05:56	DAM	TAL SAV
Total/NA	Analysis	335.4		10	472055	03/10/17 12:07	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			472329	03/14/17 09:47	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	472472	03/14/17 12:55	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Job ID: 680-136052-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Laboratory: TestAmerica Savannah

Client: Ashland LLC

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-17 *
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17 *
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-17
lowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17 *
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-16-9	11-30-17
US Fish & Wildlife	Federal	·	LE058448-0	10-31-17
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program		094	06-30-17
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

 $^{^{\}star}$ Certification renewal pending - certification considered valid.

TestAmerica Savannah

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Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-136052-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Alternate Laboratory Name Location Alternate Laboratory Name Location Anternate Laboratory Name Laboratory N	ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 5102 LaRoche Avenue Savannah, GA 31404	nah Website: www.testamericainc.com Phone: (912) 354-7858 Fax: (912) 352-0165	americainc.com 858 5
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Login Sample Receipt Checklist

Client: Ashland LLC Job Number: 680-136052-1

Login Number: 136052 List Source: TestAmerica Savannah

List Number: 1

Creator: Jackson, Victor L

Creator: Jackson, victor L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Hercules LLC A wholly owned subsidiary of Ashland, LLC Ashland LLC. - EH&S - DS4 5200 Blazer Parkway Dublin, Ohio 43017

July 28, 2017

Mr. Larry Glasheen Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for 2nd Quarter 2017 Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Glasheen:

Attached is the 2nd Quarter 2017 Discharge Monitoring Report for the Hercules/Ciba site. Monthly wastewater samples were collected on the following dates:

- April 10, 2017
- May 2, 2017
- June 6, 2017

All parameters meet the limits of the wastewater discharge permit effective April 23, 2007 which was subsequently renewed in April 2012 and April 2017.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

James E. Vondracek, P.E. Principal Remediation Engineer

Attachments

cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ

ATTACHMENT 1 DISCHARGE DATA

LOCATION	DOTW CC	DOTW CC	DOTW CC	DOTW CC	DOTW CC	DOTW	DOTW
LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
ANALYZED BY:	Sampler Test America	Sampler Test America	Sampler Test America	Sampler Test America	Sampler Test America	Meter	Meter
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH	WCAVVV 420.1		
T KEGEKVED.	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenois	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or		1119/1	шул	mg/i	mg/i	5.0	gpu
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.	110	0.0	0.005	0.0	0.0	0.0	175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.32	0.00	0.00	0.71	0.00	6.9	48,000
Monthly ave	0.32	0.00	0.00	0.71	0.00	7.1	62,400
Monthly max	0.32	0.00	0.00	0.71	0.00	7.3 30	103,000
Data points	l l		I	ı	<u> </u>	30	30
Date: 04/01/17						7.2	E0.000
							52,000
04/02/17 04/03/17						7.3 7.0	66,000
04/03/17						7.0	65,000 63,000
04/04/17							
04/05/17						7.0 7.1	66,000
							60,000
04/07/17 04/08/17						7.1 7.1	103,000
04/08/17						7.1	89,000 87,000
04/09/17	0.320	ND	ND	0.71	ND	7.2	73,000
04/10/17	0.320	IND	IND	0.71	IND	7.1	67,000
04/11/17						7.1	66,000
04/13/17						7.1	64,000
04/14/17						7.1	48,000
04/15/17						7.0	68,000
04/16/17						7.1	59,000
04/17/17						7.0	55,000
04/18/17						7.1	59,000
04/19/17						7.0	51,000
04/20/17						7.0	51,000
04/21/17						6.9	61,000
04/22/17						7.0	54,000
04/23/17						7.1	57,000
04/24/17						7.0	57,000
04/25/17						7.0	58,000
04/26/17						7.0	55,000
04/27/17						6.9	55,000
04/28/17						7.0	59,000
04/29/17						6.9	53,000
04/30/17						7.0	51,000
Monthly Average							
Concentration	0.32 m	g/L					
Ave. Flow	62,400 gp						
Ave. Load	0.17 #/						
PERMIT	3.10 #/	day					
Notes:							

ND = Non-Detect. Value reported to be below the laboratory Reporting Limit.
NS: No Standard. No instantaneous maximum for Total Chromium.
The laboratory Reporting Limit for Lead is 0.0025 mg/L.

The laboratory Reporting Limit for Mercury is 0.00020 mg/L.

The laboratory Reporting Limit for Phenols is 0.050 mg/L.

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
LOOATION.	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America	Test America	Test America	Test America	Test America	WICTO	Wictor
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or		1119/1	1119/1	ilig/i	mg/i	5.0	gpu
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.	110	0.0	0.025	3.0	5.0	3.0	175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.27	0.00	0.00	0.52	0.00	6.7	0
Monthly ave	0.27	0.00	0.00	0.52	0.00	7.0	56,355
Monthly max	0.27 1	0.00	0.00	0.52	0.00	9.0 31	86,000
Data points	ı	1	I	1	I.	31	31
Date:						7.0	F.4.000
05/01/17	0.070	ND	0.004	0.50	NE	7.0	54,000
05/02/17	0.270	ND	0.001	0.52	ND	7.0	55,000
05/03/17						7.1	55,000
05/04/17						7.0	54,000
05/05/17						7.0	59,000
05/06/17						7.0	52,000
05/07/17						9.0	59,000
05/08/17						7.0	65,000
05/09/17						7.1	55,000
05/10/17						7.0	68,000
05/11/17						7.0	55,000
05/12/17						7.0	60,000
05/13/17						7.0	48,000
05/14/17						7.0	66,000
05/15/17						7.0	50,000
05/16/17						7.1	65,000
05/17/17						6.9	50,000
05/18/17						6.9	60,000
05/19/17						6.9	50,000
05/20/17						6.8	0
05/21/17						6.9	86,000
05/22/17						6.8	59,000
05/23/17						7.0	61,000
05/24/17						6.8	59,000
05/25/17						6.9	50,000
05/26/17						6.9	59,000
05/27/17						6.9	59,000
05/28/17						7.0	59,000
05/29/17						7.1	58,000
05/30/17						7.0	61,000
05/31/17						6.7	56,000
Monthly Average							
Concentration	0.27 m						
Ave. Flow	56,355 gr						
Ave. Load	0.13 #/						
PERMIT	3.10 #/	day					
Notes:							
ND = Non-Detect.	Value reported to	o be below the la	boratory Reporti	ng Limit.			
	No instantaneous						
	porting Limit for L						
	porting Limit for P						
	,						

Sampler Sampler Sampler Sampler Sampler Sampler Sampler Sampler Sampler Meter	LOCATION	DOTW OO	DOTAL CO	DOTW OO	DOTW OO	DOTW CO	DOTM	DOTM
NALYZED BY: Test America Test	LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
AB METHOD: EPA 200.8 EPA 200.8 EPA 200.8 EPA 245.1 MCAWW 335.4 MCAWW 420.1 PRESERVED: Acid A Acid A Chilled C	ANALVZED DV:						Meter	Meter
PRESERVED: Acid Acid Chilled								
Chilled Chi						WICAVV VV 420.1		
Total Total Total More More Cannot Phenole Point Units: mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	FRESERVED.					Chillad		
Chromium Lead Mercury Cyanide Phenois Point Point Units: mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l							Compliance	Compliance
Units: mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l							•	
POTM Permit or min	11.26			•				
Daily max			mg/I	mg/I	mg/I	mg/l		gpd
Monthly ave. 0.005 175,000 1								
Compilance Yes		NS	0.8		3.0	5.0	9.0	
Monthly min								
Monthly ave	•							
Monthly max	Monthly min	0.25	0.00	0.00	0.68	0.00	6.8	0
Date	Monthly ave	0.25	0.00	0.00	0.68	0.00	7.0	54,100
Date:	Monthly max	0.25	0.00	0.00	0.68	0.00	7.2	93,000
06/01/17	Data points	1	1	1	1	1	30	30
06/02/17	Date:							
06/02/17	06/01/17						6.8	63,000
6.9 6.000								
06/04/17								,
06/05/17								
OSC OSC ND ND O.880 ND 7.2 64,000 OSC OS								
06/07/17		0.250	ND	ND	0.680	ND		
06/08/17								
06/9/17								
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06/11/17 7.0 56,000 06/12/17 7.0 64,000 06/13/17 7.0 51,000 06/14/17 7.0 65,000 06/15/17 7.0 52,000 06/16/17 6.9 59,000 06/17/17 6.9 57,000 06/19/17 6.9 52,000 06/20/17 6.9 34,000 06/21/17 6.9 0 06/22/17 6.9 0 06/22/17 6.9 0 06/22/17 6.9 0 06/22/17 6.9 0 06/22/17 6.9 0 06/22/17 6.9 6,0 06/22/17 6.9 6,0 06/22/17 6.9 6,0 06/22/17 6.9 6,0 06/22/17 6.9 6,0 06/22/17 6.9 52,000 06/22/17 6.9 52,000 06/22/17 6.9 52,000 06/22/17 6.9 52,000 06/29/17 6.9 5								,
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06/14/17 7.0 65,000 06/15/17 7.0 52,000 06/15/17 6.9 59,000 06/17/17 6.9 57,000 06/18/17 6.9 52,000 06/19/17 6.8 61,000 06/20/17 6.9 34,000 06/21/17 6.9 0 06/22/17 6.9 0 06/22/17 6.9 0 06/23/17 6.9 68,000 06/25/17 6.9 68,000 06/25/17 6.9 68,000 06/25/17 6.9 69,000 06/28/17 7.0 65,000 06/29/17 6.9 52,000 06/29/17 6.9 52,000 06/30/17 7.0 64,000 Wonthly Average for Chromium Concentration 0.25 mg/L Ave. Flow 54,100 gpd Ave. Flow 54,100 gpd Ave. Load 0.11 #/day PERMIT 3.10 #/day Notes: Notes: ND = Non-Detect. Value reported to b								
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06/23/17 6.9 0 0 0 0 0 0 0 0 0								
06/24/17 7.0 93,000 06/25/17 6.9 68,000 06/26/17 7.0 65,000 06/27/17 6.9 52,000 06/29/17 6.9 52,000 06/30/17 6.9 52,000 Monthly Average for Chromium Concentration 0.25 mg/L Ave. Flow 54,100 gpd Ave. Load 0.11 #/day PERMIT 3.10 #/day Notes: ND = Non-Detect. Value reported to be below the laboratory Reporting Limit. NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L.								
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Concentration 0.25 mg/L Ave. Flow 54,100 gpd Ave. Load 0.11 #/day PERMIT 3.10 #/day Notes: ND = Non-Detect. Value reported to be below the laboratory Reporting Limit. NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L.		for Chromium					7.0	04,000
Ave. Flow 54,100 gpd Ave. Load 0.11 #/day PERMIT 3.10 #/day Notes: ND = Non-Detect. Value reported to be below the laboratory Reporting Limit. NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L.			ng/l					
Ave. Load O.11 #/day PERMIT 3.10 #/day Notes: ND = Non-Detect. Value reported to be below the laboratory Reporting Limit. NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L.			•					
PERMIT 3.10 #/day Notes: ND = Non-Detect. Value reported to be below the laboratory Reporting Limit. NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L.		. 01						
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NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L.				–				
The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L.					ng Limit.			
The laboratory Reporting Limit for Mercury is 0.00020 mg/L.								
The laboratory Reporting Limit for Phenols is 0.050 mg/L.								
	The laboratory Re	porting Limit for P	henols is 0.050 r	ng/L.				

ATTACHMENT 2 ANALYTICAL DATA

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-137364-1

Client Project/Site: Hercules Glens Falls O&M Monthly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Adn Barnott.

Authorized for release by: 4/17/2017 3:38:15 PM

Eddie Barnett, Project Manager I

(912)354-7858

eddie.barnett@testamericainc.com

Designee for

Kathryn Smith, Manager of Project Management (912)354-7858

kathy.smith@testamericainc.com

Review your project

results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

Qualifiers

Metals

Qualifier **Qualifier Description**

Ū Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
B.1 E	

Dil Fac **Dilution Factor**

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision level concentration MDA Minimum detectable activity **EDL Estimated Detection Limit** MDC Minimum detectable concentration

MDL Method Detection Limit ML Minimum Level (Dioxin)

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC **Quality Control** RER Relative error ratio

RLReporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TestAmerica Savannah

4/17/2017

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-137364-1	POTW_04102017	Water	04/10/17 11:45	04/12/17 09:15

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

Job ID: 680-137364-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC Project: Hercules Glens Falls O&M Monthly POTW

Report Number: 680-137364-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 04/12/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.4 C.

TOTAL METALS (ICPMS)

Sample POTW_04102017 (680-137364-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared and analyzed on 04/13/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_04102017 (680-137364-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 04/13/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_04102017 (680-137364-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 04/13/2017.

Sample POTW_04102017 (680-137364-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_04102017 (680-137364-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 04/17/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Savannah 4/17/2017

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Client Sample Results

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

Lab Sample ID: 680-137364-1

Matrix: Water

Client Sample ID: POTW 04102017 Date Collected: 04/10/17 11:45

Date Received: 04/12/17 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chromium	320		5.0	1.6	ug/L		04/13/17 10:59	04/13/17 18:58	1
Lead	2.5	U	2.5	0.98	ug/L		04/13/17 10:59	04/13/17 18:58	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ua/l		04/13/17 08:37	04/13/17 16:52	

General Chemistry Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.71	0.10	0.025	mg/L		04/13/17 06:30	04/13/17 12:14	10
Phenolics, Total Recoverable	0.050 U	0.050	0.025	mg/L		04/17/17 09:47	04/17/17 10:57	1

TestAmerica Job ID: 680-137364-1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 475836

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-475884/1-A

Matrix: Water

Client: Ashland LLC

Analysis Batch: 476022

Client Sample ID: Method Blank Prep Type: Total/NA **Prep Batch: 475884** MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 5.0 Chromium 5.0 U 1.6 ug/L 04/13/17 10:59 04/13/17 18:17 2.5 U 2.5 0.98 ug/L 04/13/17 10:59 04/13/17 18:17 Lead

Lab Sample ID: LCS 680-475884/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 476022 Prep Batch: 475884** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits ug/L Chromium 100 105 105 85 - 115 500 514 ug/L 103 Lead 85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-475836/1-A

Matrix: Water

Analysis Batch: 476044

MB MB

Result Qualifier RL MDL Unit Analyte Prepared Analyzed Dil Fac 0.20 U 0.20 0.080 ug/L 04/13/17 08:37 04/13/17 16:35 Mercury

Lab Sample ID: LCS 680-475836/3-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 476044 **Prep Batch: 475836** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 2.45 ug/L 98 85 - 115

Lab Sample ID: 680-137364-1 MS Client Sample ID: POTW 04102017 **Matrix: Water** Prep Type: Total/NA **Prep Batch: 475836** Analysis Batch: 476044 Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 0.20 U 1.00 98 0.979 ug/L 70 - 130 Mercury

Lab Sample ID: 680-137364-1 MSD Client Sample ID: POTW_04102017 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 476044 **Prep Batch: 475836** Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Mercury 0.20 U 1.00 0.976 ug/L 98 70 - 130 n 20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-475822/1-A

Matrix: Water

Analysis Batch: 475914

Prep Batch: 475822 MB MB Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Cyanide, Total 0.010 U 0.010 04/13/17 06:30 04/13/17 10:56 0.0025 mg/L

TestAmerica Savannah

Prep Type: Total/NA

Client Sample ID: Method Blank

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-137364-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Lab Sample ID: LCS 680-475822/2-A Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA Analysis Batch: 475914 Prep Batch: 475822

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits

 Analyte
 Added
 Result Qualifier
 Unit
 D
 %Rec
 Limits

 Cyanide, Total
 0.0500
 0.0475
 mg/L
 95
 90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-476194/1-A Client Sample ID: Method Blank
Matrix: Water Prep Type: Total/NA

Analysis Batch: 476248 Prep Batch: 476194

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Phenolics, Total Recoverable
 0.050
 U
 0.050
 0.025
 mg/L
 04/17/17 09:47
 04/17/17 10:45
 1

Lab Sample ID: LCS 680-476194/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 476248

Prep Batch: 476194

Spike LCS LCS %Rec.

AnalyteAddedResultQualifierUnitD%RecLimitsPhenolics, Total Recoverable0.1000.115mg/L11575 - 125

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QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

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Pre	p Batc	h: 47	5836
	p Date		0000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	245.1	
MB 680-475836/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-475836/3-A	Lab Control Sample	Total/NA	Water	245.1	
680-137364-1 MS	POTW_04102017	Total/NA	Water	245.1	
680-137364-1 MSD	POTW_04102017	Total/NA	Water	245.1	

Prep Batch: 475884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	200.8	
MB 680-475884/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-475884/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 476022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	200.8	475884
MB 680-475884/1-A	Method Blank	Total/NA	Water	200.8	475884
LCS 680-475884/2-A	Lab Control Sample	Total/NA	Water	200.8	475884

Analysis Batch: 476044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	245.1	475836
MB 680-475836/1-A	Method Blank	Total/NA	Water	245.1	475836
LCS 680-475836/3-A	Lab Control Sample	Total/NA	Water	245.1	475836
680-137364-1 MS	POTW_04102017	Total/NA	Water	245.1	475836
680-137364-1 MSD	POTW_04102017	Total/NA	Water	245.1	475836

General Chemistry

Prep Batch: 475822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	Distill/CN	
MB 680-475822/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-475822/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 475914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-475822/1-A	Method Blank	Total/NA	Water	335.4	475822
LCS 680-475822/2-A	Lab Control Sample	Total/NA	Water	335.4	475822

Analysis Batch: 475933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	335.4	475822

Prep Batch: 476194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	Distill/Phenol	
MB 680-476194/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-476194/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

TestAmerica Savannah

4/17/2017

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QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

General Chemistry (Continued)

Analysis Batch: 476248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-137364-1	POTW_04102017	Total/NA	Water	420.1	476194
MB 680-476194/1-A	Method Blank	Total/NA	Water	420.1	476194
LCS 680-476194/2-A	Lab Control Sample	Total/NA	Water	420.1	476194

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

Client Sample ID: POTW 04102017

TestAmerica Job ID: 680-137364-1

Lab Sample ID: 680-137364-1

Matrix: Water

Date Collected: 04/10/17 11:45 Date Received: 04/12/17 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			475884	04/13/17 10:59	AJR	TAL SAV
Total/NA	Analysis	200.8		1	476022	04/13/17 18:58	BJB	TAL SAV
Total/NA	Prep	245.1			475836	04/13/17 08:37	JKL	TAL SAV
Total/NA	Analysis	245.1		1	476044	04/13/17 16:52	JKL	TAL SAV
Total/NA	Prep	Distill/CN			475822	04/13/17 06:30	DAM	TAL SAV
Total/NA	Analysis	335.4		10	475933	04/13/17 12:14	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			476194	04/17/17 09:47	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	476248	04/17/17 10:57	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC TestAmeric

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Dat
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-17 *
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17 *
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17 *
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-17
ndiana	State Program	5	N/A	06-30-17
lowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-17
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17 *
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17 *
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-16-9	11-30-17
US Fish & Wildlife	Federal	Ü	LE058448-0	10-31-17
USDA	Federal		SAV 3-04	06-11-17 *
Virginia	NELAP	3	460161	06-14-17 *
Washington	State Program	10	C805	06-10-17 *
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia (DVV) West Virginia DEP	State Program	3	094	06-30-17
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-31-17

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

4/17/2017

TestAmerica Savannah

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Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-137364-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TestAmerica Laboratories, Inc. TAL-8210 (0713) 915 70 Sample Specific Notes Sample Disposal (A fee may be assessed if samples are retained longer than 1 month For Lab Use Only: Pate/Time: 9.12-17 Job / SDG No.: Walk-in Client ab Sampling: Therm ID No 5 1-8-1 Date/Time Sampler: COC No: Archive for 680-137364 Chain of Custody Сотрапу Date: 4/10/ X m0)'0 Disposal by Lab Why Vol Carrier: Other; Return to Client Site Contact: Received by Received in Oury ab Contae AW 8,000 Perform MS/MSD (Y/N) Filtered Sample (Y / N) NPDES Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the 4/0/717 # of Cont. Pater Time, 3 WORKING DAYS Matrix Mak Floor Analysis Turnaround Time MO Type (C=Comp, G=Grab) Sample Regulatory Program: Project Manager: פרעבירו TAT if different from Below 2 2 weeks 1 week 2 days 480501-Albany ggw sattation Halbany Sample CALENDAR DAYS Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1145 Custody Seal No Tel/Fax: 60 Antea Poison B Sample Date Company Monthly Special Instructions/QC Requirements & Comments: Comments Section if the lab is to dispose of the sample Sollater MOTIN Sample Identification SOM Client Contact

TestAmerica Atlanta

TestAmerica

192033

Chain of Custody Record

5500 AcDonough Orive Suite C-10

Morcross, 68 30053 Phone: 678,966,9991

Company Name:

City/State/Zip:

Phone: Fax

Address:

Project Name: 6/295 Fc

Site: AShisaw Po# Po# 4502471936 Ashland 6 leas

0410201

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Possible Hazard Identification:

Non-Hazard

Custody Seals Intact

Relinquished by

4/17/2017

Client: Ashland LLC Job Number: 680-137364-1

Login Number: 137364 List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

Creator: Flanagan, Naomi V		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-138368-1

Client Project/Site: Hercules Glens Falls O&M Monthly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Authorized for release by: 5/10/2017 1:49:48 PM

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC TestAmerica Job ID: 680-138368-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

<u></u>		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DeD/DOE)	

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDI	Method Detection Limit

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

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PQL	Practical Quantitation Limit

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

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Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-138368-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-138368-1	POTW_05022017	Water	05/02/17 10:30	05/04/17 09:00

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-138368-1

Job ID: 680-138368-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC Project: Hercules Glens Falls O&M Monthly POTW

Report Number: 680-138368-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 05/04/2017; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

TOTAL METALS (ICPMS)

Sample POTW_05022017 (680-138368-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 05/06/2017 and analyzed on 05/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_05022017 (680-138368-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 05/10/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_05022017 (680-138368-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 05/08/2017.

Sample POTW_05022017 (680-138368-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_05022017 (680-138368-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 05/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client Sample Results

Client: Ashland LLC

Client Sample ID: POTW_05022017

Project/Site: Hercules Glens Falls O&M Monthly POTW

Lab Sample ID: 680-138368-1

TestAmerica Job ID: 680-138368-1

Matrix: Water

Date Collected: 05/02/17 10:30 Date Received: 05/04/17 09:00

Method: 200.8 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	270		5.0	1.6	ug/L		05/06/17 14:06	05/09/17 01:17	1
Lead	2.5	U	2.5	0.98	ug/L		05/06/17 14:06	05/09/17 01:17	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	J	0.20	0.080	ug/L		05/10/17 07:17	05/10/17 12:06	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.52		0.10	0.025	mg/L		05/08/17 06:08	05/08/17 11:44	10
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		05/09/17 10:27	05/09/17 11:24	1

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Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-478847/1-A

Matrix: Water

Analysis Batch: 479072

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 478847

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L			05/06/17 14:06	05/09/17 00:20	1
Lead	2.5	U	2.5	0.98	ug/L			05/06/17 14:06	05/09/17 00:20	1

Lab Sample ID: LCS 680-478847/2-A

Matrix: Water

Analysis Batch: 479072

Client Sample II	D: Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 478847

Allalysis Daton. 473072							пср	Duton. 4	10041
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium	 100	100		ug/L		100	85 - 115		
Lead	500	500		ug/L		100	85 _ 115		
-									

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-479240/13-A

Matrix: Water

Analysis Batch: 479346

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 479240

мв мв

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.20 U 0.20 0.080 ug/L 05/10/17 07:17 05/10/17 11:40 Mercury

Lab Sample ID: LCS 680-479240/15-A

Matrix: Water

Analysis Batch: 479346

Client	Samp	le ID:	Lab C	Control	Sample
--------	------	--------	-------	---------	--------

Prep Type: Total/NA **Prep Batch: 479240**

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 2.41 ug/L 96 85 _ 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-478895/1-A

Matrix: Water

Analysis Batch: 478971

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 478895

Result Qualifier RL Analyte MDL Unit Prepared Analyzed Dil Fac Cyanide, Total 0.010 U 0.010 0.0025 mg/L 05/08/17 06:08 05/08/17 10:59

Lab Sample ID: LCS 680-478895/2-A

Matrix: Water

Analysis Batch: 478971

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 478895

	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier Un	it D	%Rec	Limits
Cyanide, Total	0.0500	0.0515	mg	/L	103	90 - 110

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-138368-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-479120/1-A	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 479163	Prep Batch: 479120

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		05/09/17 10:27	05/09/17 11:18	1

Lab Sample ID: LCS 680-479120/2-A

Matrix: Water

Analysis Batch: 479163

Spike

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Prep Batch: 479120

Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Phenolics, Total Recoverable
 0.100
 0.111
 mg/L
 111
 75 - 125

5/10/2017

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls O&M Monthly POTW
TestAmerica Job ID: 680-138368-1

Metals

Pre	р Ва	tch:	478	847
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	200.8	
MB 680-478847/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-478847/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 479072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	200.8	478847
MB 680-478847/1-A	Method Blank	Total/NA	Water	200.8	478847
LCS 680-478847/2-A	Lab Control Sample	Total/NA	Water	200.8	478847

Prep Batch: 479240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	245.1	
MB 680-479240/13-A	Method Blank	Total/NA	Water	245.1	
LCS 680-479240/15-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 479346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	245.1	479240
MB 680-479240/13-A	Method Blank	Total/NA	Water	245.1	479240
LCS 680-479240/15-A	Lab Control Sample	Total/NA	Water	245.1	479240

General Chemistry

Prep Batch: 478895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	Distill/CN	
MB 680-478895/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-478895/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 478971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	335.4	478895
MB 680-478895/1-A	Method Blank	Total/NA	Water	335.4	478895
LCS 680-478895/2-A	Lab Control Sample	Total/NA	Water	335.4	478895

Prep Batch: 479120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	Distill/Phenol	
MB 680-479120/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-479120/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 479163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-138368-1	POTW_05022017	Total/NA	Water	420.1	479120
MB 680-479120/1-A	Method Blank	Total/NA	Water	420.1	479120
LCS 680-479120/2-A	Lab Control Sample	Total/NA	Water	420.1	479120

TestAmerica Savannah

5/10/2017

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-138368-1

Client Sample ID: POTW_05022017 Lab Sample ID: 680-138368-1

Date Collected: 05/02/17 10:30 Matrix: Water

Date Received: 05/04/17 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			478847	05/06/17 14:06	AJR	TAL SAV
Total/NA	Analysis	200.8		1	479072	05/09/17 01:17	BWR	TAL SAV
Total/NA	Prep	245.1			479240	05/10/17 07:17	JKL	TAL SAV
Total/NA	Analysis	245.1		1	479346	05/10/17 12:06	JKL	TAL SAV
Total/NA	Prep	Distill/CN			478895	05/08/17 06:08	DAM	TAL SAV
Total/NA	Analysis	335.4		10	478971	05/08/17 11:44	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			479120	05/09/17 10:27	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	479163	05/09/17 11:24	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 680-138368-1 Project/Site: Hercules Glens Falls O&M Monthly POTW

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-17 *
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-17 *
Florida	NELAP	4	E87052	06-30-17 *
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	N/A	06-30-17 *
Georgia	State Program	4	803	06-30-17 *
Guam	State Program	9	15-005r	04-16-17 *
Hawaii	State Program	9	N/A	06-30-17 *
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-17 *
lowa	State Program	7	353	06-30-17 *
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-17 *
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
Louisiana	NELAP	6	30690	06-30-17 *
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-17 *
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-17 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17 *
New Jersey	NELAP	2	GA769	06-30-17 *
New Mexico	State Program	6	N/A	06-30-17 *
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17 *
Puerto Rico South Carolina	State Program	2 4	GA00006 98001	12-31-17 06-30-17 *
	State Program State Program	4	TN02961	06-30-17 *
Tennessee				
Texas	NELAP	6	T104704185-16-9	11-30-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		SAV 3-04	06-11-17 *
Virginia	NELAP	3	460161	06-14-17 *
Washington	State Program	10	C805	06-10-17 *
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-17 *
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Savannah

5/10/2017

Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-138368-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TAL8240-680 (1008) NUMBER OF COOLERS SUBMITTED PER SHIPMENT: OF REMARKS EXPEDITED REPORT DELIVERY (SURCHARGE) Website: www.testamericainc.com STANDARD REPORT DELIVERY DATE DUE DATE DUE DATE DATE Phone: (912) 354-7858 PAGE Fax: (912) 352-0165 680-138368 Chain of Custody RELINQUISHED BY: (SIGNATURE) Phone: Fax: RECEIVED BY: (SIGNATURE) NUMBER OF CONTAINERS SUBMITTED 9 REQUIRED ANALYSIS LABORATORY REMARKS Alternate Laboratory Name/Location 2.3 1800 TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 saluni acid acid acid 513117 DATE SAVANNAH LOG NO. Jry.V Nisk LABORATORY USE ONLY MATRIX CUSTODY SEAL NO. ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD RELINGUISHED BY: (SIGNATURE)
Resinguished
Devic Bushock 25.8E RECEIVED BY: (SIGNATURE) (STATE) CLIENTADDRESS 5788 Wolkewaters Parlyway and My CUSTODY INTACT Anter Gray Bryan, Relogantergray, con CONTRACT NO CLIENT FAX YES SAMPLE IDENTIFICATION 315 -949-7033 1700 05022017 900 Ashland 2-4-17 PROJECT NO. P.O. NUMBER 111215 THE LEADER IN ENVIRONMENTAL TESTING **TestAmerico** DATE COMPANY CONTRACTING THIS WORK (if applicable) 2102 Dade | Bubalah 102 RECEIVED FOR LABORATORY BY: RETS TAL (LAB) PROJECT MANAGER Davol Bubrich 1036 TIME PROJECT REFERENCE SNUN SAMPLE CLIENT (SIŢE) PM CLIENT NAME DATE 3 5 Page 12 of 13

108710

Serial Number

480501-Albany

Login Sample Receipt Checklist

Client: Ashland LLC Job Number: 680-138368-1

Login Number: 138368 List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

dioactivity wasn't checked or is = background as measured by a survey er. cooler's custody seal, if present, is intact. True pole custody seals, if present, are intact. True cooler or samples do not appear to have been compromised or pered with. poles were received on ice. True poler Temperature is acceptable. True C is present. True True</th
Inple custody seals, if present, are intact. Incomplete custody seals, if present, are intact. Incomplete cooler or samples do not appear to have been compromised or pered with. Inples were received on ice. Incomplete Temperature is acceptable. Incomplete Temperature is recorded. Incomplete True True C is present. True
cooler or samples do not appear to have been compromised or pered with. Inples were received on ice. True In true C is present. True
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oler Temperature is acceptable. True oler Temperature is recorded. True C is present. True
oler Temperature is recorded. True C is present. True
C is present. True
·
C is filled out in ink and legible.
C is filled out with all pertinent information.
ne Field Sampler's name present on COC?
ere are no discrepancies between the containers received and the COC. True
nples are received within Holding Time (excluding tests with immediate True
nple containers have legible labels.
ntainers are not broken or leaking.
nple collection date/times are provided.
propriate sample containers are used.
nple bottles are completely filled. True
nple Preservation Verified.
re is sufficient vol. for all requested analyses, incl. any requested MSDs
ntainers requiring zero headspace have no headspace or bubble is N/A nm (1/4").
tiphasic samples are not present. True
nples do not require splitting or compositing.
sidual Chlorine Checked. N/A

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-139680-1

Client Project/Site: Hercules Glens Falls O&M Quarterly

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek



Authorized for release by: 6/14/2017 3:22:12 PM Jannel Franklin, Project Manager I (732)593-2551 jannel.franklin@testamericainc.com

Designee for

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

-----LINKS -----**Review your project** results through Total Access **Have a Question?**

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-139680-1

Qualifiers

Metals

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)
MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-139680-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-139680-1	POTW-20170606	Water	06/06/17 14:30	06/08/17 09:23

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-139680-1

Job ID: 680-139680-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M Quarterly

Report Number: 680-139680-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 6/8/2017 9:23 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

TOTAL METALS (ICPMS)

Sample POTW-20170606 (680-139680-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 06/13/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW-20170606 (680-139680-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 06/12/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW-20170606 (680-139680-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The samples were prepared and analyzed on 06/12/2017.

Cyanide, Total exceeded the RPD limit for the duplicate of sample 680-139627-1. Refer to the QC report for details.

Sample POTW-20170606 (680-139680-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW-20170606 (680-139680-1) was analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 06/12/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client Sample Results

Client: Ashland LLC

Analyte

Cyanide, Total

Phenolics, Total Recoverable

Project/Site: Hercules Glens Falls O&M Quarterly

Client Sample ID: POTW-20170606

TestAmerica Job ID: 680-139680-1

Lab Sample ID: 680-139680-1

Prepared

06/12/17 05:17 06/12/17 11:36

06/12/17 12:11 06/12/17 13:52

Matrix: Water

Analyzed

Date Collected: 06/06/17 14:30 Date Received: 06/08/17 09:23

250		5.0	1.6	ua/l		00/40/47 40:47		
o			1.0	ug/L		06/13/17 10:17	06/13/17 22:04	1
2.5 L	J	2.5	0.98	ug/L		06/13/17 10:17	06/13/17 22:04	1
 14 6	O !!£!	DI	MDI	11:4	ь.	Duamanad	Amahasad	Dil Faa
 					— –			Dil Fac
	Result	45.1 - Mercury (CVAA) Result Qualifier 0.20 U	Result Qualifier RL	Result Qualifier RL MDL	Result Qualifier RL MDL Unit	Result Qualifier RL MDL Unit D	Result Qualifier RL MDL Unit D Prepared	Result Qualifier RL MDL Unit D Prepared Analyzed

RL

0.10

0.050

MDL Unit

0.025 mg/L

0.025 mg/L

Result Qualifier

0.68

0.050 U

Dil Fac

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Client: Ashland LLC

TestAmerica Job ID: 680-139680-1

06/13/17 10:17 06/13/17 21:06

Project/Site: Hercules Glens Falls O&M Quarterly

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-483682/1-A **Matrix: Water**

Analysis Batch: 483916

Analyte

Lead

Chromium

Client Sample ID: Method Blank Prep Type: Total/NA **Prep Batch: 483682**

ug/L

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed 5.0 5.0 U 1.6 ug/L 06/13/17 10:17 06/13/17 21:06

0.98 ug/L

Lab Sample ID: LCS 680-483682/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 483916 Prep Batch: 483682** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chromium 100 107 ug/L 107 85 - 115 500 498 ug/L Lead 100 85 - 115

2.5

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-483464/1-A

Matrix: Water

Analysis Batch: 483684

MB MB

0.20 U

2.5 U

Result Qualifier RL MDL Unit Analyte Prepared Analyzed Dil Fac 0.20 U 0.20 0.080 ug/L 06/12/17 09:59 06/12/17 16:54 Mercury

Lab Sample ID: LCS 680-483464/3-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 483684 **Prep Batch: 483464** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 2.51 ug/L 100 85 - 115

Lab Sample ID: 680-139680-1 MS Client Sample ID: POTW-20170606 **Matrix: Water** Prep Type: Total/NA **Prep Batch: 483464** Analysis Batch: 483684 Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

1.03

1.00

Lab Sample ID: 680-139680-1 MSD Client Sample ID: POTW-20170606 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 483684 **Prep Batch: 483464** Sample Sample Spike MSD MSD %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits **RPD** Mercury 0.20 U 1.00 1.00 ug/L 100

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-483414/1-A

Matrix: Water

Mercury

Analysis Batch: 483516

Prep Batch: 483414 MB MB Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Cyanide, Total 0.010 U 0.010 06/12/17 05:17 06/12/17 10:47 0.0025 mg/L

Prep Type: Total/NA

Page 6 of 14

Dil Fac

70 - 130

Client Sample ID: Method Blank

103

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 483464

RPD I imit

70 - 130 20

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-139680-1

Project/Site: Hercules Glens Falls O&M Quarterly

Lab Sample ID: LCS 680-483414/2-A Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA
Analysis Batch: 483516 Prep Batch: 483414

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits

Analyte Added Result Qualifier Unit D %Rec Limits

Cyanide, Total 0.0500 0.0516 mg/L 103 90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-483520/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Analysis Batch: 483569 Prep Batch: 483520

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Phenolics, Total Recoverable
 0.050
 U
 0.050
 0.025
 mg/L
 06/12/17 12:11
 06/12/17 13:59
 1

Lab Sample ID: LCS 680-483520/2-A

Client Sample ID: Lab Control Sample
Matrix: Water

Prep Type: Total/NA

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QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-139680-1

Metals

Prep	Batch	: 483464
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	245.1	
MB 680-483464/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-483464/3-A	Lab Control Sample	Total/NA	Water	245.1	
680-139680-1 MS	POTW-20170606	Total/NA	Water	245.1	
680-139680-1 MSD	POTW-20170606	Total/NA	Water	245.1	

Prep Batch: 483682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	200.8	
MB 680-483682/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-483682/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 483684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	245.1	483464
MB 680-483464/1-A	Method Blank	Total/NA	Water	245.1	483464
LCS 680-483464/3-A	Lab Control Sample	Total/NA	Water	245.1	483464
680-139680-1 MS	POTW-20170606	Total/NA	Water	245.1	483464
680-139680-1 MSD	POTW-20170606	Total/NA	Water	245.1	483464

Analysis Batch: 483916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	200.8	483682
MB 680-483682/1-A	Method Blank	Total/NA	Water	200.8	483682
LCS 680-483682/2-A	Lab Control Sample	Total/NA	Water	200.8	483682

General Chemistry

Prep Batch: 483414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	Distill/CN	
MB 680-483414/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-483414/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 483516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	335.4	483414
MB 680-483414/1-A	Method Blank	Total/NA	Water	335.4	483414
LCS 680-483414/2-A	Lab Control Sample	Total/NA	Water	335.4	483414

Prep Batch: 483520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	Distill/Phenol	
MB 680-483520/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-483520/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 483569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-139680-1	POTW-20170606	Total/NA	Water	420.1	483520
MB 680-483520/1-A	Method Blank	Total/NA	Water	420.1	483520

TestAmerica Savannah

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QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-139680-1

General Chemistry (Continued)

Analysis Batch: 483569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-483520/2-A	Lab Control Sample	Total/NA	Water	420.1	483520

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-139680-1

Lab Sample ID: 680-139680-1

Matrix: Water

Client Sample ID: POTW-20170606 Date Collected: 06/06/17 14:30

Date Received: 06/08/17 09:23

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	200.8			483682	06/13/17 10:17	AJR	TAL SAV	
Total/NA	Analysis	200.8		1	483916	06/13/17 22:04	BJB	TAL SAV	
Total/NA	Prep	245.1			483464	06/12/17 09:59	JKL	TAL SAV	
Total/NA	Analysis	245.1		1	483684	06/12/17 17:10	JKL	TAL SAV	
Total/NA	Prep	Distill/CN			483414	06/12/17 05:17	DAM	TAL SAV	
Total/NA	Analysis	335.4		10	483516	06/12/17 11:36	DAM	TAL SAV	
Total/NA	Prep	Distill/Phenol			483520	06/12/17 12:11	CFJ	TAL SAV	
Total/NA	Analysis	420.1		1	483569	06/12/17 13:52	CFJ	TAL SAV	

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 680-139680-1

Project/Site: Hercules Glens Falls O&M Quarterly

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program AFCEE	EPA Region	Identification Number SAVLAB	Expiration Date
Alabama	State Program	4	41450	06-30-17 *
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-17 *
Florida	NELAP	4	E87052	06-30-17 *
		4	N/A	06-12-18
GA Dept. of Agriculture	State Program	4	N/A	06-30-17 *
Georgia	State Program	4	803	06-30-17
Georgia	State Program			
Guam	State Program	9	15-005r	04-16-17 *
Hawaii	State Program	9	N/A	06-30-17 *
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-17 *
lowa	State Program	7	353	06-30-17 *
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-17 *
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
Louisiana	NELAP	6	30690	06-30-17 *
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-17 *
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-17 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17 *
New Jersey	NELAP	2	GA769	06-30-17 *
New Mexico	State Program	6	N/A	06-30-17 *
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-17 *
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17 *
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-17 *
Texas	NELAP	6	T104704185-16-9	11-30-17
US Fish & Wildlife	Federal	O	LE058448-0	10-31-17
USDA	Federal		SAV 3-04	06-11-17 *
Virginia	NELAP	3	460161	
•				06-14-17 *
Washington	State Program	10	C805	06-10-17 *
West Virginia (DW)	State Program	3	9950C	12-31-17
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

6/14/2017

TestAmerica Savannah

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-139680-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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6 8 17 0923 barrett Low Sample Specific Notes: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) For Lab Use Only 6-6-17 Job / SDG No.: .ab Sampling: Walk-in Client: ō Therm ID No Date/Time: Date/Time: COC No: Archive for Company: Company: SA Site Contact: Brun Arbbone Date: 6/6/ Lab Contact Sm H Chrone (10 Carrier: C): Obs'd o dale ved in Laboratory by: Return to Client Received by: Received by 8:00E 2 Perform MS / MSD (Y / N) Date/Time: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the # of Cont. 11/10/115 Date/Time WORKING DAYS Matrix Wetch Project Manager: Bryan Reles Tel/Fax: 315-949 -7035 Analysis Turnaround Time Type (C=Comp, G=Grab) Sample TAT if different from Below 2 weeks 1 week 2 days I day Sample CALENDAR DAYS 1430 Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Custody Seal No. Poison B Company: Sample Company: U/1/9 Company: HIES! Special Instructions/QC Requirements & Comments: Comments Section if the lab is to dispose of the sample 1 mar Project Name: 6 cns Falls POTW Monthly Lalls Sample Identification Company Name: Ante Crond 680-139680 Chain of Custody 000 Client Contact City/State/Zip: 34/2/wsc. Possible Hazard Identification: POT W_20170606 brns Custody Seals Intack Site: Ashland 2/2017 Relinquished by: 8 elinquished by Non-Hazard City/State/Zip: #0d Fax: Page 13 of 1

TestAmerica Laboratories, Inc.

TestAmerica

193870

Chain of Custody Record

Other:

RCRA

NPDES

MO

Regulatory Program:

Fax:

Savannah, 68 31404 Phone: 912.354.7858

68404 Clark Bany

TestAmerica Savannah

5102 LaRoche Avenue

TAL-8210 (0713)

Client: Ashland LLC Job Number: 680-139680-1

Login Number: 139680 List Source: TestAmerica Savannah

List Number: 1

Creator: Chamberlain, Kim A

oroaton onamonam, tam A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Hercules LLC A wholly owned subsidiary of Ashland, LLC Ashland LLC. - EH&S - DS4 5200 Blazer Parkway Dublin, Ohio 43017

October 12, 2017

Mr. Larry Glasheen Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for 3rd Quarter 2017 Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Glasheen:

Attached is the 3rd Quarter 2017 Discharge Monitoring Report for the Hercules/Ciba site. Monthly wastewater samples were collected on the following dates:

- July 3, 2017
- August 1, 2017
- September 5, 2017

All parameters meet the limits of the wastewater discharge permit effective April 23, 2007 which was subsequently renewed in April 2012 and April 2017.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

James E. Vondracek, P.E. Principal Remediation Engineer

Attachments

cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ

ATTACHMENT 1 DISCHARGE DATA

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
LOOATION.	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:		Test America	Test America	Test America	Test America	Wictor	Wictor
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH	WO7 WW 420.1		
TRECEITAED.	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or		IIIg/I	mg/i	IIIg/I	IIIg/I		gpu
Daily max.	NS	0.8	0.025	3.0	5.0	5.0 9.0	350,000
Monthly ave.	INO	0.6	0.025	3.0	5.0	9.0	350,000 175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.24	0.00	0.00	#N/A	#N/A	6.7	52,000
Monthly ave	0.24	0.00	0.00	0.91	0.00	6.9	65,968
Monthly max	0.24	0.00	0.00	0.91	0.00	7.1	117,000
Data points	1	1	1	1	1	31	31
Date:							
07/01/17						6.8	62,000
07/02/17	<u> </u>					7.1	117,000
07/03/17	0.240	ND	ND	0.91	ND	7.0	102,000
07/04/17						7.0	92,000
07/05/17						6.9	76,000
07/06/17						6.9	71,000
07/07/17						7.0	72,000
07/08/17						6.9	69,000
07/09/17						6.9	66,000
07/10/17						7.0	66,000
07/11/17						6.9	65,000
07/12/17						6.8	62,000
07/13/17						6.8	63,000
07/14/17						6.9	64,000
07/15/17						6.9	61,000
07/16/17						6.9	65,000
07/17/17						6.9	54,000
07/18/17						6.9	63,000
07/19/17						6.9	59,000
07/20/17						7.0	63,000
07/21/17						6.9	54,000
07/22/17						6.9	62,000
07/23/17						6.8	60,000
07/24/17						6.9	54,000
07/25/17						7.0	62,000
07/26/17						7.0	56,000
07/27/17						6.8	57,000
07/28/17						6.7	63,000
07/29/17						6.8	53,000
07/30/17						6.8	52,000
07/31/17						6.9	60,000
Monthly Average	for Chromium						
Concentration	0.24 mg	ı/L					
Ave. Flow	65,968 gpc						
Ave. Load	0.13 #/d						
PERMIT	3.10 #/d						
Notes:	55 1176	/					

ND = Non-Detect. Value reported to be below the Laboratory Reporting Limit. NS: No Standard. No instantaneous maximum for Total Chromium.

The laboratory Reporting Limit for Lead is 0.0025 mg/L.
The laboratory Reporting Limit for Mercury is 0.00020 mg/L.
The laboratory Reporting Limit for Phenols is 0.050 mg/L.

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America	Test America	Test America	Test America	Test America		
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total	Total	Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	рН	gpd
POTW Permit or						5.0	<u> </u>
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.			0.005				175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.11	0.00	0.00	0.80	0.00	6.6	0
Monthly ave	0.11	0.00	0.00	0.80	0.00	6.8	46,129
Monthly max	0.11	0.00	0.00	0.80	0.00	7.0	91,000
Data points	1	1	1	1	1	31	31
Date:	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			<u> </u>	<u> </u>
08/01/17	0.110	ND	ND	0.80	ND	6.9	55,000
08/02/17	0.110	110	110	0.00	110	6.9	51,000
08/03/17						6.8	53,000
08/04/17						6.8	55,000
08/05/17						6.6	58,000
08/06/17						6.9	50,000
08/07/17						6.9	50,000
08/08/17						7.0	52,000
08/09/17						6.9	56,000
08/10/17						6.8	36,000
08/11/17						6.8	0
08/12/17						6.8	0
08/13/17						6.8	0
08/14/17						6.8	28,000
08/15/17						6.8	91,000
08/16/17						6.8	67,000
08/17/17						6.8	46,000
08/18/17						6.7	47,000
08/19/17						6.7	48,000
08/20/17						6.8	48,000
08/21/17						6.8	49,000
08/22/17						6.9	55,000
08/23/17						6.7	47,000
08/24/17						6.8	49,000
08/25/17						6.8	44,000
08/26/17						6.9	52,000
08/27/17						7.0	52,000
08/28/17						6.9	46,000
08/29/17		<u> </u>	<u> </u>			6.9	46,000
08/30/17						6.8	50,000
08/31/17						6.8	49,000
Monthly Average	for Chromium						
Concentration	0.11 m	ıg/L					
Ave. Flow	46,129 gr	pd					
Ave. Load	0.04 #/						
PERMIT	3.10 #/	/day					

ND = Non-Detect. Value reported to be below the Laboratory Reporting Limit. NS: No Standard. No instantaneous maximum for Total Chromium.

The laboratory Reporting Limit for Lead is 0.0025 mg/L.
The laboratory Reporting Limit for Mercury is 0.00020 mg/L.
The laboratory Reporting Limit for Phenols is 0.050 mg/L.

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
LOCATION:		Sampler		Sampler			
ANALYZED BY:	Sampler Test America	Test America	Sampler Test America	Test America	Sampler Test America	Meter	Meter
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH	WOAVVV 420.1		
I KLOLKVLD.	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenois	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or		IIIg/I	mg/i	IIIg/I	mg/i	5.0	gpu
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.	INO	0.0	0.025	3.0	3.0	9.0	175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.20	0.00	0.00	0.96	0.00	6.6	40,000
Monthly ave	0.20	0.00	0.00	0.96	0.00	6.9	48,467
Monthly max	0.20	0.00	0.00	0.96	0.00	7.1	57,000
Data points	1	1	1	1	1	30	30
Date:						0.0	F0.000
09/01/17						6.8	53,000
09/02/17						6.8	43,000
09/03/17 09/04/17						6.6 7.0	46,000 46,000
	0.200	ND	ND	0.00	ND		
09/05/17 09/06/17	0.200	ND	ND	0.96	ND	7.0 6.8	48,000
							53,000 50,000
09/07/17 09/08/17						6.8 7.0	46,000
09/09/17						6.9	48,000
09/10/17						6.9	52,000
09/10/17						7.1	47,000
09/12/17						7.1	45,000
09/13/17						6.8	50,000
09/14/17						6.9	56,000
09/15/17						6.8	46,000
09/16/17						6.7	45,000
09/17/17						6.8	54,000
09/18/17						6.9	51,000
09/19/17						7.0	46,000
09/20/17						6.8	45,000
09/21/17						7.0	49,000
09/22/17						7.0	57,000
09/23/17						6.8	43,000
09/24/17						6.8	40,000
09/25/17						6.7	57,000
09/26/17						6.8	49,000
09/27/17						6.9	50,000
09/28/17						7.0	47,000
09/29/17	·				·	7.0	44,000
09/30/17						6.8	48,000
Monthly Average				<u> </u>			<u> </u>
Concentration	0.20 m						
Ave. Flow	48,467 g						
Ave. Load	0.08 #						
PERMIT	3.10 #	/day					
Notes:							

NOTES.

ND = Non-Detect. Value reported to be below the Laboratory Reporting Limit.

NS: No Standard. No instantaneous maximum for Total Chromium.

The laboratory Reporting Limit for Lead is 0.0025 mg/L.

The laboratory Reporting Limit for Mercury is 0.00020 mg/L.

The laboratory Reporting Limit for Phenols is 0.050 mg/L.

ATTACHMENT 2 ANALYTICAL DATA



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-140631-1

Client Project/Site: Hercules Glens Falls O&M Quarterly

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Addi Barnott

Authorized for release by: 7/13/2017 11:41:40 AM

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

.....LINKS

Review your project results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Qualifiers

Metals

Qualifier **Qualifier Description**

Ū Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

PQL Practical Quantitation Limit

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF **TEQ** Toxicity Equivalent Quotient (Dioxin)

7/13/2017

Page 2 of 13

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-140631-1	POTW-20170703	Water	07/03/17 08:55	07/06/17 09:05

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Job ID: 680-140631-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Ashland LLC
Project: Hercules Glens Falls O&M Quarterly

Report Number: 680-140631-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 07/06/2017; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

TOTAL METALS (ICPMS)

Sample POTW-20170703 (680-140631-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 07/11/2017 and analyzed on 07/12/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW-20170703 (680-140631-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 07/10/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW-20170703 (680-140631-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 07/12/2017.

Sample POTW-20170703 (680-140631-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW-20170703 (680-140631-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared on 07/12/2017 and analyzed on 07/13/2017.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Date Collected: 07/03/17 08:55 Matrix: Water

Date Received: 07/06/17 09:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chromium	240		5.0	1.6	ug/L		07/11/17 11:10	07/12/17 18:22	
Lead	2.5	U	2.5	0.98	ug/L		07/11/17 11:10	07/12/17 18:22	
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	0.20	п –	0.20	0.080	ua/l		07/10/17 08:24	07/10/17 16:57	

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.91		0.10	0.025	mg/L		07/12/17 05:00	07/12/17 11:29	10
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		07/12/17 11:59	07/13/17 09:52	1

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Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487121

Prep Batch: 487391

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-487310/1-A

Matrix: Water Analysis Batch: 487598

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 487310

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 5.0 07/11/17 11:10 07/12/17 16:47 Chromium 5.0 U 1.6 ug/L Lead 2.5 U 2.5 0.98 ug/L 07/11/17 11:10 07/12/17 16:47

Lab Sample ID: LCS 680-487310/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 487598 Prep Batch: 487310** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chromium 100 104 ug/L 104 85 - 115 500 493 ug/L Lead 99 85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-487121/13-A

Matrix: Water

Analysis Batch: 487260

MB MB

Result Qualifier RL MDL Unit Analyte Prepared Analyzed Dil Fac Mercury 0.20 U 0.20 0.080 ug/L 07/10/17 08:24 07/10/17 16:00

Lab Sample ID: LCS 680-487121/15-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 487260 Prep Batch: 487121** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 2.49 ug/L 100 85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-487391/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 487447

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.010 Cyanide, Total 07/12/17 05:00 07/12/17 10:41 0.010 U 0.0025 mg/L

Lab Sample ID: LCS 680-487391/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 487447 Prep Batch: 487391** Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 0.0500 0.0507 101 90 - 110 Cyanide, Total mg/L

Lab Sample ID: 680-140631-1 DU Client Sample ID: POTW-20170703 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 487447

Prep Batch: 487391 Sample Sample DU DU **RPD** Result Qualifier Result Qualifier RPD Analyte Unit D Limit Cyanide, Total 0.91 0.975 mg/L

TestAmerica Savannah

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7/13/2017

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-140631-1

RL

0.050

Spike

Added

0.100

MDL Unit

0.025 mg/L

LCS LCS

0.0834

Result Qualifier

Unit

mg/L

Project/Site: Hercules Glens Falls O&M Quarterly

Method: 420.1 - Phenolics, Total Recoverable

0.050 U

Lab Sample ID: MB 680-487453/1-A **Matrix: Water**

Analysis Batch: 487591

Phenolics, Total Recoverable

MB MB Analyte Result Qualifier

Lab Sample ID: LCS 680-487453/2-A

Matrix: Water Analysis Batch: 487591

Analyte

Phenolics, Total Recoverable

Client Sample ID: Method Blank **Prep Type: Total/NA**

Prep Batch: 487453

Prepared Analyzed Dil Fac

07/12/17 11:59 07/13/17 09:52

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 487453 %Rec.

Limits

D %Rec 83 75 - 125

QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Metals

Prep	Batc	h: 48	712
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	245.1	
MB 680-487121/13-A	Method Blank	Total/NA	Water	245.1	
LCS 680-487121/15-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 487260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	245.1	487121
MB 680-487121/13-A	Method Blank	Total/NA	Water	245.1	487121
LCS 680-487121/15-A	Lab Control Sample	Total/NA	Water	245.1	487121

Prep Batch: 487310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	200.8	
MB 680-487310/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-487310/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 487598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	200.8	487310
MB 680-487310/1-A	Method Blank	Total/NA	Water	200.8	487310
LCS 680-487310/2-A	Lab Control Sample	Total/NA	Water	200.8	487310

General Chemistry

Prep Batch: 487391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	Distill/CN	
MB 680-487391/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-487391/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
680-140631-1 DU	POTW-20170703	Total/NA	Water	Distill/CN	

Analysis Batch: 487447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	335.4	487391
MB 680-487391/1-A	Method Blank	Total/NA	Water	335.4	487391
LCS 680-487391/2-A	Lab Control Sample	Total/NA	Water	335.4	487391
680-140631-1 DU	POTW-20170703	Total/NA	Water	335.4	487391

Prep Batch: 487453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	Distill/Phenol	
MB 680-487453/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-487453/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 487591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-140631-1	POTW-20170703	Total/NA	Water	420.1	487453
MB 680-487453/1-A	Method Blank	Total/NA	Water	420.1	487453
LCS 680-487453/2-A	Lab Control Sample	Total/NA	Water	420.1	487453

TestAmerica Savannah

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Lab Chronicle

Client: Ashland LLC

Date Received: 07/06/17 09:05

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Lab Sample ID: 680-140631-1

Client Sample ID: POTW-20170703 Date Collected: 07/03/17 08:55 **Matrix: Water**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			487310	07/11/17 11:10	AJR	TAL SAV
Total/NA	Analysis	200.8		1	487598	07/12/17 18:22	BWR	TAL SAV
Total/NA	Prep	245.1			487121	07/10/17 08:24	JKL	TAL SAV
Total/NA	Analysis	245.1		1	487260	07/10/17 16:57	JKL	TAL SAV
Total/NA	Prep	Distill/CN			487391	07/12/17 05:00	DAM	TAL SAV
Total/NA	Analysis	335.4		10	487447	07/12/17 11:29	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			487453	07/12/17 11:59	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	487591	07/13/17 09:52	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 680-140631-1

Project/Site: Hercules Glens Falls O&M Quarterly

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program AFCEE	EPA Region	SAVLAB	Expiration Dat
Alabama	State Program	4	41450	07-31-17 *
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	N/A	06-30-17 *
Georgia	State Program	4	803	06-30-17 *
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-17 *
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-17 *
lowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	9925 N/A	06-30-17
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17 *
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17 *
New York	NELAP	2	10842	03-31-18
	State Program	4	13701	07-31-17 *
North Carolina (DW) North Carolina (WW/SW)	State Program	4	269	12-31-17
	.			
Oklahoma Pennsylvania	State Program NELAP	6 3	9984 68-00474	08-31-17 * 06-30-17 *
Pennsylvania Puerto Rico	State Program	ა 2	GA00006	12-31-17
South Carolina	State Program State Program	4	98001	06-30-17 *
Tennessee	State Program State Program	4	TN02961	06-30-17
Termessee Texas	NELAP	6	T104704185-16-9	11-30-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-20
		10	C805	06-14-17
Washington	State Program		9950C	12-31-17
West Virginia (DW)	State Program	3 3	9950C 094	06-30-18
West Virginia DEP	State Program			
Wisconsin	State Program	5	999819810 8TMS-L	08-31-17 *

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TestAmerica Savannah

7/13/2017

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Quarterly

TestAmerica Job ID: 680-140631-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Chain of Custody Record

681-Atlanta

TestAmerica Savannah

5102 LaRoche Avenue

194177

TestAmerico

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TAL-8210 (0713) Sampler: (- Compt Sample Specific Notes: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) 00 For Lab Use Only: Job / SDG No. Walk-in Client: ab Sampling: Date/Time: of Date/Time COC No. 680-140631 Chain of Custody Smeany Date: 7/5// Carrier Xother: NYSDE Received in Laboratory by och She Return to Client 4435 Received by Site Contact: Lab Contact: RCRA 2007 Filtered Sample (Y / N) NPDES Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Date Time: 000 7/3/17 1330 Ogte/Time 17 # of Cont. WORKING DAYS Matrix MQ Analysis Turnaround Time 315-949-7022 Type (C=Comp, G=Grab) Sample Regulatory Program: TAT if different from Below 2 weeks 2 days 1 week Sample CALENDAR DAYS Time Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3, 5=NaOH; 6= Other Project Manager: 1/3/17 855 Custody Seal No Poison B Company: Tel/Fax: Sample Company Company CLEAS FAIR FOTH MOTHING Special Instructions/QC Requirements & Comments: Comments Section if the lab is to dispose of the sample. Sample Identification Savannah, GA 31464 Phone: 912.354.7858 Fax: Anten Com Client Contact 315 -1949- 70x PUTU-20170703 Possible Hazard Identification: Custody Seals Intak Glens Company Name: Relinquished by: Project Name: Non-Hazard City/State/Zip: Address: Phone: # O d Site:

Page 12 of 13

Job Number: 680-140631-1

Client: Ashland LLC

Login Number: 140631 List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

oreator. Danua, omisty 5		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Savannah

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-122115-1

Client Project/Site: Hercules Glens Falls O&M Monthly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Ath Barnett

Authorized for release by: 8/9/2017 3:56:21 PM

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

·····LINKS ······

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Project/Site: Hercules Glens Falls O&M Monthly POTW

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Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 480-122115-1

Qualifiers

Metals

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.				
Eisted under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery				
CFL	Contains Free Liquid				
CNF	Contains No Free Liquid				
DER	Duplicate Error Ratio (normalized absolute difference)				
Dil Fac	Dilution Factor				
DL	Detection Limit (DoD/DOE)				
DI RA RE IN	Indicates a Dilution, Re-analysis, Re-extraction or additional Initial metals/anion analysis of the sample				

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Buffalo

Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

Job ID: 480-122115-1

Laboratory: TestAmerica Buffalo

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M Monthly POTW

Report Number: 480-122115-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 08/03/2017; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.8° C.

TOTAL METALS (ICPMS)

Sample POTW_20170801 (480-122115-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 08/08/2017 and analyzed on 08/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_20170801 (480-122115-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 08/07/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_20170801 (480-122115-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 08/08/2017.

Sample POTW 20170801 (480-122115-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_20170801 (480-122115-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 08/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 480-122115-1

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Detection Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 480-122115-1

Analyte	Result (Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	110		5.0	1.6	ug/L		_	200.8	Total/NA
Cyanide, Total	0.80		0.10	0.025	mg/L	10		335.4	Total/NA

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Client Sample Results

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 480-122115-1

Client Sample ID: POTW_20170801

Date Collected: 08/01/17 09:15
Date Received: 08/03/17 02:00

Lab Sample ID: 480-122115-1

Matrix: Water

Method: 200.8 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	110		5.0	1.6	ug/L		08/08/17 09:56	08/09/17 10:27	1
Lead	2.5	U	2.5	0.98	ug/L		08/08/17 09:56	08/09/17 10:27	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/07/17 11:18	08/07/17 17:46	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.80		0.10	0.025	mg/L		08/08/17 05:30	08/08/17 11:35	10
Phenolics Total Recoverable	0.050	U	0.050	0.025	ma/l		08/09/17 09:02	08/09/17 12:27	1

TestAmerica Buffalo

TestAmerica Job ID: 480-122115-1

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 490592

Prep Type: Total/NA

Prep Batch: 490520

Prep Type: Total/NA

Prep Batch: 490636

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-490636/1-A

Analysis Batch: 490910

Matrix: Water

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		08/08/17 09:56	08/09/17 09:48	1
Lead	2.5	U	2.5	0.98	ug/L		08/08/17 09:56	08/09/17 09:48	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 680-490636/2-A **Matrix: Water Prep Type: Total/NA Analysis Batch: 490910 Prep Batch: 490636** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chromium 100 109 ug/L 109 85 - 115 500 485 ug/L Lead 97 85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-490520/1-A

Matrix: Water

Analysis Batch: 490719

MB MB

Result Qualifier RL MDL Unit Analyte Prepared Analyzed Dil Fac Mercury 0.20 U 0.20 0.080 ug/L 08/07/17 11:18 08/07/17 17:16

Lab Sample ID: LCS 680-490520/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 490719 Prep Batch: 490520** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 2.51 ug/L 100 85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-490592/1-A

Matrix: Water

Analysis Batch: 490661

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.010 Cyanide, Total 08/08/17 05:30 08/08/17 11:07 0.010 U 0.0025 mg/L

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 680-490592/2-A **Matrix: Water** Prep Type: Total/NA Analysis Batch: 490661 **Prep Batch: 490592** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits 0.0500 0.0540 108 90 - 110 Cyanide, Total mg/L

TestAmerica Buffalo

8/9/2017

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 480-122115-1

RL

0.050

Spike

Added

0.100

MDL Unit

0.025 mg/L

LCS LCS

0.0964

Result Qualifier

Unit

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 420.1 - Phenolics, Total Recoverable

Result Qualifier

Lab Sample ID: MB 680-490808/1-A **Matrix: Water**

Analysis Batch: 490878

Analyte

MB MB

Phenolics, Total Recoverable 0.050 U

Lab Sample ID: LCS 680-490808/2-A **Matrix: Water**

Analysis Batch: 490878

Analyte Phenolics, Total Recoverable Client Sample ID: Method Blank **Prep Type: Total/NA**

Prep Batch: 490808

Prepared Analyzed Dil Fac

08/09/17 09:02 08/09/17 12:22

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 490808 %Rec.

Limits D %Rec

96 75 - 125 mg/L

TestAmerica Buffalo

8/9/2017

QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 480-122115-1

N/A	-4	_	_
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122115-1	POTW_20170801	Total/NA	Water	245.1	
MB 680-490520/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-490520/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 490636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122115-1	POTW_20170801	Total/NA	Water	200.8	
MB 680-490636/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-490636/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 490719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122115-1	POTW_20170801	Total/NA	Water	245.1	490520
MB 680-490520/1-A	Method Blank	Total/NA	Water	245.1	490520
LCS 680-490520/2-A	Lab Control Sample	Total/NA	Water	245.1	490520

Analysis Batch: 490910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122115-1	POTW_20170801	Total/NA	Water	200.8	490636
MB 680-490636/1-A	Method Blank	Total/NA	Water	200.8	490636
LCS 680-490636/2-A	Lab Control Sample	Total/NA	Water	200.8	490636

General Chemistry

Prep Batch: 490592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122115-1	POTW_20170801	Total/NA	Water	Distill/CN	
MB 680-490592/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-490592/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 490661

Li	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
48	30-122115-1	POTW_20170801	Total/NA	Water	335.4	490592
М	B 680-490592/1-A	Method Blank	Total/NA	Water	335.4	490592
L	CS 680-490592/2-A	Lab Control Sample	Total/NA	Water	335.4	490592

Prep Batch: 490808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122115-1	POTW_20170801	Total/NA	Water	Distill/Phenol	
MB 680-490808/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-490808/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 490878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-122115-1	POTW_20170801	Total/NA	Water	420.1	490808
MB 680-490808/1-A	Method Blank	Total/NA	Water	420.1	490808
LCS 680-490808/2-A	Lab Control Sample	Total/NA	Water	420.1	490808

TestAmerica Buffalo

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 480-122115-1

Lab Sample ID: 480-122115-1

Client Sample ID: POTW 20170801 Date Collected: 08/01/17 09:15 **Matrix: Water** Date Received: 08/03/17 02:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			490636	08/08/17 09:56	AJR	TAL SAV
Total/NA	Analysis	200.8		1	490910	08/09/17 10:27	BJB	TAL SAV
Total/NA	Prep	245.1			490520	08/07/17 11:18	NVF	TAL SAV
Total/NA	Analysis	245.1		1	490719	08/07/17 17:46	NVF	TAL SAV
Total/NA	Prep	Distill/CN			490592	08/08/17 05:30	DAM	TAL SAV
Total/NA	Analysis	335.4		10	490661	08/08/17 11:35	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			490808	08/09/17 09:02	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	490878	08/09/17 12:27	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 480-122115-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	10026 (NY)	03-31-18
Georgia	State Program	4	956	03-31-18
Illinois	NELAP	5	200003	09-30-17
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-18
Kentucky (WW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	04-01-09 *
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP	1	2337	11-17-17
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-18
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Buffalo

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 480-122115-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Laboratory: TestAmerica Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-18
lowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-17 *
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-17 *
Wyoming	State Program	8	8TMS-L	06-30-16 *

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Buffalo

Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 480-122115-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 480-122115-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-122115-1	POTW_20170801	Water	08/01/17 09:15	08/03/17 02:00

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THE LEADER IN ENVIRONMENTAL TESTING TestAmerica Laboratories, Inc. TAL-8210 (0713) 36 Sample Specific Notes: COCs Chour? 0260 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Sampler: General For Lab Use Only: Date/Time: Job / SDG No.: Walk-in Client: ab Sampling: Therm ID No Date/Time: Date/Time COC No: 480-122115 COC Archive for 18941 Сопрану Corr'd: Company: Date: 8/1// Disposal by Lab Carrier: Xother: MY SDE Chain of Custody Record Received in Laboratory by: Cooler Temp. Return to Client 55.5 130.1-430.1-Received by: पुर रिक्तर Site Contacts RCRA ab Contae **AM** (N \Y) OSM\SM mnohe9 Fiftered Sample (Y / N) NPDES Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Cion (N) 100C Sa-Krimp # of Cont. 3 Date/Time: WORKING DAYS 200 Matrix 6165 . DW Analysis Turnaround Time Unknown Type (C=Comp, G=Grab) Sample TAT if different from Balaw Project Manager: Bryon Regulatory Program: 2 weeks 1 week 2 days 1 day 480501-Albany Tel/Fax: 315 - 749 Sample CALENDAR DAYS Preservation Used: 1= Ice, 2= HCl; 3= H2SO4, 4=HNO3, (5=NaOH;)s= Other Time 915 Custody Seal No. Poison B Company: Sample 71/1/8 Company: Company Date Anherst, NY 14226 Phone: 716.691.2600 Fax: 716.691.7991 Special Instructions/QC Requirements & Comments: Project Name 6 Cons Falls POTW Monthly POTW_2010801 2 Sample Identification Client Contact Notice Group **Sell 5** 10 Nazelupod Brive Sie: Ashand Glas F Possible Hazard Identification: Sylacustra CHA-10801 Custody Seals Intact To To Company Name: Relinquished by. Address: 875 Relinquished by Relinquished by City/State/Zip: Phone. Fax 8/9/2017 Page 15 of 18

ובשרווובו זרם מחוו מזה

3.5°C (CF) 3.8°C

Cooler Temperature(s) "C and Other Remarks

Received by

Company

Date/Time.

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TestAmerica

Chain of Custody Record

TestAmerica Buffalo

Amherst, NY 14228-2298

10 Hazelwood Drive

N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate Company 7 # SAL Special Instructions/Note: U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Note: Since laborations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not content instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc. Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Preservation Codes: A - HCL
B - NaOH
C - Zn Acetate
C - Zn Acetate
D - Nitric Acid
E - NaDSO4
F - MODH
G - Amchlor
H - Ascorptic Acid 480-122115-1 480-36407.1 Page 1 of 1 I - Ice J - DI Water K - EDTA Archive For Total Number of containers 3 Method of Shipment: Carrier Tracking No(s) Disposal By Lab State of Origin: New York Analysis Requested Return To Client Diss eddle.barnett@testamericainc.com Accreditations Required (See note). 20.1/Distill_Phenol Phenolics, Total Recoverable × 336.4/Distill_CN Cyanide, Total Received by: × Lab PM: Barnett, Eddie T × 200.8 CWA/200.8 P_TOT Chromium & Lead Perform MS/MSD (Yes or No) Time: Field Filtered Sample (Yes or No) Preservation Code: Matrix Water G=grab) (C=Comp, Sample Type Primary Deliverable Rank: 2 Sample Eastern 09:15 Time Date (AT Requested (days) Due Date Requested: 8/10/2017 Sample Date 8/1/17 Project # 68000956 Client Information (Sub Contract Lab) Unconfirmed Deliverable Requested: 1, II, III, IV, Other (specify) Sample Identification - Client ID (Lab ID) Hercules Glens Falls O&M Monthly POTW Phone (716) 691-2600 Fax (716) 691-7991 912-354-7858(Tel) 912-352-0165(Fax) POTW_20170801 (480-122115-1) Possible Hazard Identification TestAmerica Laboratories, Inc. Empty Kit Relinquished by: 5102 LaRoche Avenue Shipping/Receiving Savannah GA, 31404 State, Zip.

yd bedsinbu

Custody Seal No.

Custody Seals Intact: Δ Yes Δ No

Login Sample Receipt Checklist

Client: Ashland LLC Job Number: 480-122115-1

Login Number: 122115 List Source: TestAmerica Buffalo

List Number: 2

Creator: Williams, Christopher S

Creator. Williams, Christopher S		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Client: Ashland LLC Job Number: 480-122115-1

List Source: TestAmerica Savannah
List Number: 3
List Creation: 08/04/17 02:48 PM

Creator: Tyler, Matthew M

Creator: Tyler, Matthew M		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-142936-1

Client Project/Site: Hercules Glens Falls O&M Monthly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Authorized for release by:

9/15/2017 12:22:19 PM

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

·····LINKS ······

Review your project results through

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Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-142936-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) ML

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Page 2 of 13

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-142936-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-142936-1	POTW_20170905	Water	09/05/17 12:45	09/07/17 09:10

Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

Job ID: 680-142936-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M Monthly POTW

Report Number: 680-142936-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The sample was received on 09/07/2017; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

TOTAL METALS (ICPMS)

Sample POTW 20170905 (680-142936-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 09/07/2017 and analyzed on 09/14/2017.

Chromium was detected in method blank MB 680-494401/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW 20170905 (680-142936-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 09/13/2017 and analyzed on 09/14/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW 20170905 (680-142936-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 09/15/2017.

Sample POTW 20170905 (680-142936-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW 20170905 (680-142936-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 09/14/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 680-142936-1

Client Sample Results

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-142936-1

Lab Sample ID: 680-142936-1 Client Sample ID: POTW 20170905

Date Collected: 09/05/17 12:45 Date Received: 09/07/17 09:10

Matrix: Water

Method: 200 8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	200	В	5.0	1.6	ug/L		09/07/17 14:07	09/14/17 17:33	1
Lead	2.5	U	2.5	0.98	ug/L		09/07/17 14:07	09/14/17 17:33	1

Method: 245.1 - Mercury (CVAA	()							
Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20 U	0.20	0.080	ua/L		09/13/17 11:01	09/14/17 13:45	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.96		0.10	0.025	mg/L		09/15/17 04:30	09/15/17 11:34	10
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		09/14/17 09:42	09/14/17 10:49	1

9/15/2017

TestAmerica Job ID: 680-142936-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-494401/1-A

Analysis Batch: 494857

Client: Ashland LLC

Matrix: Water

Client Sample ID: Method Blank Prep Type: Total/NA **Prep Batch: 494401**

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.63	J	5.0	1.6	ug/L		09/07/17 14:07	09/14/17 17:03	1
Lead	2.5	U	2.5	0.98	ug/L		09/07/17 14:07	09/14/17 17:03	1

Lab Sample ID: LCS 680-494401/2-A **Matrix: Water**

Analysis Batch: 494857

Analyte Chromium Spike

Added

100

500

LCS LCS Result Qualifier 107

524

Unit %Rec ug/L ug/L

Limits 107 105

Client Sample ID: Lab Control Sample

%Rec.

Prep Type: Total/NA

Prep Batch: 494401

85 - 115 85 - 115

Client Sample ID: Method Blank

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-494596/1-A

Matrix: Water

Lead

Analysis Batch: 494757

MB MB

0.20 U

Analyte

Result Qualifier

0.20

Spike

RL

MDL Unit 0.080 ug/L

LCS LCS

Result Qualifier

Unit

Unit

mg/L

Prepared

%Rec

103

Prep Batch: 494596 Analyzed Dil Fac

Prep Type: Total/NA

09/13/17 11:01 09/14/17 13:26

Lab Sample ID: LCS 680-494596/2-A

Matrix: Water

Mercury

Analysis Batch: 494757

Analyte Added **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 494596

%Rec. Limits 85 - 115

Client Sample ID: Method Blank

Mercury 2.50 2.58 ug/L

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-494791/1-A

Matrix: Water

Analysis Batch: 494883

MB MB

Analyte Result Qualifier Cyanide, Total 0.010 U

RL 0.010

MDL Unit 0.0025 mg/L

Prepared 09/15/17 04:30 09/15/17 10:39

Analyzed

Prep Type: Total/NA

Prep Batch: 494791

Prep Type: Total/NA

Prep Batch: 494791

Dil Fac

Lab Sample ID: LCS 680-494791/2-A

Matrix: Water

Analysis Batch: 494883

Analyte 0.0500 Cyanide, Total

Spike LCS LCS Added

Result Qualifier 0.0533

D %Rec 107

%Rec. Limits 90 - 110

Client Sample ID: Lab Control Sample

TestAmerica Savannah

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-142936-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-494691/1-A **Matrix: Water**

Lab Sample ID: LCS 680-494691/2-A

Analysis Batch: 494728

Analysis Batch: 494728

Phenolics, Total Recoverable

Matrix: Water

Analyte

MB MB

Analyte Phenolics, Total Recoverable

Result Qualifier 0.050 U

RL 0.050

Spike

Added

0.100

MDL Unit 0.025 mg/L

LCS LCS

0.0982

Result Qualifier

Unit

mg/L

09/14/17 09:42 09/14/17 10:42 **Client Sample ID: Lab Control Sample**

Prepared

D %Rec

98

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA **Prep Batch: 494691**

Prep Type: Total/NA

Prep Batch: 494691

%Rec. Limits

75 - 125

Dil Fac

QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-142936-1

Metals

Prep Batch: 494401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	200.8	
MB 680-494401/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-494401/2-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 494596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	245.1	
MB 680-494596/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-494596/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 494757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	245.1	494596
MB 680-494596/1-A	Method Blank	Total/NA	Water	245.1	494596
LCS 680-494596/2-A	Lab Control Sample	Total/NA	Water	245.1	494596

Analysis Batch: 494857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	200.8	494401
MB 680-494401/1-A	Method Blank	Total/NA	Water	200.8	494401
LCS 680-494401/2-A	Lab Control Sample	Total/NA	Water	200.8	494401

General Chemistry

Prep Batch: 494691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	Distill/Phenol	
MB 680-494691/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-494691/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 494728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	420.1	494691
MB 680-494691/1-A	Method Blank	Total/NA	Water	420.1	494691
LCS 680-494691/2-A	Lab Control Sample	Total/NA	Water	420.1	494691

Prep Batch: 494791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	Distill/CN	
MB 680-494791/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-494791/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 494883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-142936-1	POTW_20170905	Total/NA	Water	335.4	494791
MB 680-494791/1-A	Method Blank	Total/NA	Water	335.4	494791
LCS 680-494791/2-A	Lab Control Sample	Total/NA	Water	335 4	494791

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Lab Chronicle

Client: Ashland LLC

Client Sample ID: POTW 20170905

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-142936-1

Lab Sample ID: 680-142936-1

Matrix: Water

Date Collected: 09/05/17 12:45 Date Received: 09/07/17 09:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			494401	09/07/17 14:07	AJR	TAL SAV
Total/NA	Analysis	200.8		1	494857	09/14/17 17:33	BJB	TAL SAV
Total/NA	Prep	245.1			494596	09/13/17 11:01	NVF	TAL SAV
Total/NA	Analysis	245.1		1	494757	09/14/17 13:45	BCB	TAL SAV
Total/NA	Prep	Distill/CN			494791	09/15/17 04:30	DAM	TAL SAV
Total/NA	Analysis	335.4		10	494883	09/15/17 11:34	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			494691	09/14/17 09:42	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	494728	09/14/17 10:49	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 680-142936-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program AFCEE	EPA Region	Identification Number SAVLAB	Expiration Dat
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17 *
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-17 *
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
		4	803	06-30-18
Georgia	State Program	9	15-005r	
Guam	State Program		N/A	04-16-18 06-30-18
Hawaii	State Program	9		
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-18
lowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-17
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program State Program	3	9950C	12-31-17
West Virginia (DW)	State Program	3	094	06-30-18
Wisconsin	.	ა 5	999819810	
wisconsin Wyoming	State Program State Program	5 8	999819810 8TMS-L	08-31-17 * 06-30-16 *

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Savannah

9/15/2017

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Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-142936-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

204177

Chain of Custody Record

681-Atlanta

lesthiller Ica Savannan

SIGZ LaRoche Avenue

TestAmerica Laboratories, Inc. TAL-8210 (0713) 1036 Sample Specific Notes: COCs
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 3</t For Lab Use Only: Date/Time: 9/6/12 Job / SDG No. Walk-in Client .ab Sampling: Months ō Therm ID No. COC No: 680-142936 Chain of Custody Archive for Disposal by Lab Carrier: Date: Vother: NYSDE Received in Laboratory by, Return to Client Spinoy phenolis Site Contact Lab Contact RCRA Filtered Sample (Y/N)
Perform MS/MSD (Y/ Sht Š 9/6/17 (8 0 NPDES Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the # of Cont. Date/Time: WORKING DAYS Matrix 3 MO Analysis Turnaround Time Type (C=Comp, G=Grab) Sample Regulatory Program: TAT if different from Below Project Manager: Byan Tel/Fax: 315 - 749 - 70 2 weeks 1 week 2 days 1 day Sample Time 1345 Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other CALENDAR DAYS Custody Seal No. Poison B Ama が表 Company Company: Sample 9/5/1 Date 1 IS POIL MONTHA Special Instructions/QC Requirements & Comments: Comments Section if the lab is to dispose of the sample Fax: Sample Identification Savannah, 5A 31404 Phone: 912.354.7858 Client Contact 8755 Wide westers 2005 POTN-20170905 Possible Hazard Identification: Sylle Ly 450347193V Project Name: 6/275 Custody Seals Intael Ashland Company Name: Relinquished by: Relinquished by Relinquished :ty/State/Zip: \ddress: Phone: #Od Site: ax: Page 12 of 13 9/15/2017 Client: Ashland LLC Job Number: 680-142936-1

Login Number: 142936 List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

oreator. Danua, omisty o		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Savannah



Hercules LLC A wholly owned subsidiary of Ashland, LLC Ashland LLC. - EH&S - DS4 5200 Blazer Parkway Dublin, Ohio 43017

February 15, 2018

Mr. Larry Glasheen Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for 4th Quarter 2017 Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Glasheen:

Attached is the 4th Quarter 2017 Discharge Monitoring Report for the Hercules/Ciba site. Monthly wastewater samples were collected on the following dates:

- October 4, 2017
- November 7, 2017

The extended list annual wastewater was collected on December 11, 2017.

All parameters meet the limits of the wastewater discharge permit effective April 23, 2007 which was subsequently renewed in April 2012 and April 2017.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

James E. Vondracek, P.E. Principal Remediation Engineer

Attachments

cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ

ATTACHMENT 1 DISCHARGE DATA

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
LOCATION.	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:		Test America	Test America	Test America	Test America	ivietei	ivietei
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH	WOAVVV 420.1		
THEOLITICAL.	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenois	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	Hq	gpd
POTW Permit or		1119/1	ilig/i	mg/i	ilig/i	5.0	gpu
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Monthly ave.	110	0.0	0.025	3.0	5.0	3.0	175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.19	0.00	0.00	0.85	0.00	6.3	0
Monthly ave	0.19	0.00	0.00	0.85	0.00	6.9	43,903
Monthly max	0.19	0.00	0.00	0.85	0.00	7.1	72,000
Data points	1	1	1	1	1	31	31
Date:							=
10/01/17						6.8	51,000
10/02/17						6.9	45,000
10/03/17						7.0	43,000
10/04/17	0.190	ND	ND	0.85	ND	6.8	44,000
10/05/17						6.9	46,000
10/06/17						6.9	46,000
10/07/17						6.8	49,000
10/08/17						6.6	46,000
10/09/17						6.5	43,000
10/10/17						7.0	0
10/11/17						7.0	72,000
10/12/17						7.0	50,000
10/13/17						7.0	53,000
10/14/17						6.8	44,000
10/15/17						6.9	45,000
10/16/17						7.0	43,000
10/17/17						6.5	42,000
10/18/17						7.0	43,000
10/19/17						6.3	44,000
10/20/17						6.8	42,000
10/21/17						6.9	42,000
10/22/17						6.9	42,000
10/23/17						7.0	44,000
10/24/17						7.1	44,000
10/25/17						7.0	44,000
10/26/17						6.8	46,000
10/27/17						7.0	38,000
10/28/17						7.0	43,000
10/29/17						6.9	43,000
10/30/17						6.6	43,000
10/31/17						7.0	41,000
Monthly Average	for Chromium						,
Concentration	0.19 mg	ı/L					
Ave. Flow	43,903 gp						
Ave. Load	0.07 #/d						
PERMIT	3.10 #/d						
: !!!!!!	J.10 π/0	uy					

ND = Non-Detect. Value reported to be below the Laboratory Reporting Limit.

NS: No Standard. No instantaneous maximum for Total Chromium.

The laboratory Reporting Limit for Lead is 0.0025 mg/L.
The laboratory Reporting Limit for Mercury is 0.00020 mg/L.
The laboratory Reporting Limit for Phenols is 0.050 mg/L.

LOCATION:	POTW-CG	POTW-CG	POTW-CG			POTW	POTW
	Sampler	Sampler	Sampler	Sampler			Meter
NALYZED BY:		Test America	Test America	Test America			
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total			Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide		•	Point
Units:	mg/l	mg/l	mg/l	mg/l		рН	gpd
POTW Permit or	r min					5.0	
Daily max.	NS	0.8	0.025	3.0	5.0		350,000
Monthly ave.			0.005				175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monthly min	0.16	0.00	0.00	0.69	0.00		16,000
Monthly ave	0.16	0.00	0.00	0.69	0.00		39,767
Monthly max	0.16	0.00	0.00	0.69	0.00		63,000
Data points	1	1	1	1	1	30	30
Date:	<u> </u>						
11/01/17						7.0	41,000
11/02/17						6.8	42,000
11/03/17						7.0	41,000
11/04/17						6.7	39,000
11/05/17						6.8	44,000
11/06/17						7.0	39,000
11/07/17	0.160	ND	ND	0.69	ND		38,000
11/08/17	0.100	110		0.00		7.1	42,000
11/09/17						7.0	43,000
11/10/17						6.9	42,000
11/11/17						6.9	42,000
11/12/17						6.8	40,000
11/13/17						7.0	41,00
11/14/17						7.0	41,000
11/15/17						7.0	39,00
11/16/17						6.9	35,00
11/17/17						6.9	38,00
11/18/17						6.8	41,00
11/19/17						6.7	16,00
11/20/17	-					6.9	63,00
11/21/17						6.9	41,00
11/22/17						6.7	37,00
11/23/17			-	-		6.8	37,00
11/24/17						6.8	41,00
11/25/17	-					6.7	41,00
11/26/17						6.7	37,00
11/27/17						6.8	32,00
11/28/17						6.9	40,00
11/29/17						6.8	41,00
11/30/17	-					6.9	39,00
Monthly Average	for Chromium						
Concentration	0.16 mg/	/1					
Ave. Flow	39,767 gpd						
Ave. Flow Ave. Load							
	0.05 #/da						
PERMIT	3.10 #/da	àУ					

ND = Non-Detect. Value reported to be below the Laboratory Reporting Limit.

NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Lead is 0.0025 mg/L. The laboratory Reporting Limit for Mercury is 0.00020 mg/L. The laboratory Reporting Limit for Phenols is 0.050 mg/L.

NS: No Standard. No instantaneous maximum for Total Chromium. The laboratory Reporting Limit for Mercury is 0.00020 mg/L. The laboratory Reporting Limit for Phenols is 0.050 mg/L.

ANALYZED BY: Test LAB METHOD: EF PRESERVED: Ch Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/06/17 12/06/17 12/06/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/16/17 12/16/17 12/16/17 12/16/17 12/18/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/20/17 12/20/17 12/20/17 12/20/17 12/20/17 12/20/17 12/20/17 12/23/17 12/23/17	OTW-CG Sampler America PA 200.8 Acid Chilled Total romium mg/I NS Yes 0.20 0.20 1 1 0.200 B	POTW-CG Sampler Test America EPA 200.8 Acid Chilled Total Lead mg/ 0.8 Yes 0.00 0.00 1	Sampler Test America EPA 245.1 Acid Chilled Total Mercury mg/l 3 0.025 0.005 3 Yes 0.000 1	POTW-CG Sampler Test America MCAWW 335.4 NaOH Chilled Total Cyanide mg/l 3.0 Yes 1.20 1.20 1.20 1.20	Phenols mg/l 5.0 Yes 0.00 0.00 1	POTW Meter Compliance Point PH 5.0 9.0 Yes 6.7 6.9 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0 6.7 6.8 6.9 7.0 6.8	POTW Meter Compliance Point gpd 350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 39,000 37,000 39,000 26,000 25,000
ANALYZED BY: Test LAB METHOD: EF PRESERVED: Ch Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/15/17 12/15/17 12/15/17 12/15/17 12/15/17 12/18/17 12/19/17 12/19/17 12/19/17 12/20/17 12/20/17 12/20/17 12/20/17 12/20/17 12/23/17 12/23/17 12/24/17	America PA 200.8 Acid Chilled Total romium mg/I NS Yes 0.20 0.20 0.20 1	Test America EPA 200.8 Acid Chilled Total Lead mg/ 0.8 Yes 0.00 0.00 1	Test America EPA 245.1 Acid Chilled Total Mercury mg/l 0.0025 0.005 Yes 0.000 1	Test America MCAWW 335.4 NaOH Chilled Total Cyanide mg/l 3.0 Yes 1.20 1.20 1.20 1.20	Test America MCAWW 420.1 Chilled Total Phenois mg/I 5.0 Yes 0.00 0.00 1	Compliance Point pH 5.0 9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7 6.9 6.7	Compliance Point gpd 350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 39,000 37,000 39,000 26,000 25,000
Ch Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/05/17 12/05/17 12/06/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/15/17 12/20/17 12/23/17 12/23/17 12/24/17	PA 200.8 Acid Chilled Total romium mg/I NS Yes 0.20 0.20 1	EPA 200.8 Acid Chilled Total Lead mg/ 0.8 Yes 0.00 0.00 1	EPA 245.1 Acid Chilled Total Mercury Morcury M	MCAWW 335.4 NaOH Chilled Total Cyanide mg/l 3.0 Yes 1.20 1.20 1.20 1.20	MCAWW 420.1 Chilled Total Phenols mg/l 5.0 Yes 0.00 0.00 1	Point pH 5.0 9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0 6.7 6.8	Point gpd 350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Ch Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/03/17 12/05/17 12/06/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/15/17 12/20/17 12/23/17 12/23/17 12/24/17	Acid Chilled Total romium mg/l NS Yes 0.20 0.20 1	Acid Chilled Total Lead mg/.	Acid Chilled Total Mercury mg/l	NaOH Chilled Total Cyanide mg/l 3.0 Yes 1.20 1.20 1.20	Chilled Total Phenols mg/l 5.0 Yes 0.00 0.00 1	Point pH 5.0 9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0 6.7 6.8	Point gpd 350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/16/17 12/16/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/23/17 12/24/17	Total romium mg/l NS Yes 0.20 0.20 1	Total Lead mg/ 0.8 Yes 0.00 0.00 1	Total Mercury mg/l mg/l	Total Cyanide mg/l 3.0 Yes 1.20 1.20 1.20 1	Total Phenois mg/l 5.0 Yes 0.00 0.00 1	Point pH 5.0 9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0 6.7 6.8	Point gpd 350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/16/17 12/16/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/23/17 12/24/17	romium mg/l NS Yes 0.20 0.20 1	Lead mg/	Mercury mg/l 0.025 0.005 Yes 0.000 0.000 1	Cyanide mg/l 3.0 Yes 1.20 1.20 1.21	Phenols mg/l 5.0 Yes 0.00 0.00 1	Point pH 5.0 9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0 6.7 6.8	Point gpd 350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/16/17 12/16/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/23/17 12/24/17	mg/l NS Yes 0.20 0.20 0.20 1	mg/ 0.8 Yes 0.00 0.00 0.00	mg/l 3 0.025 0.005 3 Yes 0.000 0.000 1	mg/l 3.0 Yes 1.20 1.20 1.20 1	mg/l 5.0 Yes 0.00 0.00 1	pH 5.0 9.0 9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0	Point gpd 350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Units: POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/16/17 12/16/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/23/17 12/24/17	mg/l NS Yes 0.20 0.20 0.20 1	0.8 Yes 0.00 0.00 0.00 1	mg/l 3 0.025 0.005 3 Yes 0.000 0.000 1	mg/l 3.0 Yes 1.20 1.20 1.20 1	5.0 Yes 0.00 0.00 0.00 1	5.0 9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9	350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
POTW Permit or min Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/05/17 12/06/17 12/09/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/16/17 12/16/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/20/17 12/23/17 12/24/17	NS Yes 0.20 0.20 0.20 1	0.8 Yes 0.00 0.00 0.00 1	0.025 0.005 Yes 0.000 0.000 0.000	3.0 Yes 1.20 1.20 1.20 1	5.0 Yes 0.00 0.00 0.00 1	9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0 6.7 6.8	350,000 175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Daily max. Monthly ave. Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/05/17 12/05/17 12/06/17 12/09/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/16/17 12/16/17 12/18/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/20/17 12/23/17 12/24/17	Yes 0.20 0.20 0.20 1	Yes 0.00 0.00 0.00 1	0.005 Yes 0.00 0.00 0.00 1	Yes 1.20 1.20 1.20	Yes 0.00 0.00 0.00 1	9.0 Yes 6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 7.0 6.7 6.8	175,000 Yes 21,000 29,097 40,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/08/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/15/17 12/16/17 12/18/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/20/17 12/23/17 12/24/17	Yes 0.20 0.20 0.20 1	0.00 0.00 0.00 1	Yes 0.00 0.00 0.00 1	1.20 1.20 1.20	Yes 0.00 0.00 0.00 1	6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	Yes 21,000 29,097 40,000 31 34,000 31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
Compliance Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/08/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/11/17 12/15/17 12/15/17 12/16/17 12/18/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/20/17 12/23/17 12/24/17	0.20 0.20 0.20 1	0.00 0.00 0.00 1	0.00 0.00 0.00 1	1.20 1.20 1.20	0.00 0.00 0.00 1	6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	Yes 21,000 29,097 40,000 31 34,000 31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
Monthly min Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/13/17 12/14/17 12/15/17 12/16/17 12/18/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/21/17 12/23/17 12/24/17	0.20 0.20 0.20 1	0.00 0.00 0.00 1	0.00 0.00 0.00 1	1.20 1.20 1.20	0.00 0.00 0.00 1	6.7 6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	21,000 29,097 40,000 31 34,000 31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
Monthly ave Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/15/17 12/15/17 12/16/17 12/18/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/19/17 12/20/17 12/20/17 12/23/17 12/24/17	0.20 0.20 1	0.00 0.00 1	0.00 0.00 1	1.20 1.20 1	0.00	6.9 7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7 6.7	29,097 40,000 31 34,000 31,000 40,000 38,000 39,000 37,000 39,000 26,000 25,000
Monthly max Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/12/17 12/15/17 12/16/17 12/18/17 12/19/17 12/19/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17	0.20	0.00	0.00	1.20	0.00	7.0 31 7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	34,000 31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
Data points 12/01/17 12/02/17 12/03/17 12/04/17 12/05/17 12/06/17 12/06/17 12/08/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/11/17 12/13/17 12/15/17 12/16/17 12/18/17 12/19/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17	1	1	1	1	1	7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	31 34,000 31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
12/01/17 12/02/17 12/03/17 12/03/17 12/04/17 12/05/17 12/06/17 12/06/17 12/08/17 12/09/17 12/10/17 12/11/17 12/12/17 12/13/17 12/15/17 12/15/17 12/18/17 12/19/17 12/20/17 12/21/17 12/21/17 12/21/17 12/22/17 12/23/17						7.0 6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	34,000 31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
12/02/17 12/03/17 12/03/17 12/04/17 12/05/17 12/06/17 12/06/17 12/08/17 12/09/17 12/10/17 12/11/17 12/12/17 12/13/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17	0.200 B	F 0.002	. J ND	1.200	MD	6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
12/02/17 12/03/17 12/03/17 12/04/17 12/05/17 12/06/17 12/06/17 12/08/17 12/09/17 12/10/17 12/11/17 12/12/17 12/13/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17	0.200 B	F 0.002	. J ND	1.200	MD	6.7 6.8 6.8 6.9 7.0 6.8 6.9 6.7	31,000 40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
12/03/17 12/04/17 12/04/17 12/05/17 12/06/17 12/06/17 12/08/17 12/09/17 12/10/17 12/11/17 12/12/17 12/13/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17	0.200 B	F 0.002	. J ND	1.200	MD	6.8 6.8 6.9 7.0 6.8 6.9 6.7	40,000 38,000 39,000 32,000 37,000 39,000 26,000 25,000
12/04/17 12/05/17 12/06/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/12/17 12/13/17 12/14/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17	0.200 B	F 0.002	. J ND	1.200	MD	6.8 6.9 7.0 6.8 6.9 6.7 6.7	38,000 39,000 32,000 37,000 39,000 26,000 25,000
12/05/17 12/06/17 12/06/17 12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/12/17 12/13/17 12/14/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/21/17 12/23/17 12/24/17	0.200 B	F 0.002	J ND	1.200	MD	6.9 7.0 6.8 6.9 6.7 6.7	39,000 32,000 37,000 39,000 26,000 25,000
12/06/17 12/07/17 12/08/17 12/08/17 12/09/17 12/10/17 12/11/17 12/12/17 12/13/17 12/14/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17	0.200 B	F 0.002	J ND	1.200	ND	7.0 6.8 6.9 6.7 6.7	32,000 37,000 39,000 26,000 25,000
12/07/17 12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/13/17 12/14/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/22/17 12/23/17	0.200 B	F 0.002	J ND	1.200	ND	6.8 6.9 6.7 6.7	37,000 39,000 26,000 25,000
12/08/17 12/09/17 12/10/17 12/11/17 12/11/17 12/13/17 12/14/17 12/15/17 12/16/17 12/18/17 12/19/17 12/20/17 12/22/17 12/23/17 12/24/17	0.200 B	F 0.002	. J ND	1.200	ND	6.9 6.7 6.7	39,000 26,000 25,000
12/09/17 12/10/17 12/11/17 12/11/17 12/12/17 12/13/17 12/14/17 12/15/17 12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/22/17 12/23/17 12/24/17	0.200 B	F 0.002	. J ND	1.200	ND	6.7 6.7	26,000 25,000
12/10/17 12/11/17 12/11/17 12/13/17 12/14/17 12/15/17 12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17	0.200 B	F 0.002	. J ND	1.200	ND	6.7	25,000
12/11/17 12/12/17 12/13/17 12/14/17 12/15/17 12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17	0.200 B	F 0.002	! J ND	1.200	ND		
12/12/17 12/13/17 12/14/17 12/15/17 12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17					ND		27,000
12/13/17 12/14/17 12/15/17 12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						6.8	27,000
12/14/17 12/15/17 12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						6.8	27,000
12/15/17 12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						6.8	28,000
12/16/17 12/17/17 12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						7.0	24,000
12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						6.8	21,000
12/18/17 12/19/17 12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						6.8	21,000
12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						6.9	26,000
12/20/17 12/21/17 12/22/17 12/23/17 12/24/17						6.9	25,000
12/21/17 12/22/17 12/23/17 12/24/17						7.0	24,000
12/23/17 12/24/17						6.8	25,000
12/23/17 12/24/17						6.8	23,000
						6.7	25,000
						6.9	25,000
12/25/17						7.0	37,000
12/26/17						6.9	24,000
12/27/17						7.0	25,000
12/28/17						6.7	29,000
12/29/17			<u> </u>	·	-	6.8	34,000
12/30/17						6.8	26,000
12/31/11						6.9	38,000
Monthly Average for Ch			-			<u> </u>	
Concentration	0.20 m						
Ave. Flow	29,097 gp	pd					
Ave. Load							
PERMIT	0.05 #/	/day					
Notes:	0.05 #/ 3.10 #/						
ND = Non-Detect. Value							

ATTACHMENT 2 ANALYTICAL DATA



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-144028-1

Client Project/Site: Hercules Glens Falls O&M Monthly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Authorized for release by:

10/17/2017 1:41:43 PM

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

·····LINKS ·······

Review your project results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-144028-1

Qualifiers

Metals

Qualifier **Qualifier Description**

Ū Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DI DA DE IN	Indicates a Dilution. De anglusia. De autraction or additional Initial matela/anian anglusia of the comple

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

PQL Practical Quantitation Limit

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Page 2 of 13

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-144028-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-144028-1	POTW_20171004	Water	10/04/17 11:45	10/06/17 09:00

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

Job ID: 680-144028-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M Monthly POTW

Report Number: 680-144028-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 10/06/2017; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.9° C.

TOTAL METALS (ICPMS)

Sample POTW_20171004 (680-144028-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 10/09/2017 and analyzed on 10/12/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_20171004 (680-144028-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 10/09/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_20171004 (680-144028-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 10/12/2017.

Sample POTW 20171004 (680-144028-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_20171004 (680-144028-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 10/17/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 680-144028-1

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Client Sample Results

Client: Ashland LLC

Phenolics, Total Recoverable

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-144028-1

Lab Sample ID: 680-144028-1

10/17/17 09:45 10/17/17 10:45

Matrix: Water

Date Collected: 10)/04/17 11:4 5
Date Received: 10	/06/17 09:00

Client Sample ID: POTW_20171004

Method: 200.8 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	190		5.0	1.6	ug/L		10/09/17 16:36	10/12/17 04:03	1
Lead	2.5	U	2.5	0.98	ug/L		10/09/17 16:36	10/12/17 04:03	1
Method: 245.1 - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		-,				_		,y = 0 u.	D a0
Mercury	0.20		0.20	0.080	ug/L	=	10/09/17 11:10	10/09/17 20:57	1
					ug/L	=			1
Mercury	0.20				Ü				1 Dil Fac

0.050

0.025 mg/L

0.050 U

10/17/2017

TestAmerica Job ID: 680-144028-1

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-497804/1-A **Matrix: Water**

Analysis Batch: 498265

Client Sample ID: Method Blank **Prep Type: Total/NA Prep Batch: 497804**

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		10/09/17 16:36	10/12/17 02:02	1
Lead	2.5	U	2.5	0.98	ug/L		10/09/17 16:36	10/12/17 02:02	1

Lab Sample ID: LCS 680-497804/2-A **Matrix: Water**

Analysis Batch: 498265

			Clie	nt Sar	nple ID	: Lab Control Sample
					-	Prep Type: Total/NA
						Prep Batch: 497804
Spike	LCS	LCS				%Rec.
A al al a al	Daguile	Ouglifier	I Imit	_	0/ Daa	Limita

Analyte Added Result Qualifier Unit Limits %Rec Chromium 100 103 ug/L 103 85 - 115 500 535 ug/L Lead 107 85 - 115

RL

RL

0.010

0.20

Spike

Added

2.50

Spike

Added

0.0500

MDL Unit

0.080 ug/L

LCS LCS

2.49

Result Qualifier

MDL Unit

0.0025 mg/L

LCS LCS

0.0525

Result Qualifier

Unit

ug/L

Unit

mg/L

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-497760/1-A

Matrix: Water

Analysis Batch: 497886

MD MD

	1410	IVID
Analyte	Result	Qualifier
Mercury	0.20	U

٠.	- 1-	Camala	ID. I	00.0	200	107760/2	
		-					

Lab Sample ID: LCS 680-497760/2-A **Matrix: Water**

Analysis Batch: 497886

Allulysis	Daton: 407000
Analyte	

Method:	3354 -	Cyanide	Total

Lab Sample ID: MB 680-498207/1-A

Matrix: Water

Mercury

Analysis Batch: 498277

MB MB

0.010 U

Result Qualifier

Analyte

Cyanide, Tota	al			
_				

Lab Sample ID: LCS 680-498207/2-A **Matrix: Water**

Analysis Batch: 498277

Analyte Cyanide, Total **Client Sample ID: Method Blank** Prep Type: Total/NA

Prep Batch: 497760

Dil Fac

Dil Fac

Analyzed

10/09/17 11:10 10/09/17 19:56

Prepared

Prepared

D %Rec

105

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 497760**

%Rec.

%Rec Limits 100 85 - 115

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 498207

Analyzed

Client Sample ID: Lab Control Sample

<u>10/12/17 05:49</u> <u>10/12/17 11:20</u>

Prep Type: Total/NA **Prep Batch: 498207**

%Rec. Limits

90 - 110

10/17/2017

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-144028-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-498782/1-A **Matrix: Water**

Lab Sample ID: LCS 680-498782/2-A

Analysis Batch: 498817

Analysis Batch: 498817

Phenolics, Total Recoverable

Matrix: Water

Analyte

MB MB

Analyte Result Qualifier Phenolics, Total Recoverable

0.050 U

RL 0.050

Spike

Added

0.100

MDL Unit 0.025 mg/L

LCS LCS

0.0945

Result Qualifier

Prepared

Unit

mg/L

<u>10/17/17 09:45</u> <u>10/17/17 10:38</u>

Client Sample ID: Method Blank

Analyzed

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 498782

Dil Fac

Prep Batch: 498782 %Rec.

Limits

D %Rec

95

75 - 125

TestAmerica Savannah

QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-144028-1

Metals

Prep Batch: 497760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-144028-1	POTW_20171004	Total/NA	Water	245.1	
MB 680-497760/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-497760/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 497804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-144028-1	POTW_20171004	Total/NA	Water	200.8	
MB 680-497804/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-497804/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 497886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-144028-1	POTW_20171004	Total/NA	Water	245.1	497760
MB 680-497760/1-A	Method Blank	Total/NA	Water	245.1	497760
LCS 680-497760/2-A	Lab Control Sample	Total/NA	Water	245.1	497760

Analysis Batch: 498265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-144028-1	POTW_20171004	Total/NA	Water	200.8	497804
MB 680-497804/1-A	Method Blank	Total/NA	Water	200.8	497804
LCS 680-497804/2-A	Lab Control Sample	Total/NA	Water	200.8	497804

General Chemistry

Prep Batch: 498207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-144028-1	POTW_20171004	Total/NA	Water	Distill/CN	
MB 680-498207/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-498207/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 498277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-144028-1	POTW_20171004	Total/NA	Water	335.4	498207
MB 680-498207/1-A	Method Blank	Total/NA	Water	335.4	498207
LCS 680-498207/2-A	Lab Control Sample	Total/NA	Water	335.4	498207

Prep Batch: 498782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-144028-1	POTW_20171004	Total/NA	Water	Distill/Phenol	
MB 680-498782/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-498782/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 498817

-	_					
	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	680-144028-1	POTW_20171004	Total/NA	Water	420.1	498782
	MB 680-498782/1-A	Method Blank	Total/NA	Water	420.1	498782
	LCS 680-498782/2-A	Lab Control Sample	Total/NA	Water	420 1	498782

TestAmerica Savannah

10/17/2017

Lab Chronicle

Client: Ashland LLC

Client Sample ID: POTW 20171004

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-144028-1

Lab Sample ID: 680-144028-1

Matrix: Water

Date Collected: 10/04/17 11:45 Date Received: 10/06/17 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			497804	10/09/17 16:36	BCB	TAL SAV
Total/NA	Analysis	200.8		1	498265	10/12/17 04:03	BWR	TAL SAV
Total/NA	Prep	245.1			497760	10/09/17 11:10	NVF	TAL SAV
Total/NA	Analysis	245.1		1	497886	10/09/17 20:57	NVF	TAL SAV
Total/NA	Prep	Distill/CN			498207	10/12/17 05:49	DAM	TAL SAV
Total/NA	Analysis	335.4		10	498277	10/12/17 11:19	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			498782	10/17/17 09:45	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	498817	10/17/17 10:45	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 680-144028-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17 *
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-18
lowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP	•	L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
-		4	9925 N/A	06-30-17
Mississippi Nebraska	State Program	7		
Nebraska	State Program		TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma 	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-18
Texas -	NELAP	6	T104704185-16-9	11-30-17
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Savannah

10/17/2017

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Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-144028-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: Ashland LLC Job Number: 680-144028-1

Login Number: 144028 List Source: TestAmerica Savannah

List Number: 1

Creator: Anderson, Jordan K

Creator. Anderson, Jordan K		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-145295-1

Client Project/Site: Hercules Glens Falls O&M Monthly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Ashi Barrett

Authorized for release by: 11/21/2017 7:56:07 AM

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

·····LINKS ·······

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-145295-1

Qualifiers

Metals

Qualifier **Qualifier Description**

Ū Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin)

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

PQL Practical Quantitation Limit

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Page 2 of 13

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-145295-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145295-1	POTW_20171107	Water	11/07/17 11:00	11/08/17 09:00

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

Job ID: 680-145295-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M Monthly POTW

Report Number: 680-145295-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 11/08/2017; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.6° C.

TOTAL METALS (ICPMS)

Sample POTW_20171107 (680-145295-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared and analyzed on 11/13/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_20171107 (680-145295-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 11/09/2017 and analyzed on 11/17/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_20171107 (680-145295-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 11/15/2017.

Sample POTW 20171107 (680-145295-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_20171107 (680-145295-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 11/17/2017. .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page

TestAmerica Job ID: 680-145295-1

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Client Sample Results

Client: Ashland LLC

TestAmerica Job ID: 680-145295-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Date Collected: 11/07/17 11:00 Matrix: Water

Date Received: 11/08/17 09:00

Method: 200.8 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	160		5.0	1.6	ug/L		11/13/17 11:40	11/13/17 18:13	1
Lead	2.5	U	2.5	0.98	ug/L		11/13/17 11:40	11/13/17 18:13	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U –	0.20	0.080	ug/L		11/09/17 13:07	11/17/17 16:51	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.69		0.10	0.025	mg/L		11/15/17 06:00	11/15/17 11:46	10
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		11/17/17 09:07	11/17/17 10:43	1

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RL

5.0

2.5

RL

RL

0.010

Spike

Added

0.0500

0.20

Spike

Added

100

500

Spike

Added

2.50

MDL Unit

1.6 ug/L

0.98 ug/L

LCS LCS

105

501

Result Qualifier

MDL Unit

0.080 ug/L

LCS LCS

2.47

Result Qualifier

MDL Unit

0.0025 mg/L

LCS LCS

0.0486

Result Qualifier

Unit

ug/L

Unit

ug/L

Unit

mg/L

TestAmerica Job ID: 680-145295-1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 502361

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-502361/1-A **Matrix: Water**

Analysis Batch: 502495

Analyte

Client: Ashland LLC

MB	MB
Result	Qualifier

U

0.20 U

0.010 U

l	Chromium	5.0
L	Lead	2.5

Lab Sample ID: LCS 680-502361/2-A **Matrix: Water**

Analysis Batch: 502495

Analyte	

Chromium Lead

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-501982/1-A

Matrix: Water

Analysis Batch: 503154

MB MB Result Qualifier

Analyte

Mercury Lab Sample ID: LCS 680-501982/2-A

Matrix: Water

Analysis Batch: 503154

Analyte

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-502634/1-A

Matrix: Water

Mercury

Analysis Batch: 502704

MB MB Result Qualifier

Analyte

Cyanide, Total

Lab Sample ID: LCS 680-502634/2-A **Matrix: Water**

Analysis Batch: 502704

Analyte Cyanide, Total **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

<u>11/13/17 11:40</u> <u>11/13/17 16:56</u>

11/13/17 11:40 11/13/17 16:56

Prep Batch: 502361 %Rec.

Analyzed

%Rec Limits 105 85 - 115

ug/L 100 85 - 115

Prepared

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 501982

Prepared Analyzed Dil Fac 11/09/17 13:07 11/17/17 16:18

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 501982**

%Rec.

%Rec Limits 99 85 - 115

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 502634

Dil Fac

Analyzed

11/15/17 06:00 11/15/17 11:03 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA **Prep Batch: 502634**

%Rec. Limits

D %Rec 97 90 - 110

Prepared

Dil Fac

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 680-145295-1

RL

0.050

Spike

Added

0.100

MDL Unit

0.025 mg/L

LCS LCS

0.0935

Result Qualifier

Unit

mg/L

Project/Site: Hercules Glens Falls O&M Monthly POTW

Method: 420.1 - Phenolics, Total Recoverable

0.050 U

Lab Sample ID: MB 680-503015/1-A **Matrix: Water**

Analysis Batch: 503097

Phenolics, Total Recoverable

MB MB Analyte Result Qualifier

Lab Sample ID: LCS 680-503015/2-A

Matrix: Water Analysis Batch: 503097

Analyte

Phenolics, Total Recoverable

Prep Batch: 503015 Prepared Analyzed Dil Fac

Client Sample ID: Method Blank

<u>11/17/17 09:07</u> <u>11/17/17 10:36</u> **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA **Prep Batch: 503015**

Prep Type: Total/NA

%Rec. Limits

D %Rec 94 75 - 125

QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-145295-1

Prep	Bat	ch: 5	019	982
------	------------	-------	-----	-----

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	245.1	
MB 680-501982/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-501982/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 502361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	200.8	
MB 680-502361/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-502361/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 502495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	200.8	502361
MB 680-502361/1-A	Method Blank	Total/NA	Water	200.8	502361
LCS 680-502361/2-A	Lab Control Sample	Total/NA	Water	200.8	502361

Analysis Batch: 503154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	245.1	501982
MB 680-501982/1-A	Method Blank	Total/NA	Water	245.1	501982
LCS 680-501982/2-A	Lab Control Sample	Total/NA	Water	245.1	501982

General Chemistry

Prep Batch: 502634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	Distill/CN	
MB 680-502634/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-502634/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 502704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	335.4	502634
MB 680-502634/1-A	Method Blank	Total/NA	Water	335.4	502634
LCS 680-502634/2-A	Lab Control Sample	Total/NA	Water	335.4	502634

Prep Batch: 503015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	Distill/Phenol	
MB 680-503015/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-503015/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 503097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145295-1	POTW_20171107	Total/NA	Water	420.1	503015
MB 680-503015/1-A	Method Blank	Total/NA	Water	420.1	503015
LCS 680-503015/2-A	Lab Control Sample	Total/NA	Water	420.1	503015

TestAmerica Savannah

11/21/2017

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-145295-1

Lab Sample ID: 680-145295-1

Matrix: Water

Client Sample ID: POTW_20171107 Date Collected: 11/07/17 11:00

Date Received: 11/08/17 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			502361	11/13/17 11:40	BJB	TAL SAV
Total/NA	Analysis	200.8		1	502495	11/13/17 18:13	BJB	TAL SAV
Total/NA	Prep	245.1			501982	11/09/17 13:07	BCB	TAL SAV
Total/NA	Analysis	245.1		1	503154	11/17/17 16:51	BCB	TAL SAV
Total/NA	Prep	Distill/CN			502634	11/15/17 06:00	DAM	TAL SAV
Total/NA	Analysis	335.4		10	502704	11/15/17 11:46	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			503015	11/17/17 09:07	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	503097	11/17/17 10:43	CFJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 680-145295-1

Project/Site: Hercules Glens Falls O&M Monthly POTW

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

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Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls O&M Monthly POTW

TestAmerica Job ID: 680-145295-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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	Chain of Custody Number 296349	Special Instructions/ Conditions of Receipt	680-145295 Chain of Custody	(A fee may be assessed if samples are retained fonger than 1 month) Date
THE LEADER IN ENVIRONMENTAL TESTING	Lab Number Lab Number Lab Number Analysis (Attach list if Sanore space is needed)	P = 1 She > 1 - 447 8 308 > 1	680-145295	Archive For Months
Temperature on Receipt	Project Manager Telephone Number (Area Code) Fax Number 6 4 - 790 - 6 46 Sile Contact 81 ya \(\text{R} \) Rel\(\text{S} \) Lab Contact 3 \(\text{S} - 949 - 7633 \) Camer Waybill Number	Matrix Matrix Matrix Containers & Preservatives HOSI HOSI HOSI HOSI HOSI Authors Sed Authors Author		OC Requirements (Sp. 1. Received By 2. Received By 3. Received By
Custody Record 480501-Albany Dring	Shland LLC State for K way State State State Shin State Mathly DONS	ContractPurchase Order/Quote No. Sample I.D. No. and Description (Containers for each sample may be combined on one line) \[\int(\text{T/I} \) \]		Possible Hazard Identification Turn Around Time Required Turne Turne Turne Turne Turne Turne Turne Date Turne Distribution: WHITE - Returned to Client with Report: CANARY - Stays with the Sample; PliNK - Field Copy

Job Number: 680-145295-1

Client: Ashland LLC

Login Number: 145295 List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

Creator: Flanagan, Naomi V					
Question	Answer	Comment			
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A				
The cooler's custody seal, if present, is intact.	True				
Sample custody seals, if present, are intact.	True				
The cooler or samples do not appear to have been compromised or tampered with.	True				
Samples were received on ice.	True				
Cooler Temperature is acceptable.	True				
Cooler Temperature is recorded.	True				
COC is present.	True				
COC is filled out in ink and legible.	True				
COC is filled out with all pertinent information.	True				
Is the Field Sampler's name present on COC?	True				
There are no discrepancies between the containers received and the COC.	True				
Samples are received within Holding Time (excluding tests with immediate HTs)	True				
Sample containers have legible labels.	True				
Containers are not broken or leaking.	True				
Sample collection date/times are provided.	True				
Appropriate sample containers are used.	True				
Sample bottles are completely filled.	True				
Sample Preservation Verified.	True				
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True				
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A				
Multiphasic samples are not present.	True				
Samples do not require splitting or compositing.	True				
Residual Chlorine Checked.	N/A				

TestAmerica Savannah

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-128768-1

Client Project/Site: Hercules Glens Falls Annual POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Addin Barnott "

Authorized for release by: 12/27/2017 3:50:18 PM

Eddie Barnett, Project Manager I (912)354-7858

eddie.barnett@testamericainc.com

·····LINKS ·······

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Have a Question?



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Project/Site: Hercules Glens Falls Annual POTW

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Definitions/Glossary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Qualifiers

GC/MS VOA

Quaimer	Quaimer Description
11	Indicates the analyte was analyted for but not date

Indicates the analyte was analyzed for but not detected.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

MS and/or MSD Recovery is outside acceptance limits. U Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

В Compound was found in the blank and sample. F1 MS and/or MSD Recovery is outside acceptance limits.

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
HE	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request

Glossary A bbrowietien

Appreviation	These commonly used abbreviations may or may not be present in this report.
a	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid

CNF Contains No Free Liquid DER

Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

These commonly used abbreviations may ar may not be present in this report

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TestAmerica Buffalo

Page 3 of 31 12/27/2017

Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Job ID: 480-128768-1

Laboratory: TestAmerica Buffalo

Narrative

CASE NARRATIVE Client: Ashland LLC Project: Hercules Glens Falls Annual POTW

Report Number: 480-128768-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 12/12/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples POTW_20171211 (480-128768-1) and TRIP BLANK (480-128768-2) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA Method 624. The samples were analyzed on 12/18/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample POTW_20171211 (480-128768-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA Method 625. The sample was prepared on 12/15/2017 and analyzed on 12/19/2017.

The following samples contained residual chlorine upon receipt: POTW_20171211 (480-128768-1), (480-128768-C-1 MS) and (480-128768-C-1 MSD).

2,4,5-Trichlorophenol recovered low for the MS of sample POTW_20171211MS (480-128768-1) in batch 680-507074. 2,4,5-Trichlorophenol recovered low for the MSD of sample POTW_20171211MSD (480-128768-1) in batch 680-507074. Refer to the QC report for details.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Sample POTW_20171211 (480-128768-1) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The sample was prepared on 12/21/2017 and analyzed on 12/22/2017.

Calcium recovered high for the MS of sample POTW_20171211MS (480-128768-1) in batch 680-507501. Calcium recovered low for the MSD of sample POTW 20171211MSD (480-128768-1) in batch 680-507501. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample POTW_20171211 (480-128768-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 12/21/2017 and analyzed on 12/22/2017.

Chromium was detected in method blank MB 680-507396/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Job ID: 480-128768-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

and/or RL, the result has been flagged. Refer to the QC report for details.

Chromium recovered high for the MS of sample POTW_20171211MS (480-128768-1) in batch 680-507519. Chromium recovered high for the MSD of sample POTW_20171211MSD (480-128768-1) in batch 680-507519. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_20171211 (480-128768-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 12/14/2017 and analyzed on 12/19/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

OIL AND GREASE AND TPH

Sample POTW_20171211 (480-128768-1) was analyzed for Oil and Grease and TPH in accordance with EPA Method 1664A. The sample was prepared and analyzed on 12/26/2017.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 680-507654.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample POTW_20171211 (480-128768-1) was analyzed for total suspended solids in accordance with SM 2540D. The sample was analyzed on 12/14/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_20171211 (480-128768-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 12/15/2017.

Sample POTW_20171211 (480-128768-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA

Sample POTW_20171211 (480-128768-1) was analyzed for ammonia in accordance with EPA Method 350.1. The sample was analyzed on 12/20/2017.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_20171211 (480-128768-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 12/20/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

BIOCHEMICAL OXYGEN DEMAND

Sample POTW_20171211 (480-128768-1) was analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The sample was analyzed on 12/13/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

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Case Narrative

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Job ID: 480-128768-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Sample POTW_20171211 (480-128768-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The sample was analyzed on 12/27/2017.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample was analyzed in the laboratory outside the 15 minute timeframe.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Client Sample ID: POTW_20171211

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
рН	8.2	HF			SU	1	_	SM 4500 H+ B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.77	J	1.0	0.48	ug/L	1	_	624	Total/NA
Boron	120		100	36	ug/L	1		200.7 Rev 4.4	Total/NA
Calcium	46000		500	25	ug/L	1		200.7 Rev 4.4	Total/NA
Antimony	2.7	J	5.0	0.50	ug/L	1		200.8	Total/NA
Cadmium	0.89		0.50	0.15	ug/L	1		200.8	Total/NA
Chromium	200	B F1	5.0	1.6	ug/L	1		200.8	Total/NA
Copper	2.0	J	5.0	1.7	ug/L	1		200.8	Total/NA
Iron	370		100	25	ug/L	1		200.8	Total/NA
Lead	2.3	J	2.5	0.98	ug/L	1		200.8	Total/NA
Manganese	8.8		5.0	1.8	ug/L	1		200.8	Total/NA
Nickel	2.6	J	5.0	1.9	ug/L	1		200.8	Total/NA
Zinc	9.9	J	20		ug/L	1		200.8	Total/NA
Cyanide, Total	1.2		0.10	0.025	mg/L	10		335.4	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-128768-2

No Detections.

Project/Site: Hercules Glens Falls Annual POTW

Date Collected: 12/11/17 15:15 Matrix: Water

Date Received: 12/12/17 03:10

Analyte	Possile	ds (GC/MS Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	1.0		1.0	0.43			Frepareu	12/18/17 21:54	
					_				
Chloroform			1.0	0.50	-			12/18/17 21:54	
Ethylbenzene	1.0		1.0	0.33	-			12/18/17 21:54	
Methylene Chloride	5.0		5.0		ug/L			12/18/17 21:54	
Toluene	0.77		1.0		ug/L			12/18/17 21:54	
I,1,1-Trichloroethane	1.0	U	1.0	0.37	-			12/18/17 21:54	
(ylenes, Total	2.0	U	2.0	0.57	ug/L			12/18/17 21:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
oluene-d8 (Surr)	98		79 - 119					12/18/17 21:54	
,2-Dichloroethane-d4 (Surr)	83		70 - 130					12/18/17 21:54	
1-Bromofluorobenzene (Surr)	91		71 - 121					12/18/17 21:54	
Dibromofluoromethane (Surr)	103		77 - 129					12/18/17 21:54	
Method: 625 - Semivolatile Org	anic Com	oounds (G	C/MS)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
laphthalene	9.7	\overline{U}	9.7	0.68	ug/L		12/15/17 08:30	12/19/17 22:50	
rentachlorophenol	49	U	49		ug/L		12/15/17 08:30	12/19/17 22:50	
,4,6-Trichlorophenol	9.7	U	9.7	0.80	-		12/15/17 08:30	12/19/17 22:50	
,4,5-Trichlorophenol		U F1	9.7		ug/L			12/19/17 22:50	
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
Fluorobiphenyl	58		38 - 121					12/19/17 22:50	
-Fluorophenol	47		35 ₋ 110					12/19/17 22:50	
litrobenzene-d5	57		44 - 119					12/19/17 22:50	
henol-d5	51		27 - 119					12/19/17 22:50	
	39		27 - 119 10 - 165						
erphenyl-d14 ,4,6-Tribromophenol	65		34 - 132					12/19/17 22:50 12/19/17 22:50	
Sother de COO 7 David 4 - Matala	(IOD)								
Method: 200.7 Rev 4.4 - Metals		Ouglifier	RL	MDI	l lmi4	_	Dramarad	Amalumad	Dil E
nalyte		Qualifier	100	MDL 36		D	Prepared 12/21/17 12:58	Analyzed 12/22/17 02:10	Dil F
	120				ug/L				
alcium	46000		500	25	ug/L		12/21/17 12:58	12/22/17 02:10	
lethod: 200.8 - Metals (ICP/MS	•					_			
nalyte		Qualifier	RL _	MDL		D	Prepared	Analyzed	Dil F
ntimony	2.7		5.0	0.50	-		12/21/17 12:58		
rsenic	3.0	U	3.0		ug/L		12/21/17 12:58		
admium	0.89		0.50		ug/L			12/22/17 08:38	
hromium		B F1	5.0		ug/L			12/22/17 08:38	
opper	2.0	J	5.0		ug/L		12/21/17 12:58		
on	370		100		ug/L		12/21/17 12:58		
ead	2.3	J	2.5		ug/L		12/21/17 12:58	12/22/17 08:38	
langanese	8.8		5.0	1.8	ug/L		12/21/17 12:58	12/22/17 12:11	
lickel	2.6	J	5.0	1.9	ug/L		12/21/17 12:58	12/22/17 08:38	
ilver	1.0		1.0	0.10	ug/L		12/21/17 12:58	12/22/17 08:38	
inc	9.9	J	20		ug/L		12/21/17 12:58	12/22/17 08:38	
lethod: 245.1 - Mercury (CVA	4)								
inalyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
inary to									

TestAmerica Buffalo

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12/27/2017

Client Sample Results

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

General Chemistry Analyte pH		Qualifier HF	NONE	NONE	Unit SU	<u>D</u>	Prepared	Analyzed 12/27/17 09:36	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	4.7	U	4.7	1.3	mg/L		12/26/17 08:58	12/26/17 11:19	1
Cyanide, Total	1.2		0.10	0.025	mg/L		12/15/17 04:18	12/15/17 09:45	10
Ammonia	0.25	U	0.25	0.10	mg/L			12/20/17 10:56	1
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		12/20/17 09:33	12/20/17 10:28	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			12/13/17 05:26	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			12/14/17 06:42	1

Lab Sample ID: 480-128768-2 **Client Sample ID: TRIP BLANK**

Date Collected: 12/11/17 00:00

Date Received: 12/12/17 03:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			12/18/17 19:19	1
Chloroform	1.0	U	1.0	0.50	ug/L			12/18/17 19:19	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			12/18/17 19:19	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			12/18/17 19:19	1
Toluene	1.0	U	1.0	0.48	ug/L			12/18/17 19:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/18/17 19:19	1
Xylenes, Total	2.0	Ü	2.0	0.57	ug/L			12/18/17 19:19	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		79 - 119	-		12/18/17 19:19	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130			12/18/17 19:19	1
4-Bromofluorobenzene (Surr)	91		71 - 121			12/18/17 19:19	1
Dibromofluoromethane (Surr)	105		77 - 129			12/18/17 19:19	1

Matrix: Water

Surrogate Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

80-128768-1 POTW_20171211 98 83 91 103 80-128768-2 TRIP BLANK 95 93 91 105									
80-128768-1 POTW_20171211 98 83 91 103 80-128768-2 TRIP BLANK 95 93 91 105			TOL	DCA	BFB	DBFM			
80-128768-2 TRIP BLANK 95 93 91 105	Lab Sample ID	mple ID Client Sample ID	(79-119)	(70-130)	(71-121)	(77-129)			
	480-128768-1	8768-1 POTW_20171211	98	83	91	103			
00 000 50000000	480-128768-2	8768-2 TRIP BLANK	95	93	91	105			
CS 680-50683873 Lab Control Sample 94 95 90 106	LCS 680-506838/3	30-506838/3 Lab Control Sample	94	95	90	106			
CSD 680-506838/4 Lab Control Sample Dup 98 105 93 109	LCSD 680-506838/4	S80-506838/4 Lab Control Sample Dup	98	105	93	109			
IB 680-506838/7 Method Blank 95 89 88 105	MB 680-506838/7)-506838/7 Method Blank	95	89	88	105			

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)								
		FBP	2FP	NBZ	PHL	TPHL	TBP				
Lab Sample ID	Client Sample ID	(38-121)	(35-110)	(44-119)	(27-119)	(10-165)	(34-132)				
480-128768-1	POTW_20171211	58	47	57	51	39	65				
480-128768-1 MS	POTW_20171211	50	36	46	41	60	64				
480-128768-1 MSD	POTW_20171211	47	38	46	43	49	59				
LCS 680-506524/4-A	Lab Control Sample	62	56	61	60	61	67				
MB 680-506524/3-A	Method Blank	55	50	57	55	64	69				

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

TestAmerica Buffalo

12/27/2017

Project/Site: Hercules Glens Falls Annual POTW

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-506838/7

Matrix: Water

Client: Ashland LLC

Analysis Batch: 506838

Client Sample ID: Method Blank Prep Type: Total/NA

_	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			12/18/17 18:57	1
Chloroform	1.0	U	1.0	0.50	ug/L			12/18/17 18:57	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			12/18/17 18:57	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			12/18/17 18:57	1
Toluene	1.0	U	1.0	0.48	ug/L			12/18/17 18:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/18/17 18:57	1
Xylenes, Total	2.0	U	2.0	0.57	ug/L			12/18/17 18:57	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Toluene-d8 (Surr) 95 79 - 119 12/18/17 18:57 1,2-Dichloroethane-d4 (Surr) 89 70 - 130 12/18/17 18:57 4-Bromofluorobenzene (Surr) 88 71 - 121 12/18/17 18:57 Dibromofluoromethane (Surr) 105 77 - 129 12/18/17 18:57

Lab Sample ID: LCS 680-506838/3

Matrix: Water

Analysis Batch: 506838

Client Sample ID: Lab Control Sample Prep Type: Total/NA

LCS LCS Spike %Rec. D %Rec Analyte Added Result Qualifier Unit Limits Benzene 20.0 19.6 ug/L 98 37 - 151 Chloroform 20.0 21.8 ug/L 109 51 - 138 Ethylbenzene 20.0 19.6 ug/L 98 37 - 162Methylene Chloride 20.0 19.6 ug/L 98 1 - 221 Toluene 20.0 19.3 97 47 - 150 ug/L 1,1,1-Trichloroethane 20.0 21.6 ug/L 108 52 - 162 ug/L Xylenes, Total 40.0 39.0 98 78 - 119

LCS LCS %Recovery Qualifier Surrogate Limits Toluene-d8 (Surr) 94 79 - 119 1,2-Dichloroethane-d4 (Surr) 95 70 - 130 4-Bromofluorobenzene (Surr) 90 71 - 121 Dibromofluoromethane (Surr) 106 77 - 129

Lab Sample ID: LCSD 680-506838/4

Matrix: Water

Analysis Batch: 506838

Client Sample ID: Lab	Control Sample Dup
	Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	20.0	20.2		ug/L		101	37 - 151	3	30
Chloroform	20.0	22.9		ug/L		115	51 - 138	5	30
Ethylbenzene	20.0	20.5		ug/L		102	37 - 162	5	30
Methylene Chloride	20.0	20.2		ug/L		101	1 - 221	3	30
Toluene	20.0	20.1		ug/L		101	47 - 150	4	30
1,1,1-Trichloroethane	20.0	22.8		ug/L		114	52 - 162	5	30
Xylenes, Total	40.0	40.7		ug/L		102	78 - 119	4	30

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 506524

Prep Type: Total/NA

Project/Site: Hercules Glens Falls Annual POTW

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-506838/4

Matrix: Water

Client: Ashland LLC

Analysis Batch: 506838

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

LCSD LCSD %Recovery Qualifier Surrogate Limits Toluene-d8 (Surr) 98 79 - 119 1,2-Dichloroethane-d4 (Surr) 105 70 - 130 4-Bromofluorobenzene (Surr) 93 71 - 121 109 Dibromofluoromethane (Surr) 77 - 129

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-506524/3-A

Matrix: Water

Analysis Batch: 507074

MR MR Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Naphthalene 10 U 10 0.70 ug/L <u>12/15/17 08:30</u> <u>12/19/17 21:12</u> Pentachlorophenol 50 U 50 1.8 ug/L 12/15/17 08:30 12/19/17 21:12 10 U 10 2,4,6-Trichlorophenol 0.82 ug/L 12/15/17 08:30 12/19/17 21:12 10 2,4,5-Trichlorophenol 10 U 10 ug/L 12/15/17 08:30 12/19/17 21:12

MB MB Surrogate Qualifier Limits Prepared %Recovery Analyzed Dil Fac 55 38 - 121 <u>12/15/17 08:30</u> <u>12/19/17 21:12</u> 2-Fluorobiphenyl 2-Fluorophenol 50 35 - 110 12/15/17 08:30 12/19/17 21:12 Nitrobenzene-d5 57 44 - 119 12/15/17 08:30 12/19/17 21:12 Phenol-d5 55 27 - 119 12/15/17 08:30 12/19/17 21:12 Terphenyl-d14 64 10 - 165 12/15/17 08:30 12/19/17 21:12 2,4,6-Tribromophenol 69 34 - 132 12/15/17 08:30 12/19/17 21:12

Lab Sample ID: LCS 680-506524/4-A

Matrix: Water

Analysis Batch: 507074

Prep Batch: 506524 Spike LCS LCS %Rec. Added Limits **Analyte** Result Qualifier Unit D %Rec Naphthalene 100 64.8 ug/L 65 21 - 133 200 127 14 - 176 Pentachlorophenol ug/L 63 2,4,6-Trichlorophenol 100 69.2 ug/L 69 37 - 1442,4,5-Trichlorophenol 100 69.3 ug/L 69 62 - 119

LCS LCS Surrogate %Recovery Qualifier Limits 2-Fluorobiphenyl 62 38 - 121 2-Fluorophenol 56 35 - 110 Nitrobenzene-d5 61 44 - 119 Phenol-d5 60 27 - 119 Terphenyl-d14 61 10 - 165 2,4,6-Tribromophenol 67 34 - 132

12/27/2017

Project/Site: Hercules Glens Falls Annual POTW

Client: Ashland LLC

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-128768-1 MS Client Sample ID: POTW_20171211 **Matrix: Water Prep Type: Total/NA** Analysis Batch: 507074 **Prep Batch: 506524**

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Naphthalene	9.7	U	99.9	47.8		ug/L		48	21 - 133	
Pentachlorophenol	49	U	200	133		ug/L		67	14 - 176	
2,4,6-Trichlorophenol	9.7	U	99.9	57.2		ug/L		57	37 - 144	
2,4,5-Trichlorophenol	9.7	U F1	99.9	59.8	F1	ug/L		60	62 - 119	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	50		38 - 121
2-Fluorophenol	36		35 - 110
Nitrobenzene-d5	46		44 - 119
Phenol-d5	41		27 - 119
Terphenyl-d14	60		10 - 165
2,4,6-Tribromophenol	64		34 - 132

Lab Sample ID: 480-128768-1 MSD Client Sample ID: POTW_20171211 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 507074									Prep Ba	atch: 50	06524
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Naphthalene	9.7	U	94.4	43.9		ug/L		47	21 - 133	8	40
Pentachlorophenol	49	U	189	106		ug/L		56	14 - 176	23	40
2,4,6-Trichlorophenol	9.7	U	94.4	51.5		ug/L		55	37 - 144	11	40
2,4,5-Trichlorophenol	9.7	U F1	94.4	53.2	F1	ug/L		56	62 - 119	12	40

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	47		38 - 121
2-Fluorophenol	38		35 - 110
Nitrobenzene-d5	46		44 - 119
Phenol-d5	43		27 - 119
Terphenyl-d14	49		10 - 165
2,4,6-Tribromophenol	59		34 - 132

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-507397/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 507501

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	36	ug/L		12/21/17 12:58	12/22/17 02:00	1
Calcium	500	U	500	25	ug/L		12/21/17 12:58	12/22/17 02:00	1

Lab Sample ID: LCS 680-507397/2-A				Clie	nt Sar	nple ID	: Lab Control Sample
Matrix: Water							Prep Type: Total/NA
Analysis Batch: 507501							Prep Batch: 507397
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Boron	200	199		ug/L		100	85 ₋ 115

TestAmerica Buffalo

Prep Batch: 507397

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Client: Ashland LLC TestAmerica Job ID: 480-128768-1

Project/Site: Hercules Glens Falls Annual POTW

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-507397/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Prep Batch: 507397 **Analysis Batch: 507501**

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %Rec Limits Calcium 5000 5210 ug/L 104 85 - 115

Client Sample ID: POTW_20171211 Lab Sample ID: 480-128768-1 MS

Matrix: Water

Prep Type: Total/NA **Analysis Batch: 507501 Prep Batch: 507397** Sample Sample Spike MS MS %Rec.

Result Qualifier Added Result Qualifier Unit %Rec Limits Analyte D 200 322 120 75 - 125 Boron ug/L 102 Calcium 46000 5000 52500 4 75 - 125 ug/L 129

Lab Sample ID: 480-128768-1 MSD Client Sample ID: POTW 20171211

Matrix: Water

Prep Type: Total/NA Analysis Batch: 507501

Prep Batch: 507397 Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit

Boron 120 200 313 ug/L 98 75 - 125 3 20 Calcium 46000 5000 49100 4 60 20 ug/L 75 - 125 7

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-507396/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 507519 Prep Batch: 507396 MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0	U	5.0	0.50	ug/L		12/21/17 12:58	12/22/17 08:07	1
Arsenic	3.0	U	3.0	1.5	ug/L		12/21/17 12:58	12/22/17 08:07	1
Cadmium	0.50	U	0.50	0.15	ug/L		12/21/17 12:58	12/22/17 08:07	1
Chromium	1.99	J	5.0	1.6	ug/L		12/21/17 12:58	12/22/17 08:07	1
Copper	5.0	U	5.0	1.7	ug/L		12/21/17 12:58	12/22/17 08:07	1
Lead	2.5	U	2.5	0.98	ug/L		12/21/17 12:58	12/22/17 08:07	1
Nickel	5.0	U	5.0	1.9	ug/L		12/21/17 12:58	12/22/17 08:07	1
Silver	1.0	U	1.0	0.10	ug/L		12/21/17 12:58	12/22/17 08:07	1
Zinc	20	U	20	9.6	ug/L		12/21/17 12:58	12/22/17 08:07	1

Lab Sample ID: MB 680-507396/1-A Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA **Analysis Batch: 507540** Prep Batch: 507396 MB MB

Analyte Result Qualifier RI **MDL** Unit D Prepared Analyzed Dil Fac Iron 100 U 100 25 ug/L 12/21/17 12:58 12/22/17 11:45

5.0 U 5.0 1.8 ug/L 12/21/17 12:58 12/22/17 11:45 Manganese Lab Sample ID: LCS 680-507396/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA **Analysis Batch: 507519 Prep Batch: 507396** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits 50.0 56.2 Antimony 85 - 115 ug/L 112

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85 - 115

85 - 115

111

109

Project/Site: Hercules Glens Falls Annual POTW

Client: Ashland LLC

Silver

Zinc

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-507396/2-A Matrix: Water Analysis Batch: 507519	Client Sample IE					mple ID	Prep Type: Total/NA Prep Batch: 507396	
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	100	111	-	ug/L		111	85 - 115	
Cadmium	50.0	55.7		ug/L		111	85 - 115	
Chromium	100	113		ug/L		113	85 - 115	
Copper	100	115		ug/L		115	85 - 115	
Lead	500	561		ug/L		112	85 - 115	
Nickel	100	115		ua/l		115	85 - 115	

55.5

109

ug/L

ug/L

Lab Sample ID: LCS 680-507396/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 507540 Prep Batch: 507396 Spike LCS LCS %Rec. Added Result Qualifier D %Rec Limits **Analyte** Unit 5000 Iron 5060 ug/L 101 85 - 115 ug/L Manganese 500 496 99 85 - 115

50.0

100

Lab Sample ID: 480-128768-1 MS Client Sample ID: POTW_20171211 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 507519 Prep Batch: 507396**

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	2.7	J	50.0	64.6		ug/L		124	70 - 130	
Arsenic	3.0	U	100	123		ug/L		123	70 - 130	
Cadmium	0.89		50.0	61.8		ug/L		122	70 - 130	
Chromium	200	BF1	100	347	F1	ug/L		145	70 - 130	
Copper	2.0	J	100	125		ug/L		123	70 - 130	
Lead	2.3	J	500	604		ug/L		120	70 - 130	
Nickel	2.6	J	100	125		ug/L		123	70 - 130	
Silver	1.0	U	50.0	58.0		ug/L		116	70 - 130	
Zinc	9.9	J	100	129		ug/L		119	70 - 130	

Lab Sample ID: 480-128768-1 MS Client Sample ID: POTW_20171211 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 507540 Prep Batch: 507396 Spike MS MS Sample Sample %Rec. Result Qualifier Added Result Qualifier %Rec Limits **Analyte** Unit 370 5000 6030 70 - 130 113 Iron ug/L Manganese 8.8 500 549 ug/L 108 70 - 130

Lab Sample ID: 480-128768-1 MSD Client Sample ID: POTW_20171211 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 507519** Prep Batch: 507396 MSD MSD Sample Sample Spike %Rec. **RPD** Result Qualifier Added **Analyte** Result Qualifier Unit D %Rec Limits **RPD** Limit Antimony 2.7 J 50.0 64.7 ug/L 124 70 - 130 0 20 Arsenic 3.0 U 100 125 ug/L 125 70 - 130 20 1 Cadmium 0.89 50.0 61.9 ug/L 122 70 - 130 20 100 136 200 BF1 337 F1 70 - 130 20 Chromium ug/L

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Client: Ashland LLC TestAmerica Job ID: 480-128768-1

Project/Site: Hercules Glens Falls Annual POTW

Method: 200.8 - Metals (ICP/MS) (Continued)

9.9 J

Lab Sample ID: 480-128768-1 MSD Client Sample ID: POTW_20171211 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 507519 Prep Batch: 507396 MSD MSD Sample Sample Spike **RPD** %Rec. Result Qualifier Limits RPD Analyte Added Result Qualifier Unit %Rec Limit 2.0 J 100 125 ug/L 123 70 - 130 20 Copper 0 Lead 2.3 J 500 604 ug/L 120 70 - 130 0 20 2.6 J Nickel 100 127 ug/L 124 70 130 1 20 Silver 1.0 U 50.0 58.9 ug/L 118 70 - 130 20

Lab Sample ID: 480-128768-1 MSD Client Sample ID: POTW_20171211

129

ug/L

120

70 - 130

Prep Type: Total/NA

Prep Type: Total/NA **Prep Batch: 506502**

Prep Type: Total/NA

Prep Batch: 507654

Client Sample ID: Lab Control Sample

100

Matrix: Water

Zinc

Analysis Batch: 507540 Prep Batch: 507396 Sample Sample Spike MSD MSD %Rec. **RPD** RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Limit 5000 370 5800 70 - 130 20 Iron ug/L 109 4 Manganese 8.8 500 524 ug/L 103 70 - 13020

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: LCS 680-506502/2-A

Lab Sample ID: MB 680-506502/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 507073

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed

0.20 <u>12/14/17 17:20</u> <u>12/19/17 12:45</u> Mercury 0.20 U 0.080 ug/L

Matrix: Water

Analysis Batch: 507073 Prep Batch: 506502 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Mercury 2 50 2 63 ug/L 105 85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 680-507654/1-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 507680

MB MB

Result Qualifier RL MDL Unit Analyzed Dil Fac Analyte Prepared HEM (Oil & Grease) 5.0 12/26/17 08:58 12/26/17 11:19 5.0 U 1.4 mg/L

Lab Sample ID: LCS 680-507654/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 507680 Prep Batch: 507654 LCS LCS Spike %Rec. Analyte Unit

Added Result Qualifier %Rec Limits HEM (Oil & Grease) 40.0 35.40 89 78 - 114 mg/L

Client: Ashland LLC TestAmerica Job ID: 480-128768-1

Project/Site: Hercules Glens Falls Annual POTW

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 680-507654/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA **Matrix: Water Analysis Batch: 507680** Prep Batch: 507654 Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 40.0 HEM (Oil & Grease) 35.60 mg/L 89 78 - 114 18

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-506514/1-A
Matrix: Water
Analysis Batch: 506565
MB MB

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506514

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Cyanide, Total
 0.010
 U
 0.010
 0.0025
 mg/L
 12/15/17 04:18
 12/15/17 08:59
 1

Lab Sample ID: LCS 680-506514/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 506565 Prep Batch: 506514** Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 0.0500 0.0501 100 90 - 110 Cyanide, Total mg/L

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-507226/11

Client Sample ID: Method Blank
Matrix: Water

Prep Type: Total/NA

Analysis Batch: 507226

 Analyte
 Result Ammonia
 Qualifier
 RL
 MDL VIDIT
 D Prepared
 Analyzed Analyzed
 Dil Fac

 Ammonia
 0.25
 U
 0.25
 0.10
 mg/L
 12/20/17 11:05
 1

Lab Sample ID: LCS 680-507226/12

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 507226

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit Limits D %Rec 1.00 101 90 - 110 Ammonia 1 01 mg/L

Lab Sample ID: LCSD 680-507226/20

Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analysis Batch: 507226

Spike LCSD LCSD %Rec. **RPD** Added Limits **Analyte** Result Qualifier Unit D %Rec RPD Limit 1.00 105 3 Ammonia 1.05 mg/L 90 - 110

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Client: Ashland LLC TestAmerica Job ID: 480-128768-1

Project/Site: Hercules Glens Falls Annual POTW

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-507141/1-A **Matrix: Water**

Analysis Batch: 507198

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.050 <u>12/20/17 09:33</u> <u>12/20/17 10:28</u> Phenolics, Total Recoverable 0.050 U 0.025 mg/L

Lab Sample ID: LCS 680-507141/2-A

Matrix: Water

Analysis Batch: 507198

Analyte Phenolics, Total Recoverable Spike

Added

0.100

Spike

Added

20.0

Spike

Added

20.0

Result Qualifier

RL

1.0

0.0918

LCS LCS

RL Unit

1.0 mg/L

Unit

mg/L

Unit

mg/L

LCS LCS

LCSD LCSD

18.0

Result Qualifier

18.0

Result Qualifier

mg/L

Unit

%Rec 92

Prepared

%Rec

%Rec

90

90

Client Sample ID: Lab Control Sample Dup

Limits 75 - 125

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec.

Limits

80 - 120

%Rec.

Limits

80 - 120

%Rec.

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 507141

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

RPD

0

Analyzed

12/14/17 06:42

Prep Type: Total/NA

Prep Batch: 507141

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 680-506366/1

Matrix: Water

Analysis Batch: 506366

MB MB

Analyte Result Qualifier **Total Suspended Solids** 1.0 Ū

Lab Sample ID: LCS 680-506366/2

Matrix: Water

Analysis Batch: 506366

Total Suspended Solids

Lab Sample ID: LCSD 680-506366/3

Matrix: Water

Analysis Batch: 506366

Analyte

Total Suspended Solids

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-507833/7

Matrix: Water

Analysis Batch: 507833

Analyte pН

Added 7.00

Spike

LCS LCS Result Qualifier 7.1

Unit SU

D %Rec 101 %Rec. Limits 63 - 158

Client Sample ID: Lab Control Sample

Dil Fac

RPD

Limit

QC Sample Results

Client: Ashland LLC TestAmerica Job ID: 480-128768-1

Project/Site: Hercules Glens Falls Annual POTW

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-391888/1

Matrix: Water

Analysis Batch: 391888

USB USB

AnalyteResult Biochemical Oxygen DemandResult 2.0Qualifier URL 2.0MDL 2.0Unit mg/LD mg/LPrepared 12/13/17 05:26Analyzed 12/13/17 05:26Dil Fac 13/13/17 05:26

LCS LCS

203

Result Qualifier

Unit

Spike

Added

198

Lab Sample ID: LCS 480-391888/2

Matrix: Water

Analysis Batch: 391888

Analyte
Biochemical Oxygen Demand

Client Sample ID: Lab Control Sample Prep Type: Total/NA

%Rec.

Client Sample ID: Method Blank

Prep Type: Total/NA

D %Rec Limits

mg/L 103 85 - 115

8

4 4

12

13

QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

GC/MS VOA

Analysis Batch: 506838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	624	
480-128768-2	TRIP BLANK	Total/NA	Water	624	
MB 680-506838/7	Method Blank	Total/NA	Water	624	
LCS 680-506838/3	Lab Control Sample	Total/NA	Water	624	
LCSD 680-506838/4	Lab Control Sample Dup	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 506524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	625	
MB 680-506524/3-A	Method Blank	Total/NA	Water	625	
LCS 680-506524/4-A	Lab Control Sample	Total/NA	Water	625	
480-128768-1 MS	POTW_20171211	Total/NA	Water	625	
480-128768-1 MSD	POTW_20171211	Total/NA	Water	625	

Analysis Batch: 507074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	625	506524
MB 680-506524/3-A	Method Blank	Total/NA	Water	625	506524
LCS 680-506524/4-A	Lab Control Sample	Total/NA	Water	625	506524
480-128768-1 MS	POTW_20171211	Total/NA	Water	625	506524
480-128768-1 MSD	POTW_20171211	Total/NA	Water	625	506524

Metals

Prep Batch: 506502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	245.1	
MB 680-506502/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-506502/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 507073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	245.1	506502
MB 680-506502/1-A	Method Blank	Total/NA	Water	245.1	506502
LCS 680-506502/2-A	Lab Control Sample	Total/NA	Water	245.1	506502

Prep Batch: 507396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	200.8	
MB 680-507396/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-507396/2-A	Lab Control Sample	Total/NA	Water	200.8	
480-128768-1 MS	POTW_20171211	Total/NA	Water	200.8	
480-128768-1 MSD	POTW_20171211	Total/NA	Water	200.8	

Prep Batch: 507397

Trop Baton: 007007					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	200.7	
MB 680-507397/1-A	Method Blank	Total/NA	Water	200.7	

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QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Metals (Continued)

Pren	Batch:	507397	(Continued)
	Date.	001001	Continuou

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-507397/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-128768-1 MS	POTW_20171211	Total/NA	Water	200.7	
480-128768-1 MSD	POTW_20171211	Total/NA	Water	200.7	

Analysis Batch: 507501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	200.7 Rev 4.4	507397
MB 680-507397/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	507397
LCS 680-507397/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	507397
480-128768-1 MS	POTW_20171211	Total/NA	Water	200.7 Rev 4.4	507397
480-128768-1 MSD	POTW_20171211	Total/NA	Water	200.7 Rev 4.4	507397

Analysis Batch: 507519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	200.8	507396
MB 680-507396/1-A	Method Blank	Total/NA	Water	200.8	507396
LCS 680-507396/2-A	Lab Control Sample	Total/NA	Water	200.8	507396
480-128768-1 MS	POTW_20171211	Total/NA	Water	200.8	507396
480-128768-1 MSD	POTW_20171211	Total/NA	Water	200.8	507396

Analysis Batch: 507540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	200.8	507396
MB 680-507396/1-A	Method Blank	Total/NA	Water	200.8	507396
LCS 680-507396/2-A	Lab Control Sample	Total/NA	Water	200.8	507396
480-128768-1 MS	POTW_20171211	Total/NA	Water	200.8	507396
480-128768-1 MSD	POTW_20171211	Total/NA	Water	200.8	507396

General Chemistry

Analysis Batch: 391888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	SM 5210B	
USB 480-391888/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-391888/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 506366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	SM 2540D
MB 680-506366/1	Method Blank	Total/NA	Water	SM 2540D
LCS 680-506366/2	Lab Control Sample	Total/NA	Water	SM 2540D
LCSD 680-506366/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D

Prep Batch: 506514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	Distill/CN	
MB 680-506514/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-506514/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

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QC Association Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

General Chemistry (Continued)

Analysis Batch: 506565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	335.4	506514
MB 680-506514/1-A	Method Blank	Total/NA	Water	335.4	506514
LCS 680-506514/2-A	Lab Control Sample	Total/NA	Water	335.4	506514

Prep Batch: 507141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	Distill/Phenol	
MB 680-507141/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-507141/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 507198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	420.1	507141
MB 680-507141/1-A	Method Blank	Total/NA	Water	420.1	507141
LCS 680-507141/2-A	Lab Control Sample	Total/NA	Water	420.1	507141

Analysis Batch: 507226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	350.1	
MB 680-507226/11	Method Blank	Total/NA	Water	350.1	
LCS 680-507226/12	Lab Control Sample	Total/NA	Water	350.1	
LCSD 680-507226/20	Lab Control Sample Dup	Total/NA	Water	350.1	

Prep Batch: 507654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	1664A	
MB 680-507654/1-A	Method Blank	Total/NA	Water	1664A	
LCS 680-507654/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 680-507654/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 507680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
<u>-</u>					
480-128768-1	POTW_20171211	Total/NA	Water	1664A	507654
MB 680-507654/1-A	Method Blank	Total/NA	Water	1664A	507654
LCS 680-507654/2-A	Lab Control Sample	Total/NA	Water	1664A	507654
LCSD 680-507654/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	507654

Analysis Batch: 507833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-128768-1	POTW_20171211	Total/NA	Water	SM 4500 H+ B	
LCS 680-507833/7	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

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Lab Chronicle

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

Client Sample ID: POTW 20171211

Date Collected: 12/11/17 15:15

Date Received: 12/12/17 03:10

TestAmerica Job ID: 480-128768-1

Lab Sample ID: 480-128768-1

Matrix: Water

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	506838	12/18/17 21:54	WAS	TAL SAV
Total/NA	Prep	625			506524	12/15/17 08:30	CEW	TAL SAV
Total/NA	Analysis	625		1	507074	12/19/17 22:50	OK	TAL SAV
Total/NA	Prep	200.7			507397	12/21/17 12:58	AJR	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	507501	12/22/17 02:10	BCB	TAL SAV
Total/NA	Prep	200.8			507396	12/21/17 12:58	AJR	TAL SAV
Total/NA	Analysis	200.8		1	507519	12/22/17 08:38	BWR	TAL SAV
Total/NA	Prep	200.8			507396	12/21/17 12:58	AJR	TAL SAV
Total/NA	Analysis	200.8		1	507540	12/22/17 12:11	BCB	TAL SAV
Total/NA	Prep	245.1			506502	12/14/17 17:20	NVF	TAL SAV
Total/NA	Analysis	245.1		1	507073	12/19/17 13:18	NVF	TAL SAV
Total/NA	Prep	1664A			507654	12/26/17 08:58	JAS	TAL SAV
Total/NA	Analysis	1664A		1	507680	12/26/17 11:19	JAS	TAL SAV
Total/NA	Prep	Distill/CN			506514	12/15/17 04:18	DAM	TAL SAV
Total/NA	Analysis	335.4		10	506565	12/15/17 09:45	DAM	TAL SAV
Total/NA	Analysis	350.1		1	507226	12/20/17 10:56	ALG	TAL SAV
Total/NA	Prep	Distill/Phenol			507141	12/20/17 09:33	CFJ	TAL SAV
Total/NA	Analysis	420.1		1	507198	12/20/17 10:28	CFJ	TAL SAV
Total/NA	Analysis	SM 2540D		1	506366	12/14/17 06:42	KLD	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	507833	12/27/17 09:36	JER	TAL SAV
Total/NA	Analysis	SM 5210B		1	391888	12/13/17 05:26	LAW	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-128768-2 Date Collected: 12/11/17 00:00 **Matrix: Water**

Date Received: 12/12/17 03:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624			506838	12/18/17 19:19	WAS	TAL SAV

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Buffalo

Accreditation/Certification Summary

Client: Ashland LLC TestAmerica Job ID: 480-128768-1

Project/Site: Hercules Glens Falls Annual POTW

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Laboratory: TestAmerica Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program		EPA Region	Identification Number	Expiration Date
lew York	NELAP		2	10842	03-31-18
The following analytes	s are included in this repo	rt, but are not accre	dited/certified under t	his accreditation/certification	n:
Analysis Method	Prep Method	Matrix	Analyt	е	
200.8	200.8	Water	Iron		
625	625	Water	2,4,5-	Trichlorophenol	
The following analyte:	s are included in this repo	rt, but accreditation/	certification is not off	ered by the governing auth	ority:
Analysis Method	Prep Method	Matrix	Analyt	е	
SM 4500 H+ B		Water	Hq		

TestAmerica Buffalo

Method Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL SAV
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL SAV
200.7 Rev 4.4	Metals (ICP)	40CFR136A	TAL SAV
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
1664A	HEM and SGT-HEM	1664A	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL SAV
SM 4500 H+ B	pH	SM	TAL SAV
SM 5210B	BOD, 5-Day	SM	TAL BUF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Buffalo

Page 25 of 31

Sample Summary

Client: Ashland LLC

Project/Site: Hercules Glens Falls Annual POTW

TestAmerica Job ID: 480-128768-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-128768-1	POTW_20171211	Water	12/11/17 15:15	12/12/17 03:10
480-128768-2	TRIP BLANK	Water	12/11/17 00:00	12/12/17 03:10

4

6

8

9

11

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14

Blank

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201712

POTO

Sample Identification

yan reles@anteagroup com במק איראני

Ashland Glens Falls Annual POTW

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Ashland

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614-799-6146(Tell)

NY, 13214

STAB Wide Water Parkway End Hoor ANTEA

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what

Seles

Company: Antea USA, Inc.

Phone (912) 354-7858 Fax (912) 352-0165

Client Information

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TestAmerica-Sam

Custody Seal No.

Custody Seals Intact:

to

A Yes A No

Skin Irritant

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by

elinquished by: inquished by

Flammable

Non-Hazard

Possible Hazard Identification

TestAmerica	COC No 680-88845-35895.1 Page	Page 1 of 1	Preservation Co.	A - HCL N - Hexene B - NaOH N - None G - Zh Acetate O - AshlaCO2 D - Ninif Acod P - NaZOAS F - NaHSOA	F - MeOH R - Ne2S203 G - Amehlor S - H2S04 H - Ascorbit Acid T - TSP Dodecahydrate	J-DI Water K-EDTA	Other:	o tad Mumber o	Special instructions/Note:	[5]						etained longer than 1 month)	Archive For Months		17 1545 Company Const	2 7	O.Bin		Ver: 08:04:2016
681-Atlanta	Garné Paireaine com	sis Reques			pueu	4 yiroh 90 nag abiloS	OC Mical Oxy spended Total	824_6m1 - 624-V 628 - (MOD) Acio 627 - Gordo 62108 - Blochen 62108 - Total Su 6214 - Cyanide, 735.4 - Cyanide, Hq - + Loss	N N N N N N N N N N N N N N N N N N N	× × × × × × × × × × × ×	×				/	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Special Instructions/QC Requirements:	Method of Shipment	1.3	mark on	-1 ~	Offier Temperature(s) °C and Other Remarks:	
Chain of Custody Record	1263 Barnett, Eddie T E-Mail eddie barnett@hestamericaine.com			8		OF NO	SD (Yes	Sample Matrix Type (Percomp Caccomp Caccomp Caccomp Caccomp Front Mark) Filed Files and Front Mark 200.7 CWA, 200	Preservation Code. XX S D S	G Water NNXK	Water						Redum 7 Special Instruct	Time:	S45 Company Arter Received by	700 Company La Regived by	1800 Campany Received by		
881-Allanta	Phone RED -042-2636		NA CARCAGORICA	(days):	22 PO# PO# 400 PO# 400	Project #	#MOSS	Sample Sample Date Time	V	3/51 11/11/21	- L/11/21						an Poison & Unknown	Date:	Date/201/17	Date/Time 177	Date/Time:		
TestAmerica-6 5:00 5:00 From (912) 354-7858 Fax (912) 362-0165	Client Information Clent Contact Reparables (Orly Hum)	Summer Tanks Or	Maler Parkway ent Hoor ANTEA	use Val hor	b 561	Project Name Ashland Glens Falls Annual POTM	Ashland Glur Fills	Sample Identification		7)	Kip Dlank					Possible Hazard Identification	10	Empty Kit Refinquished by:	Reiniquished by	Kein riquis ned of the second	Custodie Scale Infact. Custodie Sealis	A Yes A No	

10 Hazelwood Drive	ភ	nain of	Custo	ain of Custody Record	SCOL	P									lest,	< II	merica
Annerst, NT 14220-2230 Phone (716) 691-2600 Fax (716) 691-7991														1	THE LEADER	ER IN EN	IN ENVIRONMENTAL TESTING
Client Information (Sub Contract Lab)	Sampler.			Barnett,	tt, Eddie T	E T					Carrier Tracking No(s)	rackin	No(s):		480-39555.1	5.1	
Client Contact: Shipping/Receiving	Phone:			E-Mail: eddie	E-Mail: eddie.barnett@testamericainc.com	@test	americ	ainc.o	шс		State of Origin: New York	Origin			Page: Page 1 of 1	.1	
Company: TestAmerica Laboratories, Inc.					Accreditations Required (See note): NELAP - New York	ons Re	York	see note							Job #. 480-128768-1	68-1	
Address: 5102 LaRoche Avenue.	Due Date Requested: 12/22/2017							Ans	Analysis Requested	Red	ueste	P			Preservation Codes	18	.;
City. Savannah	TAT Requested (days):	:				bsel		elds	fall				ants	_	B - NaOH C - Zn Acetate		M - nexane N - None O - AsNaO2 D - Na2O40
State, Z.p.: GA, 31404						g wn	to out	cover	ldu2 n		-	_	-	_	E - NaHSO		Q - Na2SO3
Phone. 912-354-7858(Tel) 912-352-0165(Fax)	#Od				(0)	ргош	_	eA lst	noteu				_		G - Amchlo H - Ascorbi	0	S - H2SO4 T - TSP Dodecahydrate
Email:	WO#				0.000			oT ,ec	o lao			_		_			U - Acetone V - MCAA
Project Name: Hercules Glens Falls O&M Quarterly	Project #: 68000956				STATE OF THE PARTY.			lloned	M) TOT						Bus 50 4067 U.S.		W - pH 4-5 Z - other (specify)
Site:	SSOW#				-	_		d lone	_d_7.	VinO					of col		
Sample Identification - Client ID (Lab ID)	Sample	Sample (Sample Type (C=comp,	Matrix (www.mster, Sesoild, Orwastaloll,	benetiil biele MiSM mohed	335.4/Distill_CN	e19_f.245\f.845	44_IIIasid\r.051	200.7_CWA/200 200.7_CWA/200	Hq \+H_008≯M8	1.038	(MOD) \\ma_\$\$\$ G_A\$331\A\$331	\$25/625_Prep (A		TedmuM istoT	le cial	Special Instructions/Note:
	X	1	1 00	1900	K-	400	200	1000	90	17000	200	500	100	10		Λ	
POTW_20171211 (480-128768-1)	12/11/17	15:15 Fastern		Water		×	×	×	×	×	×	×	×		14		
TRIP BLANK (480-128768-2)	12/11/17	Eastern		Water					_			×			2		
					F	+	-	1	+			+	T	-			
					+	+	+		+	1	1	+	1	+			
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					+	+	+		+			+	1	+	70		
						+	+		H			+	1	+			
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratoris, Inc. places the own currently maintain accreditation in the State of Origin listed above for analysis/festamatix being analyzed, Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signe	Laboratories, inc. places the ow ysis/fests/matrix being analyzed e current to date, return the sign	vnership of met	hod, analyte & must be shippe ustody attestim	A accreditation ed back to the g to said comp	complian TestAme	ce upon rica labo	out sub rratory o	contract other in	laborato istruction es, inc.	nes. T	is sam	ed. Ar	ment is fo	warded to accr	inder chain-of-cus ditation status sho	stody. If th	nership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not the samples must be shipped back to the fresAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica od Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.
Possible Hazard Identification					San	D ajdu	ispos	I (A)	ee ma	/ pe	SSBSS	ed if	sample	s are r	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	r than 1	month)
Unconfirmed	described seeming	C Just Dank			1 000	Ret	Return To Client	Client	Return To Client Dis		Disposal By Lab	al By	Lab		Archive For	1	Months
Deliverable Nequested. I, II, III, IV, Other (specify)	rillialy Cellycian	e name.			2	5	an aca	200	nhov.		. 1						
Empty Kit Relinquished by:		Date:			Time:						-	fethod	Method of Shipment:	nt:			
Relinguished by WINL	Date Filme / 12/	1101	600	Company		Receive	1						Date/Time	3/17		95	Company
Relinquished by:	Date/Time.		0	Company		Received-b	A P						Date/Time	ime;			Company
Relinquished by:	Date/Time:		0	Company		Received by	d by:						Date/Time	me.			Company
Custody Seals Intact: Custody Seal No.:						Cooler	Cooler Temperature(s)		*C and Other Remarks	ther R		j	1				
1														1		l	Ver. 09/20/2016

TestAmerica

TestAmerica Buffalo

Client: Ashland LLC Job Number: 480-128768-1

Login Number: 128768 List Source: TestAmerica Buffalo

List Number: 2

Creator: Williams, Christopher S

Creator. Williams, Christopher 5		
Question	Answer	Comment
Radioactivity wasn't checked or is $<$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Buffalo

Client: Ashland LLC Job Number: 480-128768-1

List Source: TestAmerica Savannah
List Number: 3
List Creation: 12/13/17 04:13 PM

Creator: Hopkins, Ashley

Creator: Hopkins, Ashley		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

N/A

TestAmerica Buffalo

Residual Chlorine Checked.



ATTACHMENT 3 - SUMP A AND B WEEKLY TOTALIZER SUMMARY

			Sump	Α			Sump	В		
			Since	Previous Re	ading		Since	Previous Re	ading	Ave. Total
		Totalizer	Gallons	Ave.	% of Sump A + Sump B	Totalizer	Gallons	Ave.	% of Sump A + Sump B	Sump A + Sump B Flow Since Previous Reading
Date	Days	Reading (Gal)	Pumped	Gal/Day	Flow	Reading (Gal)	Pumped	Gal/Day	Flow	(Gal/Day)
1/3/2017		1,358,566				45,629,961				
1/11/2017	8	1,386,993	28,427	3,553	9	45,914,995	285,034	35,629	91	39,183
1/19/2017	8	1,422,138	35,145	4,393	11	46,194,352	279,357	34,920	89	39,313
1/26/2017	7	1,455,141	33,003	4,715	11	46,464,755	270,403	38,629	89	43,344
2/1/2017	6	1,489,358	34,218	5,703	12	46,707,699	242,944	40,491	88	46,194
2/6/2017	5	1,518,502	29,144	5,829	13	46,895,336	187,637	37,527	87	43,356
2/15/2017	9 7	1,577,066	58,564	6,507	19	47,138,280	242,944	26,994	81	33,501
2/22/2017	15	1,619,183	42,117	6,017	11	47,491,838	353,558	50,508	89	56,525
3/9/2017		1,740,941	121,758	8,117	31	47,759,041	267,203	17,814	69	25,931
3/13/2017 3/23/2017	10	1,771,480 1,840,279	30,539 68,799	7,635 6,880	18 17	47,900,261 48,227,651	141,220 327,390	35,305 32,739	82 83	42,940 39,619
3/23/2017	6	1,882,898	42,619	7,103	17	48,429,912	202,261	33,710	83	40,813
4/5/2017	7	1,957,573	74,676	10,668	17	48,738,481	308,569	44,081	81	54,749
4/10/2017	5	2,052,473	94,900	18,980	23	49,053,723	315,242	63,048	77	82,028
4/10/2017	7	2,032,473	103,978	14,854	26	49,350,878	297,155	42,451	74	57,305
4/24/2017	7	2,242,147	85,697	12,242	22	49,648,899	298,021	42,574	78	54,817
5/2/2017	8	2,324,103	81,956	10,244	19	49,989,570	340,671	42,584	81	52,828
5/8/2017	6	2,385,868	61,765	10,294	18	50,264,937	275,367	45,895	82	56,189
5/15/2017	7	2,462,704	76,836	10,977	20	50,571,131	306,194	43,742	80	54,719
5/23/2017	8	2,539,931	77,227	9,653	19	50,899,821	328,690	41,086	81	50,740
5/30/2017	7	2,605,945	66,014	9,431	17	51,222,364	322,543	46,078	83	55,508
6/6/2017	7	2,675,777	69,832	9,976	17	51,557,333	334,969	47,853	83	57,829
6/12/2017	6	2,738,016	62,239	10,373	18	51,837,153	279,820	46,637	82	57,010
6/23/2017	11	2,807,660	69,644	6,331	18	52,161,336	324,183	29,471	82	35,802
6/26/2017	3	2,857,078	49,418	16,473	20	52,353,537	192,201	64,067	80	80,540
7/3/2017	7	2,939,902	82,824	11,832	18	52,721,184	367,647	52,521	82	64,353
7/10/2017	7	3,061,909	122,007	17,430	23	53,120,683	399,499	57,071	77	74,501
7/18/2017	8	3,163,056	101,147	12,643	21	53,501,996	381,313	47,664	79	60,307
7/26/2017	8	3,248,583	85,528	10,691	19	53,861,275	359,279	44,910	81	55,601
8/1/2017	6	3,305,829	57,246	9,541	17	54,131,891	270,616	45,103	83	54,644
8/8/2017	7	3,364,907	59,078	8,440	16	54,445,807	313,916	44,845	84	53,285
8/15/2017	7	3,394,602	29,695	4,242	15	54,612,780	166,973	23,853	85	28,095
8/22/2017	7	3,456,392	61,790	8,827	17	54,906,466	293,686	41,955	83	50,782
8/28/2017	6	3,493,718	37,326	6,221	13	55,160,780	254,314	42,386	87	48,607
9/5/2017	8	3,539,411	45,693	5,712	12	55,495,243	334,463	41,808	88	47,520
9/15/2017	10	3,594,056	54,645	5,465	12	55,912,740	417,497	41,750	88	47,214
9/18/2017	3	3,610,516	16,460	5,487	11	56,043,710	130,970	43,657	89	49,143
9/25/2017	7	3,645,392	34,876	4,982	10	56,348,056	304,346	43,478	90	48,460
10/4/2017	9	3,689,277	43,885	4,876	10	56,724,520	376,464	41,829	90	46,705
10/9/2017	5	3,711,682	22,405	4,481	10	56,918,304	193,784	38,757	90	43,238
10/16/2017	7	3,744,129	32,447	4,635	11	57,180,192	261,888	37,413	89	42,048
10/25/2017	9	3,786,949	42,820	4,758	11	57,529,497	349,305	38,812	89	43,569
10/31/2017	6	3,814,571	27,622	4,604	11	57,751,670	222,173	37,029	89	41,632
11/6/2017	6	3,844,180	29,609	4,935	12	57,965,906	214,236	35,706	88	40,641
11/13/2017	7	3,882,074	37,894	5,413	14	58,207,438	241,532	34,505	86	39,918
11/21/2017	8	3,923,047	40,974	5,122	14	58,463,848	256,410	32,051	86	37,173
12/4/2017	13	3,985,020	61,973	4,767	13	58,895,776	431,928	33,225	87	37,992
12/18/2017	14	4,049,092	64,072	4,577	16	59,239,034	343,258	24,518	84	29,095
12/24/2017	6	4,096,907	47,815 Maximum	7,969 18,980	16 31	59,491,734	252,700	42,117 64,067	84 91	50,086
•										





ATTACHMENT 4 – SITE INSPECTION REPORTS

Ciba-Geigy/Hercules Incorporated - Glens Falls, NY O&M Completion Log

Routine Quarterly Activities - Quarter/Year Q1 2017

Item No.	Action	Date	Initials
	Discharge Monitoring		
1	Calibrate discharge flow meters	3/13/17	CA
2	Inspect discharge monitoring program for conformity	3/13/17	WA
	Site Security	/ /	
1	Inspect access roads for damage	3/2/17	LA
2	Inspect entire fence line and repair if necessary	3/2/17	KA
3	Inspect all locks and gates in upper and lower area	3/2/17	KA
4	Inspect all locks and gates across street	3/2/17	1CA
5	Inspect old remediation building and fence line	3/2/17	KA
6	Inspect offsite wells and for proper security	3/2/17	KA
	Groundwater Extraction System	, ,	
1	Electrical connection inspection in EPS and generator	<i>i i</i>	_
1	station	3/2/17	CA
2	Discharge piping in EPS	3/2/17	KA
3	Inspect vegetation for uncovered electrical lines	3/2/17	KA
4	Inspect all vaults for leaks or standing water	3/13/17	κA
	Site Monitoring		
1	Inspect outfall structures along Hudson River	3/2/17	KA
2	Inspect all roadways	3/2/17	KJA
3	Inspect all ditches/swales, catch basins and rip-rap	3/2/17	KA

COMMENTS

Ciba-Geigy/Hercules Incorporated - Glens Falls, NY

O&M Completion Log

Routine Quarterly Activities - Quarter/Year

0/26/17	2nd Quarter
() (v)	

ltem No.	Action	Date	Initials	
Discharge Monitoring				
1	Calibrate discharge flow meters	6/26/17	60	
2	Inspect discharge monitoring program for conformity	6/26/17	66	
Site Security				
1 '	Inspect access roads for damage	6/26/17	6 (
2	Inspect entire fence line and repair if necessary	6/26/17	60	
3	Inspect all locks and gates in upper and lower area	6/26/17	61	
4	Inspect all locks and gates across street	6/26/17	60	
(5)	Inspect old remediation building and fence line	6/26/17	61	
6	Inspect offsite wells and properties for proper security	6/26/17	66	
Groundwater Extraction System				
1	Electrical connection inspection in EPS and generator			
1	station	•		
2	Discharge piping in EPS	6/26/17	60	
3	Inspect vegetation for uncovered electrical lines	66/21/17	66	
4	Inspect all vaults for leaks or standing water	6/26/17	8¢	
Site Monitoring				
1	Inspect outfall structures along Hudson River	6/26/17	60	
2	Inspect all roadways	-6/26/17	66	
3	Inspect all ditches/swales, catch basins and rip-rap	6/26/17	60	
4	Inspect Former Storm Water Impoundment Basin Cover	6/26/17	75	
5	Inspect Ponded & Backwater Area	6/26/17	66	

Grand Water Etaction System # 3 - uncovered line by SUMPA
Ground Water Extraction System; Hy - due to inclement weather and incoming storm clouds Water not removed from extraction wells
andincoming storm clouds Water not removed from extruction wells

to go up to the computer: Jump Driveon panel door
Swop Jump drive of own load Ethes, and
Jelete so it can be swapped

Ciba-Geigy/Hercules Incorporated - Glens Falls, NY

O&M Completion Log

Routine Quarterly Activities - Quarter/Year ____

1 / /	
7/2/	
2	

Item No.	Action	Date	Initials		
Discharge Monitoring					
1	Calibrate discharge flow meters	7/3/17	(2)		
2	Inspect discharge monitoring program for conformity	7/3/17	6(
	Site Security				
1	Inspect access roads for damage	7/3/17	GC		
2	Inspect entire fence line and repair if necessary	7/3/17	6(
3	Inspect all locks and gates in upper and lower area	7/3/17	6(
4	Inspect all locks and gates across street	9/3/17	60		
5	Inspect old remediation building and fence line	7/3/17	6C		
6	Inspect offsite wells and for proper security	7/3/17	62		
Groundwater Extraction System					
1	Electrical connection inspection in EPS and generator station	7/3/17	GC		
2	Discharge piping in EPS	7/3/17	60		
3	Inspect vegetation for uncovered electrical lines	7/3/17	6(
4	Inspect all vaults for leaks or standing water	7/3/17	GC		
Site Monitoring					
1	Inspect outfall structures along Hudson River	7/3/17	6C		
2	Inspect all roadways	7/3/17	60		
3	Inspect all ditches/swales, catch basins and rip-rap	7/3/17	GC		

COMMENTS

Ciba-Geigy/Hercules Incorporated - Glens Falls, NY

O&M Completion Log
Routine Quarterly Activities - Quarter/Year

Item No.	Action	Date	Initials			
Discharge Monitoring						
1	Calibrate discharge flow meters	11/6	1 6C			
2	Inspect discharge monitoring program for conformity	11/6	16			
Site Security						
1	Inspect access roads for damage	11/6	61			
2	Inspect entire fence line and repair if necessary	11/6	CC			
3	Inspect all locks and gates in upper and lower area	1176	66			
4	Inspect all locks and gates across street	11/6	CC			
5	Inspect old remediation building and fence line	11/6	أد أ			
6	Inspect offsite wells and properties for proper security	11/6	66			
	Groundwater Extraction System					
1	Electrical connection inspection in EPS and generator	11/1	11			
.	station	11/6	60			
2	Discharge piping in EPS	11/6	1.0			
3	Inspect vegetation for uncovered electrical lines	11/6	EC.			
4	Inspect all vaults for leaks or standing water	11/6	6C			
	Site Monitoring					
1	Inspect outfall structures along Hudson River	116	66			
2	Inspect all roadways	11/6	60			
3	Inspect all ditches/swales, catch basins and rip-rap	11/6	60			
4	Inspect Former Storm Water Impoundment Basin Cover	11/6	ica			
5	Inspect Ponded & Backwater Area	11/6	(,)			

COMMENTS	
	

Ciba-Geigy/Hercules Incorporated - Glens Falls, NY O&M Completion Log

Routine Monthly Activities - Month/Year Jan 2017

Record pH and flow meter readings in EPS Record pH and flow readings at POTW Submit samples to laboratry for analysis				Date	Initial
Record pH and flow meter readings in EPS Record pH and flow readings at POTW Submit samples to laboratry for analysis Site Security Gates secured & locked Access roads Site utilities operational Inspect fire extinguishers and sign tag Inspect chemical storage cabinets Inspect all fence lines for holes or breaks Inspect all buildings for security Site Monitoring Inspect landfill cap Vegitative cover Cement company pond (Geotextile & stone) Inspect dirches/swales and catch basins		Discharg	e Monitoring		
Record pH and flow meter readings in EPS Record pH and flow readings at POTW Submit samples to laboratry for analysis	1	Collect monthly discharge samples		1/4/4	ENA
Record pH and flow readings at POTW Submit samples to laboratry for analysis Site Security Gates secured & locked Access roads Site utilities operational Inspect fire extinguishers and sign tag Inspect chemical storage cabinets Inspect all fence lines for holes or breaks Inspect all buildings for security Site Monitoring Inspect landfill cap Vegitative cover Cement company pond (Geotextile & stone) Inspect ditches/swales and catch basins Inspect ditches/swales and catch basins	2	Record pH and flow meter readings in EPS			พหา
Site Security 1 Gates secured & locked 2 Access roads 3 Site utilities operational 4 Inspect fire extinguishers and sign tag 5 Inspect all fence lines for holes or breaks 7 Inspect all buildings for security Site Monitoring 1 Inspect cover 3 Cement company pond (Geotextile & stone) 4 Inspect ditches/swales and catch basins 6 Inspect ditches/swales and catch basins	3	Record pH and flow readings at POTW			CA
Site Security 1 Gates secured & locked 2 Access roads 3 Site utilities operational 4 Inspect fire extinguishers and sign tag 5 Inspect chemical storage cabinets 6 Inspect all fence lines for holes or breaks 7 Inspect all buildings for security Site Monitoring 1 Inspect landfill cap 2 Vegitative cover 3 Cement company pond (Geotextile & stone) 4 Inspect ditches/swales and catch basins 6 Inspect ditches/swales and catch basins	4	Submit samples to laboratry for analysis			EPT
Access roads Site utilities operational Inspect fire extinguishers and sign tag Inspect chemical storage cabinets Inspect all fence lines for holes or breaks Inspect all buildings for security Site Monitoring Inspect landfill cap Vegitative cover Cement company pond (Geotextile & stone) Inspect ditches/swales and catch basins		Site	Security		
Access roads Site utilities operational Inspect fire extinguishers and sign tag Inspect chemical storage cabinets Inspect all fence lines for holes or breaks Inspect all buildings for security Site Monitoring Inspect landfill cap Vegitative cover Cement company pond (Geotextile & stone) Inspect ditches/swales and catch basins	1	Gates secured & locked		1/4/17	VA
Site utilities operational Inspect fire extinguishers and sign tag Inspect chemical storage cabinets Inspect all fence lines for holes or breaks Inspect all buildings for security Site Monitoring Inspect landfill cap Vegitative cover Cement company pond (Geotextile & stone) Inspect ditches/swales and catch basins	2	Access roads			ic.
Inspect fire extinguishers and sign tag	3	Site utilities operational		7 77	40
Inspect chemical storage cabinets I/4/17 Imspect all fence lines for holes or breaks I/4/17 Imspect all buildings for security I/4/17 Imspect landfill cap Imspect landfill cap I/4/17 Imspect landfill cap Ims	4	Inspect fire extinguishers and sign tag		1/41.7	KA
Inspect all fence lines for holes or breaks Inspect all buildings for security Inspect all buildings for security Inspect landfill cap Inspect landfill cap Inspect landfill cap Inspect cover Inspect cover Inspect rip-rap Inspect rip-rap Inspect ditches/swales and catch basins Inspect ditches/swales Inspect ditches/swales Inspect ditches/swales Inspect ditches/swales Inspect ditches/swales Inspect ditches/swales	5	Inspect chemical storage cabinets		1/4/17	W-
Inspect all buildings for security	6	Inspect all fence lines for holes or breaks		1/4/17	Kr
Site Monitoring Inspect landfill cap Vegitative cover Cement company pond (Geotextile & stone) Inspect rip-rap Inspect ditches/swales and catch basins	7	Inspect all buildings for security		1/4/17	κA
2 Vegitative cover 3 Cement company pond (Geotextile & stone) 4 Inspect rip-rap 5 Inspect ditches/swales and catch basins 6 Under Birerberg		Site N	Monitoring		
2 Vegitative cover 3 Cement company pond (Geotextile & stone) 4 Inspect rip-rap 5 Inspect ditches/swales and catch basins 6 Under Bircherle	1	Inspect landfill cap		1/4/17	KA
3 Cement company pond (Geotextile & stone) 4 Inspect rip-rap 5 Inspect ditches/swales and catch basins 6 Under Birer basis	2	Vegitative cover		1/7)	Y4
4 Inspect rip-rap 5 Inspect ditches/swales and catch basins 6 Under Pive head.	3	Cement company pond (Geotextile & stone)			KA
5 Inspect ditches/swales and catch basins	4	Inspect rip-rap		1/41,7	KA
C Uladaan Dhambanta	5	Inspect ditches/swales and catch basins		1 1 1	CR
	6	Hudson River bank			KA
COMMENTS		CON	MMENTS	1/31//	1-11
		1000	240 100 1313119		
Access roads on west side of situ are road strainly					
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THE TORK OF SUR CF SUCCESSION OF SURVEY					
THOUSE TOGETS AN SOUR OF SOUR RES TOGETSTAND					

Ciba-Geigy/Hercules Incorporated - Glens Falls, NY

O&M Completion Log

Routine Monthly Activities - Month/Year <u>Foo</u> 2017

2 Record pH and 3 Record pH and 4 Submit samp 1 Gates secured 2 Access roads 3 Site utilities of 4 Inspect fire expenses 5 Inspect chem 6 Inspect all fer	nly discharge samples ad flow meter readings in EPS ad flow readings at POTW les to laboratry for analysis Site d & locked	ge Monitoring e Security	2/1/17 2/1/17 2/1/17 2/1/17 2/1/17	LUA KA KA KA KA		
2 Record pH and 3 Record pH and 4 Submit samp 1 Gates secured 2 Access roads 3 Site utilities of 4 Inspect fire expenses 5 Inspect chem 6 Inspect all fer	Id flow meter readings in EPS Id flow readings at POTW Iles to laboratry for analysis Site Id & locked Inperational Extinguishers and sign tag	e Security	2/1/17 2/1/17 2/1/17 2/1/17	KA KA KA KA		
3 Record pH an 4 Submit samp 1 Gates secured 2 Access roads 3 Site utilities of 4 Inspect fire ex 5 Inspect chem 6 Inspect all fer	Id flow readings at POTW les to laboratry for analysis Site d & locked perational extinguishers and sign tag	e Security	2/1/17 2/1/17 2/1/17	KA KA KA KA		
4 Submit samp 1 Gates secured 2 Access roads 3 Site utilities of 4 Inspect fire exists 5 Inspect chem 6 Inspect all fer	les to laboratry for analysis Site d & locked perational xtinguishers and sign tag	e Security	2/1/17 2/1/17 2/1/17	ICA ICA ICA		
1 Gates secured 2 Access roads 3 Site utilities of 4 Inspect fire ex 5 Inspect chem 6 Inspect all fer	Site d & locked pperational xtinguishers and sign tag	e Security	2/1/17	ICA ICA ICA		
2 Access roads 3 Site utilities of 4 Inspect fire ex 5 Inspect chem 6 Inspect all fer	d & locked perational xtinguishers and sign tag	e Security	2/1/17	19 19		
2 Access roads 3 Site utilities of 4 Inspect fire ex 5 Inspect chem 6 Inspect all fer	perational xtinguishers and sign tag	•	2/1/17	PJ		
3 Site utilities of 4 Inspect fire ex 5 Inspect chem 6 Inspect all fer	perational xtinguishers and sign tag					
4 Inspect fire ex 5 Inspect chem 6 Inspect all fer	xtinguishers and sign tag		2/1/17	120		
5 Inspect chem 6 Inspect all fer				KA		
6 Inspect all fer	ical storage cabinets		12/1/17	KA		
			2/1/17	MA		
7 Inspect all bu	nce lines for holes or breaks		3/117	LA		
/ Inspect all bu	ildings for security		2/1/17	rA.		
Site Monitoring						
1 Inspect landfi	ll cap		2/1/17	166		
2 Vegitative co	ver		2/1/17	I/A		
3 Cement comp	oany pond (Geotextile & stone)		2///17	KA		
4 Inspect rip-ra	р		2/1/17	KA		
5 Inspect ditch	es/swales and catch basins		2/1/17			
6 Hudson River	bank		2/1/12	LA LA		
	СО	MMENTS		1		

Ciba-Geigy/Hercules Incorporated - Glens Falls, NY O&M Completion Log

Routine Monthly Activities - Month/Year March 2017

Item No.	Action	Remarks & Observations	Date	Initials
	Discharg	ge Monitoring		
1	Collect monthly discharge samples		3/2/17	VA.
2	Record pH and flow meter readings in EPS		3/2/17	KA
3	Record pH and flow readings at POTW		3/2/17	KA
4	Submit samples to laboratry for analysis		3/2/17	100
	Site	Security		1
1	Gates secured & locked		3/2/17	KA
2	Access roads		3/2/0	KA
3	Site utilities operational		3/2/17	KA
4	Inspect fire extinguishers and sign tag		3/2/17	F/3
5	Inspect chemical storage cabinets		3/2/17	KA
6	Inspect all fence lines for holes or breaks		3/2/17	r.A
7	Inspect all buildings for security		3/2/17	KA
	Site N	Monitoring	1 9/2/1	
1	Inspect landfill cap		3/2/17	L/A
2	Vegitative cover		3/2/17	KA
3	Cement company pond (Geotextile & stone)		3/2/17	LA
4	Inspect rip-rap		3/2 /17	KP
5	Inspect ditches/swales and catch basins		3/2 /17	KA
6	Hudson River bank		3/2 /17	KA
		MARATO	13/6/11	LPN

COMMENTS

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Revision Date:

1/6/2017

Ashland, Inc.

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

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	ient:	

Site Location:

89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year $\frac{4pril 2017}{1017}$

O&M Tech(s):

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tem No.	Action	Remarks & Observations	Date I	Initi
	Discha	rge Monitoring		
1	Collect monthly discharge samples		4/10/17	Ç
2	Record pH and flow meter readings in EPS		4/10/17	i
3	Record pH and flow readings at POTW		4/10/17	. 8
4	Submit samples to laboratry for analysis		4/10/17	Ţ
***************************************			, , , , , ,	_
	Si	ite Security		
1	Gates secured & locked		4/10/17	Ŷ
2	Access roads		4/10/17	ľ
3	Site utilities operational		4/16/17	******
4	Inspect fire extinguishers and sign tag		4/10/17	r
5	Inspect all fence lines for holes or breaks		4/10/17	١
6	Inspect all buildings for security		4/10/0	Ł
			1 (, > / > -	
	Site	• Monitoring		
1	Inspect landfill cap		4/10/17	Ý
2	Vegitative cover		4/10/17	٧
3	Cement company pond (Geotextile & stone)		4/10/17	Ķ
4	Inspect rip-rap		4/10/17	Ľ
5	Inspect ditches/swales and catch basins		4/10/17	V
6	Hudson River bank		Hich	K

Revision Date:

1/6/2017

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Month/year

Date of visit:

O&M Tech(s):

ROUTINE	MONTHLY	ACTIVITIE
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Item No.	Action	Remarks & Observations	Date Initia
	Disch	arge Monitoring	,
1	Collect monthly discharge samples	Collectura 1030	5/2/17 60
<u>ب</u> 2	Record pH and flow meter readings in EPS		5/2/17 11
	Record pH and flow readings at POTW		5/3/17 60
4	Submit samples to laboratry for analysis		3/9/17 (4
	-		
		Site Security	
1	Gates secured & locked		5/2/17 60
2	Access roads		-3/2/17 60
3	Site utilities operational		5/2/17 60
4	Inspect fire extinguishers and sign tag		5/2/1 60
5	Inspect all fence lines for holes or breaks		5/3/17 CC
6	Inspect all buildings for security		5/0/17 6(
		e Monitoring	
1	Inspect landfill cap		1781/ CC
2	Vegitative cover		5/2/1) ((
3	Cement company pond (Geotextile & stone)		5/2/17 ((
4	Inspect rip-rap		3/2/17 60
	Inspect ditches/swales and catch basins		5/3/17 GC
. 5	mapede areanes/swares and caterral basins		

Revision Date:

1/6/2017

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

C!		

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

anteagroup

Month/year Date of visit:

O&M Tech(s): Ganch Croud

Item No.	Action	Remarks & Observations	Date Init
110111101	(Action	nemarks & Observations) Date Init
	Disch	harge Monitoring	
1	Collect monthly discharge samples		6/6/17 60
2.	Record pH and flow meter readings in EPS		6/6/17 60
3	Record pH and flow readings at POTW		6/6/17 60
4	Submit samples to laboratry for analysis		6/6/17 60
		Site Security	
1	Gates secured & locked		6/6/17 60
2	Access roads		14/6/17 60
3	Site utilities operational		7/1/17 60
4	Inspect fire extinguishers and sign tag		7.71/17 60
5	Inspect all fence lines for holes or breaks		6/1/17 60
6	Inspect all buildings for security		6/6/17 60
	Si	ite Monitoring	
1	Inspect landfill cap		6/6/17 66
2	Vegitative cover	brassnerds to be cut	6/6/17 61
3	Cement company pond (Geotextile & stone)		16/6/17 67
4	Inspect rip-rap		6/6/17 61
5	Inspect ditches/swales and catch basins		6/6/17 (
6	Hudson River bank		6/6/17 66

Revision Date:

1/6/2017

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

antea group

Month/year

Date of visit:

O&M Tech(s):

Item No.	Action	Remarks & Observations	Date Initials
		scharge Monitoring	1 1/2/15 1 2
1	Collect monthly discharge samples	Yes	//5/17 6(
2	Record pH and flow meter readings in EPS	<u>Y-5</u>	1/3/17 66
3	Record pH and flow readings at POTW	Yes	7/3/17 66
4	Submit samples to laboratry for analysis	¥-5	7/3/17 66
		Site Security	
1	Gates secured & locked	Yes	1/3/17 60
2	Access roads	165	7/3/17 6-6
3	Site utilities operational	XS.	7/3/17 66
4	Inspect fire extinguishers and sign tag	Yes	7/3/17 66
5	inspect all fence lines for holes or breaks	YES	7/317 14
6	Inspect all buildings for security	<u>Yes</u>	7/3/17 6(
	··········		
		Site Monitoring	10/2
1	Inspect landfill cap	45/900d	1/3/17 6.6
2	Vegitative cover	Yes Vigued	7/3/17 66
3	Cement company pond (Geotextile & stone)	g&a/0	7/3/17 GC
4	inspect rip-rap	() 9000	7/3/17 (3
5	Inspect ditches/swales and catch basins	1 3000	7/3/17/60
6	Hudson River bank	1 yaxel	7/2/7 (1
		COMMENTS	1121100
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Revision Date:

1/6/2017

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Month/year

Date of visit:

ROUTINE MONTHLY ACTIVITIES

O&M Tech(s):



tem No.	Action	Remarks & Observations	Dota
		T Name to a conservations	Date
	Disch	arge Monitoring	
1	Collect monthly discharge samples		8/1/17
2	Record pH and flow meter readings in EPS		8///13
3	Record pH and flow readings at POTW		3/1/17
4	Submit samples to laboratry for analysis		9/1/11
		,	- 1/4/1/6
	s	ite Security	
1	Gates secured & locked		4/1/17/
2	Access roads		3/1/1/
3	Site utilities operational		- 0/1/1/ C
4	Inspect fire extinguishers and sign tag		5/1/2
5	Inspect all fence lines for holes or breaks		7/1/11
6	Inspect all buildings for security		10/1/1/
			10/1/11
	Site	e Monitoring	
1,	Inspect landfill cap		911/17 (
2	Vegitative cover	Knee high	8/1/17
3	Cement company pond (Geotextile & stone)	The state of the s	8/1/17
4	Inspect rip-rap		8/1/17
5	Inspect ditches/swales and catch basins		8/1/17
6	Hudson River bank		12/1/19
	C	OMMENTS	- U''' I'

Revision Date:

1/6/2017

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Month/year

9/17

ROUTINE MONTHLY ACTIVITIES

Date of visit:

O&M Tech(s):

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tem No.	Action	Remarks & Observations	Date	Initi
			- Date	
		charge Monitoring		
1	Collect monthly discharge samples		9/5	61
2	Record pH and flow meter readings in EPS		975	126
3	Record pH and flow readings at POTW		9/6	GC
4	Submit samples to laboratry for analysis	Sub niting to morrow AM	9/5	1-7
			17 3	~_
		Site Security,		
1	Gates secured & locked		19/5	1/
2	Access roads		015	1 1
3	Site utilities operational	V/	9/5	127
4	Inspect fire extinguishers and sign tag		91/2	7
5	Inspect all fence lines for holes or breaks	1 7	dis	129
6	Inspect all buildings for security		37	100
			17/5	
		ite Monitoring		
1	Inspect landfill cap	V/	Ý5	1/1
2	Vegitative cover	7/	9/5	1/
3	Cement company pond (Geotextile & stone)		4/5	1427
4	Inspect rip-rap	1	a/5	127
5	Inspect ditches/swales and catch basins		7/5	161
6	Hudson River bapk		9/2	1.1
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<i>[[]]</i>	14/1			
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Ciba-Geigy/Hercules Incorporated - Glens Falls, NY

O&M Completion Log
Routine Monthly Activities - Month/Year 10/17

Item No		Remarks & Observations	Date	Initials
		ge Monitoring		11
1	Collect monthly discharge samples	ge ivioliteoring	10/4	166
2	Record pH and flow meter readings in EPS		10/4	66
3	Record pH and flow meter readings in Er s		10/4	60
4	Submit samples to laboratry for analysis		10/4	BC
		Security	10/-	
1	Gates secured & locked		10/4	60_
2	Access roads		10/4	U_
3	Site utilities operational		16/4	166_
4	Inspect fire extinguishers and sign tag		10/4	(9)
5	Inspect chemical storage cabinets		16/4	66
6	nspect all fence lines for holes or breaks		10/4	60
7 1	nspect all buildings for security		10/4	15
		Monitoring	110/-	
1 Ir	nspect landfill cap		10/4	16
2 V	egitative cover		10/4	11
Ce	ement company pond (Geotextile & stone)		10/1	CC
	spect rip-rap		10/4	1
	pect ditches/swales and catch basins		10/4	60
	dson River bank		16/4	CC
1.14	accit titel balk	the same of the sa	1614	100

COMMENTS

Revision Date:

1/6/2017

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Month/year Date of visit:

O&M Tech(s):

ROUTINE MONTHLY ACTIVITIES

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Item No.	Action	Remarks & Observations	· Date	Initials
	Discha	rge Monitoring		
1	Collect monthly discharge samples		11/0	160
2	Record pH and flow meter readings in EPS		11/7	160
3	Record pH and flow readings at POTW		11/6	66
4	Submit samples to laboratry for analysis		11/7	160
				-
	Si	te Security		
1	Gates secured & locked		11/6	6/
2	Access roads		11/6	1/27
3	Site utilities operational		11/6	17.7
4	Inspect fire extinguishers and sign tag	-	11/6	757
5	Inspect all fence lines for holes or breaks		11/6	66
6	Inspect all buildings for security		11/4	190
			1	
	Site	e Monitoring		
1	Inspect landfill cap		11/6	66
2	Vegitative cover		11/6	66
3	Cement company pond (Geotextile & stone)		11/7	W
4	Inspect rip-rap		11/0	66
5	Inspect ditches/swales and catch basins		11.7/2	ĠÇ
6	Hudson River bank		1176	125-

Winterization Complete

Revision Date:

1/6/2017

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

ROUTINE MONTHLY ACTIVITIES

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Month/year

O&M Tech(s):

Date of visit:

12/11/17

anteagroup

tem No.	Action	Remarks & Observations	Date Initia
	Discha	rge Monitoring	
1	Collect monthly discharge samples		112/11/17 166
2	Record pH and flow meter readings in EPS		12/11/17 66
3	Record pH and flow readings at POTW		13/11/17 15
4	Submit samples to laboratry for analysis		(2/11/17 6.0

	Sī	te Security	
1	Gates secured & locked		12/1/17 GC
2	Access roads		10/11/17 60
3	Site utilities operational		13/1/17 R1
4	Inspect fire extinguishers and sign tag		12/11/17 60
5	Inspect all fence lines for holes or breaks		19/1/17 127
6	Inspect all buildings for security		12/1/17 60
	-		11-7-11-11-1-1-1
	Site	Monitoring	
1	Inspect landfill cap		12/11/17 60
2	Vegitative cover		12/11/17 166
3	Cement company pond (Geotextile & stone)		13/11/17 17. [
4	Inspect rip-rap		12/11/17 750
5	Inspect ditches/swales and catch basins		13/11/17 1.0
6	Hudson River bank		112/11/17 120

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit:



	T		COMPUT	ER		WELL/SU	IMP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW		ogger oaded?	Locke	osure d/Weil led?
SUMP A	N/A		13.8	1358565.7	0.0	0	0	25.11	Yes	(NO)	Yes	(No
SUMP B	NIA	-	0.0	45629961	0.0	Ö	0	.23.45	Yes		(es	No
EPS WET WELL	NA		0.0	Net: 2752490 Gross: 6577366	0.0	NA	N/A	NA	- 1		Yes	No
MW-OB33	N. 4		983		212 212		was. The	NA	Yes	(No)	6 9	No
MW-OB34			· · ·		74.	10 j. - 10 j.		NA	Yes	(No)	(es)	No
MH-4	N. (2. N. N.	4 (14 <u>4 1</u> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40.40 mil		anv <u>il</u> Na Vil		1/1/2/2/	18,47	Yes		Yes	No
EW-B5		Star El Mai	74,5		••	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Con	31.58	Yes	(No)	(Yes)	No
ID	1		Level	STAFF	GAUGES Gauge Ot	structed?	Gauge (leaned?	1	Comi	nents	
RIVER		~ 2			Yes	(No)	Yes	(No)				
QUARRY			DRY		Yes	(No)	Yes	(NO)				
		4		SITE IN	SPECTION							
	T					*			(Yes)	ival No		arture
1		All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)									((es)	No
2		All access roads clear? (if no, state details in notes section)									Yes (Yes)	No
3	Site utilities operation? (if no, state details in notes section)										Yes) No
4		Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section)										(No
5	1			details in notes section)	Ammer Co.				Yes		Yes	No
, 6	1 -			ite details in notes section)					Yes	(No.)	Yes	(No
7 otes:	Any stormw	ater basin ar	ea disturban	ces? (if yes, state details in note	es section)				Yes	(No)	Yes	(No
o Mu o Tr di	utiple anso re	e m lucer to	ice of Bo What	n SumpA dead in t anotroll d there (ra	ata in).	was	s ho	t di	ou	nlo	>06 1	de
· Te	my B	ohn	onsi	te for te	lemet	ry S	MSAC	M U	pg	Vac	le,	?

MW-0B33 & MW-0B31 were unable to be checked this week doke of Slippy conditions on hillside.

Removed water from Jump house computer room with shop vac.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit: 12/5
O&M Tech(s): Kartis



			COMPUTI	FR		WELL/SUI	MP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datalo Downlo		Enclo Locked Seal	d/Well
SUMP A	IIItelvai	All 92	13.8	13869931	13.6	8	Θ	25.81	Yes	No	Yes	™
		211,82				0	ð	24 84	Yes	No	(69)	No
SUMP B	-	31201	94.6		į	$ \cup$ $ $		07.41	1550		_	
EPS WET WELL		温	3 5 8	Net: 3104850 Gross: 5929673	NA	Na	NA	NA		-	(19)	No
MW-OB33	Military							4.45	Yes	No	(Yes	No
MW-OB34	1.50 L. A.A.	-	34.				10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	افاءر	Yes	No	(es)	No
MH-4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						•	1883	Yes	No	Yes	No
EW-B5								3223	Yes	No	Yes)	No
EAA-DO	1 10000 77		L	STAFF	GAUGES							
ID	т		Level		Gauge Of	ostructed?	Gauge (Cleaned?	<u> </u>	Com	ments	
RIVER			211	10	Yes	(6)	Yes	(No)	Ιce	41	eday	cf v
QUARRY			Dry		Yes	No	Yes	No				
				SITE IN	SPECTION				Arr	ival	Dep	arture
									(Yes	No	(Yes	No
1				locked? (if no and there is evide	ence of trespas	sing, notity Pivi				(63)	Yes	
2	All access i	oads clear? (if no, state d	etails in notes section)					Yes	No		No
3				etalis in notes section)					(es)	NO	(19)	(No
4	Standing w	ater in bedro	ck extraction	well vaults? (if yes, state which	r vaults in note	s section)		····	Yes		Yes	(No
5	Any visible	site erosion?	(if yes, state	e details In notes section)					Yes	6	Yes	Q19
6				ate details in notes section)					Yes	(i)	Yes	
7			0 1	ices? (if yes, state details in not	as section)				Yes	(40)	Yes	(V)

Notes: Lack broken on sump A.

I ce boildup on western accest roads.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Ciient:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit:

1/19/2017

Time of visit: OS15 O&M Tech(s): Byan Reley



	1		COMPUT	ER	WELL/SUMP HEAD									
WELL ID	Well Setpoint/ Interval	Setpoint/ Well Level GPM Totalizer GPM PSI 1 PSI 2 DTW							etpoint/ Well Level GPM		Datalo Downlo		Encle Locke Sea	d/W
SUMP A	212.50	311,38	13.9	1422137.9		-		27.16	(A)	No		Ž		
SUMP B	214.0	213,46	88.1	46194352	88.5	4-	4	24.89	Yes	No +	Yes	No		
EPS WET WELL	NA	NA	NA	Net: 3463946 Gross: 6288761	NA	NA	NA	NA			(Yes)	N		
MW-OB33		33.4-33.5			15:14:15:15			7.38	Yes	No⊸	Yes	N		
MW-OB34	374-33	A STATE OF THE STA			## # \$\$\$			13.71	(Yes)	Νo	Yes	N		
MH-4	The Even	:	EB AB					18,69	Yes	No	Yes	N		
EW-B5	3334,153	Nils					1889; <u>1</u> 1893	32.62	Yes	No	Yes	N		
		<u> </u>	1000	STAFF	GAUGES				and the state of t		S. Charles			
ID	Level Gauge Obstructed? Gauge Cleaned2								.	Com	ments			
RIVER		2,05			Yes	(No)	Yes	No						
QUARRY		لمر 📗			Yes	(No)	Yes	(No						
		<u>.</u>		SITE IN	ISPECTION				Arr	ival	Depa	erten		
	1.00	. t. l ll. di		locked? (if no and there is evide	nco of trospass	slan potify PM	······································		Yes	No	ক্রি	N		
1					- Inde of trospao.	Jing, 110x11, 1 111			Yes	No	Yes	N		
2	. i			etails in notes section)					Yes	No	(es)	N		
3	1			etails in notes section)					-	-				
4				well vaults? (if yes, state which	vaults in notes	section)			Yes	(No)	Yes	0		
5	Any visible	site erosion?	(if yes, state	details in notes section)					Yes	(No)	Yes	Č		
6	Any housek	eeping issues	s? (if yes, st	ate details in notes section)					Yes	No.2	Yes	(
7	Any stormwater basin area disturbances? (if yes, state details in notes section)										Yes	Ą		

Did not check all voults for water himited on time today.

New lock point for Sump A in process of being mule. Will be replaced when finished.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit: Time of visit:

O&M Tech(s): K. AVICE



	T		COMPUT	ER		WELL/St	JMP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datalo Downlo		Enclo Locke Sea	d/W€
SUMP A	2/2.50	211.25	0	1455140.9	0	O	0	26.69	(es)	No	Yes	Ø
SUMP B	214	21243	0	46464755	Ö	0	0	83.43	(P)	No	(Yes)	No
EPS WET WELL	NA	NA	80	Net: 3810727 Gross: Lele 35549	78.7	NA	NA	NY			(es)	N
MW-OB33								7.15	(res	No No	(es)	N
MW-OB34					14 4 3 1 1 1			13.17	Yes	No	(Yes	N-
MH-4								18.46	(Yes)	No	(Ves)	N
EW-B5							188829	31.71	(Yes)	No	(Y63)	N
			<u> </u>	STAFF	GAUGES		·		·		ments	
ID			Level		Gauge O	structed?	 	Cleaned?		COIL	Hents	
RIVER			2.9	•	Yes	(No)	Yes	(No)				
QUARRY	7	ירע			Yes	(N)	Yes	(No)				
				SITE IN	SPECTION				Arri	ival	Dep	artur
									(Yes)	No	(Yes	N
1				ocked? (if no and there is evide	ence of trespas	sing, nouty Fr	***)		(A)	No	Yes	N
2	1			etails In notes section)							(Yes	N K
3	1			etalis in flotes section)					(Yes)	No		
4	Standing wa	ter in bedro	k extraction	well vaults? (if yes, state which	vaults in note	s section)			Yes		Yes	5
5	Any visible	site erosion?	(if yes, state	details in notes section)					Yes	(No	Yes	0
6	Any housek	eeping issue	s? (if yes, st	ate details in notes section)					Yes	(No)	Yes	(
7	Any starmy	ator hasin ar	ea disturban	ces? (if yes, state details in not	es section)				Yes	(No	Yes	(

New lock point for 30 mp A is being made. Will be replaced when ready.

Labelad Mew 0 B 33 & Mw-0 B 34.

Removed water from jump house floor in control room.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit: _/o: O&M Tech(s):



		<u> </u>						Victoria de la companya de la compa	1944, 1, 1			********
	1		COMPUT	ER		WELL/SU	MP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datale Downle		Locke	osure d/Wel led?
SUMP A	21250	2//31	0	1489358. 4	0	٥	0	26.35	©	No	Yes	®
SUMP B	214	213.48	0	46707699	·			25.32	(b)	No	(es	No
EPS WET WELL	NA	NA	0	Net: 4131383 Gross: 6456198	WA	NA	NA	AN		•	(P)	No
MW-OB33	4 (2006)					1		7.28	SS)	No	Yes	No
MW-OB34	Property Control				-			13.19	®	No	(Yes	No
MH-4								18.53	(F)	No	(eg	No
EW-B5	10.20	**************************************	nn _e se,					31.86	(4)	No	@	No
					GAUGES							
ID			Level			structed?		Cleaned?		Comi	nems	
RIVER			27	0	Yes	(Na)	Yes	(Ng)				
QUARRY		\mathcal{D}	14		Yes	(S)	Yes	™	<u> </u>			
			1	SITE IN	SPECTION				Δrr	ival	Dena	ırture
1	All Gatos ar	d huildings s	ecured and	locked? (if no and there is evide	nce of trespass	sina. notify PM	1		(Tes)	No	Ves)	No
2				etails in notes section)			,		(Yes)	No	(G)	No
3				etails in notes section)					(e)	No	(Ps)	No
4				well vaults? (if yes, state which	vaults in notes	section)			(Yes)	No	Yes	(No
5				e details in notes section)					Yes	(No)	Yes	(No.
6	<u> </u>			ate details in notes section)					Yes	No	Yes	(0)
7				ces? (if yes, state details in note	es section)				Yes	(No.)	Yes	(No)
,	, any occition	LLDI DUOIRI UI							L			

New late for Sump 4 is being made will be replaced when steady

Removed water from EW-A3.

Collect monthly POTO soupting.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 2/6/1

Time of visit: 0130 - Kcs/, C



	T		COMPUT	ER		WELL/SU	MP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datale Downlo		Enck Locke Sea	d/We led?
SUMP A	212.5	211.62	(ზ	1518502	0	0	0	25:76	(%)	No	Yes	(No
SUMP B	214	212.97	$\tilde{\circ}$	46896336	-	0	Ò	23.22	(Yes)	No	(Yes)	No
EPS WET WELL	NA	14	0	Net: 4379664 Gross: 7204479	NA	NA	NA	NA			(Vi)	No
MW-OB33								7.41	/® >	No	(Fe)	No
MW-OB34			4 V 3 V					13.57	(A)	No	(1)	No
MH-4		1112111						18.61	69	No	®	No
EW-B5	1452111		-				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 .15	6	No	Yes	No
	.,	<u>. </u>		STAFF								
ID		Level Gauge Obstructed? Gauge Cleaned?									nents	
RIVER			2.3	ე	Yes	B	Yes	(No)				
QUARRY		Da			Yes	(No	Yes	(B)			****	
		<u>CF 1.</u>										
									- CO-1	ival	_	rture
1	All Gates an	d buildings s	ecured and l	locked? (if no and there is evide	nce of trespas:	sing, notify PM)		(es)	No	100	No
2	All access r	oads clear? (i	f no, state d	etails in notes section)					(Yes)	No	Yes _	No
3	Site utilities	operation? (i	f no, state d	etails in notes section)					(AB)	No	®	No
4	Standing wa	iter in bedroc	k extraction	well vaults? (if yes, state which	vaults in notes	s section)			Yes	(Nb)	Yes	(No)
5	Any visible	site erosion?	(if yes, state	details in notes section)					Yes	(N)	Yes	1
6	Any housek	eeping issues	? (if yes, st	ate details in notes section)					Yes	(M),	Yes	(G)
7	Any stormy	ater basin are	a disturban	ces? (if yes, state details in note	es section)				Yes	(N)	Yes	(No

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client;

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit:

3/15/17

Time of visit: 10: 20 mg = 10 mg.



			COMPUT	ren		WELL/SU	MP HEAD					
			COMPUT	ER		FFEEDO	111111111111111111111111111111111111111			$\neg \neg$	Enck	
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI1	PSI 2	DTW	Datalo Downlo		Locke Sea	d/We
SUMP A	21250	211.42	13.9	157764 7.9	13.5	20	10	26.75	@	No	Yes	•
SUMP B	214.00	213.04	0	47138280		,		23.26	6	No	Yes	No
EPS WET WELL	NA	14	Ò	Net: 4832230 Gross: 76570456	0		-		5		(Yes)	No
MW-OB33	120 1 14 1		1904 - NO		1994	10112		_	Yes	(b)	69	No
MW-OB34	1914 No.				- I				Yes	(A)	6	No
MH-4			1,574,750		11.		444 <u>-</u> 544	18.60	6	No	(Yés	N
EW-B5	4441.							31.83	(3)	No	(ES)	N
	.1	l										
ID	1		Leve		Gauge Ol	structed?	Gauge (Cleaned?		Comr	nents	
RIVER		2.	00		Yes	6 6	Yes	(B)				
QUARRY		Dru			Yes	(No)	Yes	No				
				SITE IN	SPECTION				Arr	ival	Depa	rtur
1	All Gates an	d buildings s	ecured and	locked? (if no and there is evide	nce of trespas	sing, notify PM)		(P)	No	Yes	N
2	All access r	Il access roads clear? (if no, state details in notes section)										N
3	Site utilities	te utilities operation? (if no, state details in notes section)									Yes	N
4	Standing wa	anding water in bedrock extraction well vaults? (if yes, state which vaults in notes section)										N
5	Any visible	visible site erosion? (if yes, state details in notes section)										Ø
6	Any housek	eeping issue	s? (if yes, st	ate details in notes section)					Yes	(h)	Yes	ć
7	1			nces? (if yes, state details in note	a anation!				Yes	(No)	Yes	6

Used snop vac to the remove water in pump house
Access roads have been plowed, rest of site covered with of snow.

Did not gauge or download data Soon MW-0B33 & MW-0B34 . Too much snow to go down hilloide safely.

Most of extension wells covered with snow. Did not have time to dig out all to check for pater

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 2/22/17

Time of visit: 10:30

O&M Tech(s): Kacie



			COMPUT	ER		WELL/SU	MP HEAD				ļ	
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datalo Downlo		Locke	
SUMP A	212.5	211.74	0	1619182.6	6	0	0	25064	(A)	No	Yes	(No
SUMP B	214.0	213.96	0	47491838	-			24.83	(es)	No	Yes	No
EPS WET WELL	NA	NA	0	Net: 5/7269 9 Gross: 7997514	Ŏ	-	-	<u>-</u>			(Yeg)	No
MW-OB33	10.21.50	N				33 - 4 3 3 3	-4410 <u>}-</u> 1510	7.0	(F)	No	(es)	No
MW-OB34	10041010						111 111 11 11 11 11 11 11 11 11 11 11 1	12-33	6	Νo	Yes?	No
MH-4	44 <u>- 1</u> (1)		\$44 <u>2</u> 133					18,48	(6)	No	(Yes)	No
EW-B5	150 <u>H</u> 1755							3,40		No	Yes	No
	1			STAFF	GAUGES				т			
ID			Level		Gauge Ol	structed?		Cleaned?		Comi	ments	
RIVER		2.90				(No)	Yes	No				
QUARRY			Dru		Yes		Yes	No				
				SITE IN	SPECTION				Arri	ival	Deni	arture
	T			ocked? (if no and there is evide	nee of traepase	eina notify PM	1		(63)	No	Yes	No
1					ince or trespus	sarg, noary i m	1		(es)	No	Yes	No
2		All access roads clear? (if no, state details in πotes section)									Yes	No
3		Site utilities operation? (if no, state detalls in notes section)							(Ves)	No		
4	Standing wa	ater in bedroc	k extraction	well vaults? (if yes, state which	vaults in notes	section)			Yes	(No)	Yes	No
5	Any visible	site erosion?	(if yes, state	details in notes section)					Yes	(No)	Yes	(NB)
6	Any housek	eeping issue:	s? (if yes, st	ate details in notes section)					Yes	(M)	Yes	0
7	Any otarmu	rator hacin are	a disturban	ces? (if yes, state details in not	es section)				Yes	(Ng)	Yes	No

Notes:

Replaced dessiant beach in Sump A.

Blaks have been installed above hillside wells to the off to.

Initial Issue Date 11/3/2016

Revision Date: Revised By:

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 3/2/17

Time of visit: 7:30 arm -5:30

ORM Techisi: Katio Armal Stell Knowlet



			COMPUTE			WELL/SU	MP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	WTQ	Datalo Downlo		Enclo Locked Seal	d/Weil ed?
SUMP A		21151	100	1681,078	0			25.20	(es)	No	Yes	No
	2125		13.8	47730981	\tilde{O}			24.0	(es	No	(es)	No
SUMP B	214	213.16		Net: 5650506				<u> </u>			(Yes	No
EPS WET WELL	-	14	83.8	Gross: 4475329				_	5	1.7	(Jes	140
	100000000000000000000000000000000000000	्रम्यु सन्देशकार्यम् -	00	5 7 7 3 3 3	9.02.3503			6.92	(es	No	Yes	No
MW-OB33	(3) - 1113 VIII 1114						1,10 (No. 10.100)	11.19	(6)3	No	Nes	No
MW-OB34	Marie et de la company	A CONTRACTOR					1000	18.49	(es	No	(Yes	No
MH-4		**************************************			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1000	29.85	(Ves)	No	(fes	No
EW-B5	1000 - 1000	33.5333.53										
			Cleaned?		Com	nents						
ID RIVER	U 50	60.58	Level	5.80 € 10:56	Yes	bstructed?	Yes	(NO)	Rive	w 18	<u>بط ر</u>	hv
QUARRY	-1,30	4.50 @8:58 5.80 @ 10:56 Yes No Yes N										
GUARRI			7	SITE IN	SPECTION				Arr	lual	Dan	arture
									_		- 	7
1	All Gates ar	nd buildings :	secured and	locked? (if no and there is evide	ence of trespas	sing, notify PN	1)		(Yes)	No No	Yes	No
2		All access roads clear? (if no, state details in notes section)									Yes	No
3	1	Site utilities operation? (if no, state details in notes section)									Yes	No
4	Standing W	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)									Yes	N
		Any visible site erosion? (if yes, state detalls in notes section)										N
6				ate details in notes section)					Yes	(No	Yes	N
7				ices? (if yes, state details in no	as section)				Yes	(No)	Yes	6

Notes:
10 Groundworker sampling event took place all week.

Work being done on canal mext to site on d off all week

transducers

Mw-0833 8-Mw-0834 Stopped during sampling on 3/2/17

Initial Issue Date 11/3/2016

Revision Date: Revised By:

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:
Time of visit:

O&M Tech(s):

Autic A Angel

40 cm - 11 - 11 -							4D LIE AD					
			COMPUTE	R		WELLISUM	AP HEAD				Enclos	sure
WELL ID	Well Setpoint/	Well Level	GPM	Totalizer	GPM	PSI1	PSI 2	DTW	Datalog Downloa		Locked Seale	/Well
	Interval			1.016 0111	0		,	26.28	(e)	No	Yes	(No)
SUMP A	211-2125	211.46	<u> </u>	1746941	0			23.23	Yes	(NO)	Yes	No
SUMP B	211-5-214	212.41	\mathcal{O}								(Yes)	No
EPS WET				Net: 603/339 Gross: 445/454								No
WELL			-	Gross: 8856154				7.27	Yes	No	(Yei)	No
WM-OB33	-	**			110-110				Yes	<u> </u>	(Visi)	No
MW-OB34		**************************************			334-33	1. A		18.65	Yes	No	(Yes)	No
MH-4					: 12:50 <u>.</u> 1:50.			31,21	Yes	No	(les)	140
EW-B5	40.41	•	L	STAF	F GAUGES		Caugo	Cleaned?		Com	ments	
			Leve		Gauge C	bstructed?	Yes	(No)	T			
ID		0.0			Yes	(No)						
RIVER		J, C		<u> </u>	Yes	No No	Yes	No No	<u></u>			
QUARRY			Dry	SITE 1	NSPECTION				1 Ar	rival	Dep	artur
			<u>-</u> _						(Ves)	No	Yes	N
	Ali Gates a	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)									Yes	N
2	All access	All access roads clear? (if no, state details in notes section)								No	Yes	> 1
3		tion?	Of no state	details in notes section)	to to not	ne section)			Yes	(No	Yes	
4	Standing	water in bedr	ock extractio	n well vaults? (if yes, state whi	ch vautes in not	ea aconony			Yes	(No	Yes	1
5	Any visibl	e site erosio			Yes	No	Yes	ς,				
6	Any hous	ekeeping issi	ues? (if yes,	state details in notes section)	etec eaction)		<u>., .,,,</u>		Yes	No	Yes	<u>; (</u>
7			area disturb	ances? (if yes, state details in n	Orea programi							

Canal wall is still in the process of being fixed

While connecting to transducer at MW-0B33, had some connection issues but was able to connect long enough to download data.

At sump B was able to that long enough to B varify transducer KOIA difference but four link disconnet and was unable to get back on long enought to download data for Sump B or MW-0834.

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 3

Time of visit: 1130 cm.
O&M Tech(s): Ladic Arcyl

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET



SUMP A 2//	Well Setpoint/ Interval	Well Level	COMPUT	ER								
SUMP A 2//	Setpoint/ Interval	Well Level				WELL/SU	MP HEAD					
217			GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datale Downle		Locke	osure ed/Wel led?
SUMP B 211.	1-2/25	211.52	14.1	177148.0	13.7	4	4	26.74	Yes	(M)	Yes	No
		213.85	Ò	47900261	41.45m		المحاور وما	23,99	Yes	(NO)	(Yes)	No
EPS WET WELL			٠ ـ ـ ـ	Net: (02)9998 Gross: 90448/4					7 €		(es)	No
MW-OB33	(H.1. 1845)	NA E NA	200		gangera.		Har bar	7.41	Yes	(<u>M</u>)	Yes	No
MW-OB34		14 - 12 1			Bar Care			13.05	Yes	(NO)	(Yes)	No
MH-4	M. 14.				EFORE	Kara 4 jaka		18.72	Yes	(NO	Yes	No
EW-B5		100 - 1 00 100			14 1	N.S. <u>-</u> 10-41		31.79	Yes	®	₹	No
				STAFF								
di		Level Gauge Obstructed? Gauge Cleaned?								Comr	nents	
RIVER '			3.	0	Yes	€ No. >	Yes	<. Ño				
QUARRY	Dry Yes (No.											
				SITE IN:	SPECTION				Arr	heal	Dans	arture
1 All	I Gates and	l buildings s	ecured and le	ocked? (if no and there is evide	nce of trespass	ing, notify PM	<u> </u>		Q€ <u>\$</u>	No	Yes	No
2 All	l access ro	ads clear? (i	f no, state de	etails in notes section)					(Yes)	No	Yes	No
3 Site	te utilities o	peration? (i	f no, state de	etails in notes section)					₹	No	Yes	No
4 Sta	anding wat	er in bedroc	k extraction	well vaults? (if yes, state which	vaults in notes	section)			(Yes)	No	Yes	₫Ņō.
5 Any	ny visible si	water in bedrock extraction well vaults? (if yes, state which vaults In notes section) ble site erosion? (if yes, state details in notes section)								6	Yes	No
6 Any	ny houseke	eping issues	37 (if yes, sta	te details in notes section)					Yes	(N)	Yes	No
7 Any	ny stormwa	ter basin are	a disturbanc	es? (if yes, state details in note	s section)				Yes	<u>a</u>	Yes	No

Notes:
Transducer Comm Device malfunctioning sent back to manufactor for new Comm
cable. Unable to down load data without working Comm Device.

Against new locking mechanism for Sung A will install next visit.

Remard water from ED-A3

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: $\frac{3/23}{100}$

O&M Tech(s): Katio Angel



			COMPUT	ER		WELL/SU	MP HEAD]		
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datalo Downlo		Sear	d/Wei
SUMP A	211-2125	211.61	0	1840278,9	0	Ţ		25.52	(Yes)	No	Yes	No
SUMP B	111.5-214		84.3	48027451	O			24.13	(es)	No	(Yes)	No
EPS WET WELL	_	-		Net: UC6 9524 Gross: 9494339	_		 .		**************************************	1940 1744	-Yes	No
MW-OB33			-					7.34	_Yes⊃	No	Yes	No
MW-OB34	140							12.43	(Yes)	No	(Yes)	No
MH-4		Tel Vines					<u>.</u>	18.66	∠Y®s	No	Yés)	No
EW-B5	12022	S				1100	Nierij <u>a</u> enski	31,72	(es	No	(Yes)	No
	L		L	STAFF	GAUGES							
ID	1		Level		Gauge Ol	structed?	Gauge	Cleaned?		Com	ments	
RIVER			3.05	3	Yes	(No)	Yes	CNo >				
QUARRY			Dry		Yes	∠No.2	Yes	(No.)				
	1			SITE IN	SPECTION				Arri	tual	Depa	
										~	(Yes)	
1	All Gates an	d buildings s	ecured and I	ocked? (if no and there is evide	nce of trespas	sing, notify PM)		(es			No
2	All access re	oads clear? (if no, state d	etails in notes section)					(Yes)	No	(Yes)	No
3	Site utilities	Site utilities operation? (if no, state details in notes section)							(Yes)	No	(Yes	No
4	Standing wa	ter in bedroo	k extraction	well vaults? (if yes, state which	vaults in note:	s section)			Yes	(NO)	Yes	(No
5	Any visible	site erosion?	(if yes, state	details in notes section)					Yes	(NO)	Yes	(No
6	Any housek	eeping issue	s? (if yes, sta	nte detalls in notes section)					Yes	(No)	Yes	(No
7	Any stormu	ater hasin ar	oa disturban	ces? (if yes, state details in not	es section)				Yes	(No)	Yes	(No

Howe rental Troll Comm Device while waiting for replacement.

Sump B flow mater is pretly erratic jumping from loogpm to 50 to 100 to 80 and within a 15 sec stretch

Replaced dessicant books it Sump B

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Ashland, inc. Client:

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit:

O&M Tech(s):

Xotic Angel



	Τ΄		COMPUT	ER		WELL/SU	MP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	PSI 2	DTW	Datale Downle		Encke Locke Seal	
SUMP A	211-212.5	21139	Ó	1882898	0			25.21	(Yes)	No	(Yes)	No
SUMP B	211.5-214			48429912	0	,		23,90	Yes.	No	(7eg)	No
EPS WET WELL	-		_	Net: 6940193 Gross:9745008	`	-	_				Yes	No
MW-OB33							W. P	6.99	(Yes	No	Yes	No
MW-OB34						- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		12.33	Yeş	No	Yes	No
MH-4	14112411				en <u>i</u> graf		1888 . 198	18.36	(Yes)	No	Yes	No
EW-B5		13:12:13:	Ne L ine		S. 12 15 11		11 17 - 17	31.32	P	No	(Fes)	No
	·	L		STAFF	GAUGES			Cleaned?	1	Com	ments	
ID			Level		Gauge Ut Yes	structed?	Yes	(No)		COIL	HIGHLS	
RIVER			3.2		Yes	(NO)	Yes	(No		-		
QUARRY	<u></u>		Dry	SITE INS	SPECTION		100					
			<u> </u>	Official	JI 20 11011				Arı	ival	Depa	rture
1	All Gates ar	d buildings s	ecured and I	ocked? (if no and there is evider	nce of trespas	sing, notify PN	1)		(Fig.	No	Yes	No
2	All access r	oads clear? (if no, state d		æ,	No	Yes	No				
3	Site utilities	operation? (@	No	Yes	No					
4			time to d	Yes	No	Yes	No					
5	Any visible	site erosion?	(if yes, state	details in notes section)					Yes	16	Yes	No
6	Any housek	eeping issue	s? (if yes, sta	ite details in notes section)		,			(Yes)	No	Yes	No
7	Any stormy	ater basin ar	ea disturban	ces? (if yes, state details in note	s section)				Yes	ব্যত	Yes	No
with	adead	k short	(3GS	by 3/25/17. Power found. Wed.	3/29/17	back c	snorte to	o invest	t a	r W	yskr	7
				isement was								
ind	σ ω	et we	W ~	p to begin rem	~						,	npi
Voc/	id bu	th Te	rry f	com Aztech to a	shock of	we settle	ney at 5 actually	somp A B occurin	ido FRº	స్	gmi	
α	CM CK	Softing	s ax	e reporting lower Two above, and in pomensures until	- `				()		4.00	₩.C
Instal	led A	guatrall	, in a	m. and and in	d blater	ogguar.	colla av	e sould	rd.	.1		7
and	3-c111 B	325 a	s Leim	p measures until	(new	+1000 1	1000 01	ic ago			/	

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 4/5/17
Time of visit: 0835O&M Tech(s): X-tre. Qo



	1		COMPUT	ep ====================================	1	WELL/SI	JMP HEAD					
WELL ID	Well Setpoint/ Interval	Well Level	GPM	Totalizer	GPM	PSI 1	GU Ekmeyi	рт₩	Datalo Downlo		Enclo Locked Seal	i/Wei
SUMP A	211-212.5	2/2.50	0	1957573	Ö		216.66	23.23	©	No	(F)	No
SUMP B	211.5-24	213.51	Ŏ	48738481	0		21704	19.35	(Yes	No	(Yes	No
EPS WET			0	Net: 7397256 Gross: 10222071	~~~	-			7		(Ves)	No
MW-OB33						NATIONAL PARTY.	218.12	5.91	(es)	No	6 3	No
MW-OB34	-		11 N#1 X 14				213521		(((((((((((((No	(Ye.)	No
MH-4	Light and						520.87	17.99	(Yes)	No	Yes	No
EW-B5							206.14	29.61	(No	(Yes)	No
				STAF	GAUGES	5 -4 4 o d O	Course	Cleaned?	1	Comi	nents	
ID			Level		Yes	bstructed?	Yes	No		001111	icito	
RIVER			<u>5 • 3</u>		Yes	(No)	Yes	(No)	-			
QUARRY			Dry_	SITE IN	ISPECTION				J			
				0,12,11	0, 40, 40,				Arr	ival	Depa	rture
1	All Gates ar	d buildings s	secured and I	ocked? (if no and there is evide	ence of trespas	sing, notify PN	1)		es	No	'es	No
2	Ail access r	oads clear? (if no, state d	etails in notes section)					Yes	No No	(Yes)	No
3	Site utilities	operation? (if no, state de	etails in notes section)					(Yes)	No	(Yeg)	No
4	Standing wa	iter in bedroo	ck extraction	well vaults? (if yes, state which	vaults in note	s section)			Yes	(e)	Yes	(Nô
5.	Any visible	site erosion?	(if yes, state	details in notes section)					Yes	(B)	Yes	Œ
6	Any housek	eeping issue	s? (if yes, sta	ite details in notes section)					Yes	(M)	Yes	(No
7	Any stormy	ater basin ar	ea disturban	ces? (if yes, state details in not	es section)				Yes	(No)	Yes	(No
otes:		Drw	GW EI	Wai	JU	pper sec	100 08	pump how	rse V	nas V	20241	_
m	-0B30		269-16	Dougland? Ropland	COVOL C	looded.	~ 15t c	f water	ા∤ા	remo	uns	ìη
			1	2 y Replace	o na	sement.	would s	and dun	no gn	$\omega \omega'$	1 06.	¢
mu	-0322	4.87	233.59	Rivar		Step 5	to contin	ue, remo	vina	wate	« С	
	. 010	11 27	280.5		40.00				~	•		
		116,00	100	2 y th	2 Ala	arms on	4/3/17	e02:45	. 10		73	
	J-A14		100	(1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	. م ا	~ 44 ~	. NIIM	<i>5 1⊃</i>	
P		25,21	213.0		alls	Data vo	wall of four	03x 2011	p '' '	(50 .	•	
Ph) - B4	25,21			13/16	Data vo	ican Somi	אינט אט מינט אונ	tud tud	no t	How.	
Ph		25,21	213.0 5 196.3		-115 F	TC - Kecor	ding Sump	A as on	but	no 1	How.	c.\$
PAL AL	0-BH 0-CN	95,21 42,15	5 196.3		alls	TC - Kecor	ides four ding Sump water and at th	A as on	but	no 1	How.	cut Seve

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

antea group

Client

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit: 10:30 - 400

08.M Tech(s): 1, Angel 4 G. Crowe

	Ι	COMPUTER	}	1			WELLIS	UMP HEAD		System vs.	Dataio	naaer	Enclo	sure
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Total	izer	GPM	PSI 1	WTa	GW Elevation	Actual GW Elevation	Downl	oaded	Locked Seal	d/We
SUMP A	211-212.5	21223	14.0	2052	473	13.8	20	27.45	212.44	0.21	6	No	ves)	No
SUMP B	211.5-214	212,12	91.2	4905	3723	88,5		25,12		0.85	Yes) No	(Yes)	N
EPS WET WELL			105	Net: 787. Gross: 106	3061 7883				 -				(N
MW-OB30								7.42	218,77		(es)	No	(es	N
MW-OB33	0.430	V. V						6.71	817.32		Y S	No	Yes)	N
MW-OB34		. A 1 - 1 - 1						10.41	213.17		Yes)	No	(Fig.)	N
MW-OB25	1111	1000		Visit Visite				6.58	231.07	V. V. - V. V.	(es)	No	Yes	N
AW-A14		100 100 100 100 100 100 100 100 100 100						16.76	200-06		Ves	No	(Yes/	N
AW-B4	1,71,2		SANE SANE				- 1	24.51	213.74		6	No	(es)	١
AW-C11	137	Free British						41.28	197.17	N. 11.	Yes	No	(Yes)	١
MH-4	100	11/4/1999	11 A - 11 A					18.51	220 -35		(19)	No	Yes	١
EW-B5	12.	And the second				\$15 4 155		28.72	207.03	200-000	Yes	No	Yes	٨
				1 0 0	-4	STAFF GAUG	GES Cleaned?	Т		Comments				
ID RIVER		Level		Gauge Ob Yes	No.	Yes	(No 3							
		5.1		Yes	(No)	Yes	(No)							
QUARRY		<u>v.</u> Å			()	SITE INSPEC	TION							
											Arı	rival	Depa	ırtu
1	All Gates	and buildings	secured an	d locked? (if no a	ınd there is ev	idence of tresp	assing, notify	PM)			Yes	No	Yes	1
2	All access roads clear? (If no, state details in notes section)										(Yes	No	(1)	1
3	Site utilitie	Site utilities operation? (if no, state details in notes section)										No	(Yes)	
4	Standing	water in bedr	ock extraction	on well vaults? (I	f yes, state wh	ich vaults in no	ites section)				Yes	(No	Yes	C
5	Any visibi	e site erosior	ı? (if yes, sta	ite details in note	es section)						Yes Yes	(NO	1	اِ
6	Any hous	y housekeeping issues? (If yes, state details in notes section)											Yes	C
7	Any storm	ıwater basin	area disturb	ances? (If yes, si	ate details in r	notes section)					Yes	(No)	Yes	(
8	Standing	water in Efflu	ent Pump St	ation control roo	m?						Yes	(No.	Yes	0

EsiSump Pourp is still pumping under out of Pump Station Dusement

Slight differences at Sump A & B setween computer apported GW & actuals

reported GW propolohy due to difference in time bedween. Computer readings

collected at no 11:15. Dump A gauged at 13:24. Sump B gauged at 15:06.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY



		COMPUTER					WELLIS	UMP HEAD		System vs.	Datalo	ogger	Enclo	
WELLID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Totali	izer	GPM	PSI1	28. TY 6	GW Elevation	Actual GW Elevation	7		Locked Seale	ed?
SUMP A	211-212.5	111 87	0.6	2156	<i>5</i> 0,4	14.3	O _	23	J. S. ()	·	Yes	No C	Yes	No
SUMPB	211.5-214	213 21	0.0	493	50878	0.0		23,79	212.60	2.40.4.21.41	Yes	No	Yes	N
EPS WET WELL		703	0.0	Net: 194:	7207								Yes	N
MW-OB30				- 11.0				8.26	217.93		Yes	No	(AoS	N
MW-OB33						45200		6.99	217,04	1 1 to 1 to 1 to 1	Yok	No	Ŷes	N
MW-OB34				,				10.86	217,69	16-18-3	Yes	No	Yes	N
MW-OB25	1,234	11.54	3.1 a. . 1 a			10.4		7.23	231,00	-	Yes	No	Yes	_ \
AW-A14 -		1	- N	jalanaka.				16.83	219,99	-	Yes	No	(Yes)	N
AW-B4			3742.33					25.0L	213.21		0	No	Yes	١
AW-C11			-					41,73	196,72	-	Yes	No		١
MH-4	-						- 1	18.56	33030	••	Yes	No	Yes	
EW-B5	1,2-11	10521	100200				1002	29.21	206. BU		Ves	No	Yes) 1
	<u> </u>	. !	J	· · · · · · · · · · · · · · · · · · ·		STAFF GAUG	GES Cleaned?			Comments				_
ID		Level			structed?	Yes	(No)							
RIVER		4,9	4	Yes	No	1 ES //								
QUARRY		<u> </u>		Yes	L_(N°)_	SITE INSPEC	+							
		* '				Oli I I I I I I I I I I I I I I I I I I I						rival	Бера	T
1	All Gates	and building	s secured an	i locked? (if no a	and there is ev	idence of tresp	assing, notify	PM)			Yes		(Yes)	
2				details in notes								No	Yes Yes	H
3	Site utiliti	es operation	? (if no, state	details in notes	section)						Yes	1	— 	
4				on well vaults? (i		ilch vaults in ne	otes section)				Yes	-	-	5
5		Any visible site erosion? (if yes, state details in notes section)										1		1
6				state details in n		.4				17	Yes Yes	$+ \succ$		┵
7	1			ances? (if yes, s		notes section)					Yes	1 (10) Yes	7
8	l .			ation control roc ation basement		<u></u>					7	No	(Yas	1

4/14: HH Level Sump A alarm tripe 14:09
- Water still in basement, below pump float level
AW-B4: Lage ant nest in well case

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Ashland, Inc. Client:

Site Location: 89 Lower Warren Street, Queensbury, NY Date of visit:

Time of visit: 13:303M - 5
ORM Tech(s): Katie Angel

	Γ	COMPUTER					WELL/SU	MP HEAD		System vs.	Datalo	ager	Enclos	sure
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	lizer	GPM	PSI 1	DTW	GW Elevation	Actual GW Elevation	Downlo	aded	Locked Seale	ed?
SUMP A	211-212.5	211.44	73.8	22421	17	12,9	10	27.78	312.11	0,67	Yes	No	(es)	No
SUMP B	I	213.57	86.7		18899	12.9	V	24,56	211.83	_ 1074_	(A)	No	(res)	N
PS WET		-	~	Net: (02/0 C	753			-	-				(Yes)	No
	500000000		Visita in in	- //		. i		8.11	218,08		Yes	No	(Yes)	N
W-0B30			100 m					6.89	217.14		Yes	No	(E)	N
AW-OB33 AW-OB34								9,93	213.65		Yes	No	Yes	١
			\\					7.41	231.04		(Test)	No	Ves	1
WW-OB25 AW-A14								16.73	220.09		(Yes)	No	@	1
AW-B4			**			10.00		24.17	214.08	VER TEN	(es)	No	(Yes)	١
AW-C11	30 ± 3 5 0					N. 6. (#-16.5)		41.07	197.38		(Fig.)	No		Ľ
MH-4	VA 22 1-40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						18.50	220.36		Yes	No	(Yes)	_'
EW-B5							1566 <mark>-</mark> 1666	28.63	201.12	38.84.8.65	(Yes)	No	(Yes)	'
LW-Do			L			STAFF GAUC		T		Comments				
ID		Level			bstructed?	Yes	leaned?							
RIVER		4.5	2	Yes	(No)	Yes (No.)								
QUARRY		. /		Yes	CNO	SITE INSPEC		<u> </u>						
											(Ves	rival No	Pes	A F E
1					and there is evi	dence of tresp	assing, notify	PM)			(Yes)	No	(Yes)	╁
2	1			detalls in note							(VE)	No	(As)	T
3				detalls in notes							Yes	(No	-	1
4	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)										Yes	(Ng	Yes	(
5		Any visible site erosion? (if yes, state details in notes section)										(Na		(
6					notes section)						Yes Yes	(No		(
7					state details In r	iotes section)				<u></u> ,	Yes	(No)	 	(
8	Chanding	ling water In Effluent Pump Station control room?												

tes:
Sump H & B computer elevations collected @ 1316
Sump A extel elevation collected @ 1328
Sump A extel elevation collected @ 1540
Sump B well elevation collected @ 1540

Sump pump in Pump Status basened is running

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit:

O&M Tech(s): Game Cont

	T	COMPUTER	2	<u> </u>		1	WELL/S	UMP HEAD			T			
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Total	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Downl	ogger oaded ?		
SUMP A	211-212.5	211.91	15.0	N.C.	2%	145	10	27.46	212.43	-03	(Yes)	No C	200	(N)
SUMP B	211.5-214	21300	0.0	49980	7570	0.0	Samuel Prop.	24.95	211.44	0,00	6	No	@	(AD)
EPS WET WELL			0.0	Not: 100	47 49 17696							- 1	Yes	No
MW-OB30	11 - 11 1							8.97	217.22		Yes	No	Yes	No
MW-OB33		N. E. S.			48.50			7.2	216.82		(Veg)	No	Yes	No
MW-OB34								11.75	211.83		(Yes)	No	Yes	No
MW-OB25	100 <u>100 100 100 100 100 100 100 100 100</u>	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (44,4		7.22	231.23		(2)	No	Yes	No
AW-A14		100 to 10		2000				16.82	220.00		(Yes/	No	Yes	No
AW-B4	1494							26.12	212.15		(09)	No	Yes	No
AW-C11							11 - 11	41.09	197.36			No	Yes	No
MH-4	14.2.1		0.00	No.				18, 54	22631		C/s	No	Yes	No
EW-B5							\$190 1 185	29.70	20(.05		tos	No	(Page	No
	.l	.1		.1.		STAFF GAU				Comments				
(D)		Level		Gauge O	bstructed?		Cleaned?	1-	a 271	Comments				
RIVER	1 4	<u>.30, </u>		Yes	B	Yes	(No)	1 900	0d cond4	181				
QUARRY]	.50`		Yes	69	Yes	(No)	0.600	1 corditil	<u>}</u>				
		.,-0				SITE INSPEC	TION				Arı	rival	Depa	rture
	Atl Catan	and hulldings	- cocurad an	d locked2 ilf no	and there is evi	idence of tresp	assing, notify	PM)			Yes	(No)	Yes -	No
2	_ _						3,				(VES	No	(Yes)	No
3		All access roads clear? (If no, state details in notes section) Site utilities operation? (if no, state details in notes section)											Yes	No
4	1	•			(if yes, state wh	ich vaults in ne	otes section)				Yes	(N)	Yes	No
5	.1			ite details in no							Yes	(NB)	Yes	(No
6				state details in							Yes	(No	Yes	(%)
7					state detalls in n	notes section)					Yes	(NP)	Yes	(Vo.
8				ation control ro							Yes	No	(E)	No
9	Standing	water in Efflu	iest Primo St	ation basement	t area?		·····				(es)	No	Yes	No

Notes:

HB: Probably due to very heavy Rains Last night

Al Lightsout in EPS Wet Well room

HI Gates near hailroad trucks open (crossing-milroad tracks) upon arrival

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY



······································				Control Control							···			
							WELL/SI	UMP HEAD						
WELLID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Datale Downi	oaded	Enclo Locked Seal	d/Well
SUMP A	211-212.5	ટાજ રુ	0	2385	867.6	0		27.08	212.81	0.42 *	3	No	(69)	No
SUMP B	211.5-214	213.29	96.3	5026	4937	0	-	24.16	213.81	1.06	Yes	No	(es)	No
EPS WET WELL			103.5	Net: 1483 Gross: 124	3076 156 <i>02</i> 8				e militar		•		(**)	No
MW-OB30			V 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.90	218,29		(Fee)	No '	Yes	No
MW-OB33		1004				-		6,80	217.23		(Yeg)	No	Yes	No.
MW-OB34								9.23	214.35		(es)	No	(Yes	No
MW-OB25		11.4				1441		6.72	231.73		Y 65)	No	(Yes)	No
AW-A14	11.1-							16.61	220.21		(es)	No	(Yes)	No
AW-B4	V _i v. ·				- 1881 1884			23.68	214.57	(- 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1	(Yes)	No	(Yes)	No No
AW-C11	50.00							40.28	198017	\$4 . 43.	Yes	No	(es)	No
MH-4	174_ 174	778	74.44					18.41	220,45		(Yeg)	No	Yes	No
EW-B5	3.1 <u></u> 3.		- 11 - 1 11 11	SHEET HAND			Marie L. 1949	28.22	207.53	1 3 3 11 11 11 11 11 11 11 11 11 11 11 1	(Yes)	No	Yes	No
						STAFF GAUG		,		Comments				
1D		Level			bstructed?	Yes	Cleaned?		1					
RIVER		2/30		Yes	No	Yes	(No)	Liver	nort pi	3n				
QUARRY	(<u>x.25.</u>		Yes		SITE INSPEC								
												ival		rture
1	All Gates	and bulldings	secured and	l locked? (if no	and there is evi	dence of tresp	assing, notify	PM)			Yes	No	(es)	No
2	All access	roads clear?	(if no, state	details in notes	section)						Yes	No	Ves C	No
3	1	-		detalls in notes							(Yes)	No	Yes	No
4					if yes, state wh	ich vaults in no	ites section)				Yes	(M)	Yes	®
6	1			te detalis in not							Yes	(B)	Yes	(B)
6	1			state details in r							Yes	(E)	Yes	No No
7					state detalls in n	otes section)					Yes	6	Yes	(NO)
8				ation control ro		- ···					Yes	No	Yes	No
9	Standing	water in Efflu	ent Pump St	ation basement						·····	(es)	NO	العال	INO
Notes:					-nc 1		م) ایت	la 5 Kova	DOUM - PA	rat we	Q			

Still souved inches of water in EPS basement, but below sump pump float level

Collected pump * Tury from Aztech onsite to reset transducer to and weekly transducer

Quarry area lock virusty, hard to open ticlese, should be replaced soon Sump A well set point reset to 209,67 - 211,22

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

89 Lower Warren Street, Queensbury, NY



	T	COMPUTER	₹				WELL/S	UMP HEAD	,	System vs.	Datalo	ogger	Enclo	sure
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Total	izer	GPM	PSI 1	DTW	GW Elevation	Actual GW Elevation		oaded	Locke	d/Well led?
SUMP A	211-212.5	2.1034	0.0.	246270	3.8	14,4	6.0	27,92	211.470	0.00	(res)	No	Yes	(No)
UMP B	211.5-214	21203	0.00	505711	3[94.9		23.55	212.84	<u> </u>	(Yes)	No (Yes	No
PS WET WELL			85.1	Not: 19	3334 34385						-	- (Yes	No
W-OB30	10.2			1 0				849	217,70	\\ - .\\\	(Y)	No	Yes	No
AW-OB33	No. 2 (1)		11.2					7.00	217.03		(Yes)	No	Yes	No
MW-OB34		1,4						10.21	213,37	-	(A)	No	(Yes)	No
NW-OB25			3.00 - 10.00			N. 19-1-19-19-19-19-19-19-19-19-19-19-19-19	114	7, 35	33140			No/	nYes	(No)
AW-A14			-					16.17	22000	i i di a di di Tananana	(es)	(4)	Yes ((N)
AW-B4			14(4)				- 100 in the 100 in th	124.5	215,15		(Yes)	*	Yes	No
AW-C11		100-100					-	40.49	19 196		Yes X	(N)	Yes	(No
MH-4	\$ 1 K						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18.55	320:31	ा जिल्लाका सम्बद्धाः स्थाप	Yes	No (Yes)	No No
EW-B5	-		-			STAFF GAU	GES	128.60	20415		(Yes)	No	ٿ	NO
1D		Level		Gauge Ob	structed?		Cleaned?		0 .	Comments				
RIVER	5	.8		Yes	No	Yes	C(19)	<u>,</u> 600		ition	g in	Λ.		
QUARRY									e in ge	CO CO.	nolut	VOV		
,						SITETNSPEC		<i>q</i>	θ		Arı	ival		arture
1	1			d locked? (if no a		idence of tresp	assing, notify	PM)				No	(105) (201)	No No
2				details in notes							Yes	No No	(Yes	No
3	1	•	-	detalls in notes : on well vaults? (I		ich vaulte in no	ites section1				Yes) No	Yes	No
6				te details in note							Yes	(No)	Yes	(No
6				state details in n							Yes	No	Yes	(No
7	1			ances? (if yes, st		notes section)					Yes	(No)	Yes	(Ńo
8	Standing	water in Efflu	ent Pump St	ation control roo	m?						Yes	(Ng)	Yes	(No
9	Standing v	water in Efflu	ent Pump St	ation basement	area?						Yes	No	Yes	No
1/12/1 1/12/1	7 14	:58 ; ⁴ :58 :4	n →: 6 →	SUMPB now (5/ Sump P	Duta 15/17) 1 Duta	Radio Radio	fullur failur	c Aleuran e Aleura	n-syst n-syst	en is emisw	orki worl	۲.٬۸۷ مر	T,Ve T,Ve	`nC _ ∩∞
y ' "y '	, , , ,)	1	•										
-Moa	olhy t lion i	ly Car	na i Fàrnily	, by E	PS wet	twell							5.	
fq; a		~	/	- 1			N.		41	20		•	ì	11

AW-BH has large onts nest EW-A13 A12, A7 A3 water pumper out of enclosures, EV-A2 circult not working 3-41:0 OF Had remains in Vamily

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

O&M Tech(s): Kutic Angl

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit:

5/23/17 900cm - 62m

ver warren Street, Queensbuly, MT

anteagroup

		<i>U</i>			2000000	***************************************								
	ı	COMPUTER	1	l			WELL/SI	JMP HEAD		04	Datal		Enclo	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	lizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Datale Downl	oaded	Locked Seal	d/Well
SUMP A	244 242.5	211 27	0	25399	731	14.0	10	29.39	210.50	0,79	6	No	(PS)	No
SUMP B	211.5-214	21233	91.4	5089	9821	91,9	~	24.49	211.90	0.43	(Ves)	No	(es	No
EPS WET WELL			84.4	Net: 2379 Gross: 1334	174 10994						-	•	@	No
MW-OB30	15.4-16.	NEWS.	14.55					9.98	था० था	= =	(m)	No		No
MW-OB33	\$ \							7,46	214.57	101 1- 300	E	No	(Yes	No
MW-OB34	13.5 4 3.15					1983 - 1983		13.41	210.17	•	@	No	®	No
MW-OB25						-			230.77	100-100	(PES)	No	(Yes)	No
AW-A14	1000年100	N ()	-				14 E A E A	16.81	230.0		(69)	No	(Yes)	No
AW-B4						Artic Little	NAME VAL	28.06	210.19	N 1845	(°es)	No	(Yes)	No
AW-C11							#11 11 11	42.13	196.32	1 1 1	(Yes)	No	(Yes)	No
мн-4	100 <u>4</u>			Deplet.		NN-ISS		18.48	220.38		Yes	No	(Yes)	No
EW-B5	100 110	A.C. 135	443					31.04	20171	1942 (1933)	(Yes)	No	(Yes)	No
				Causa Ot	structed?	STAFF GAUG	3ES Cleaned?	1		Comments				
ID RIVER		2 o l		Yes	(No)	Yes	(No)	Gruge n	0. are getti	ne chall	'm 2	, cor	·se.	
QUARRY		0.5		Yes	(No)	Yes	No)			U	
	<u> </u>	N O				SITE INSPEC	TION				3 0	ival	Dens	arture
,							\	DAIL)			(FeS	No	Yes.	No
1	1			i locked? (if no details in notes		dence of tresp	assing, nonly				(Yes)	No	(Yes)	No
3				details in notes							(AB)	No	(Yes)	No
4				n well vaults? (i		ich vaults in no	tes section)				(Ves)	No	Yes	(NB)
5				te details in not							Yes	(No	Yes	(No)
6				state details in n							Yes	(No	Yes	(N)
7	Any storm	water basin	area disturba	ances? (if yes, s	tate details in n	otes section)					Yes	(M)	Yes	(No.)
8	Standing	water in Efflu	ent Pump St	ation control roc	om?						Yes	(No)	Yes	(18)
9	Standing	water in Efflu	ent Pump St	ation basement	area?						15	No	Yes	No

Actech replacing sump in EPS basements most water pumped out still NIE on west side of room, Aztech also working in Sump A to replace transducers sump A off for maintenance en 9.50 Aw-Alf water level having steady. Added Aw-Al3 to gauging list to make sure well isn't phygod king. When transducer in stalled in Sump A, with rood to start is set but will need to be rechecked after sit and acclumenty in well.

parmoved water from Ew-AZ, Ew-AB, Ew-AB, Ew-BZ, Ew-AP, Ew-AP/BB, Ew-AII, & and Ew-AII/BY

Alan shi it was stated and KA

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit: Time of visit: O&M Tech(s):

WELL/SUMP HEAD COMPUTER System vs. Datalogger Enclosure Well Reported Actual GW Downloaded Locked/Wel Totalizer WELL ID **GW Elevation** PSI 1 **GPM** GW Sealed? Setpoint Elevation Interval 210.950 Νo Yes Yes 211-212.5 SUMP A Yes No No 0.0 211.5-214 SUMP B **EPS WET** No WELL (Feg 216.72 No 9.47 No MW-OB30 _ -Yes ---No _ MW-OB33 سوا __ No -MW-OB34 (N) --MW-0B25 ... Yes ---... ... -AW-A14 _ Nο Yes -AW-B4 ... 6 Yes No _ 1 . _ AW-C11 ... No JQO,UI No MH-4 _ -----No -Νo EW-B5 STAFF GAUGES Comments Gauge Obstructed? Gauge Cleaned? Leve ID Νo Yes Νo Yes RIVER No. Yes OHARRY Yes SITE INSPECTION Arrival Departure All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) Yes_ Νo Yes No 1 (Yes All access roads clear? (if no, state details in notes section) 2 No Site utilities operation? (If no, state details in notes section) 3 (Yes No Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) 4 Any visible site erosion? (if yes, state details in notes section) 5 Yes Any housekeeping issues? (if yes, state details in notes section) 6 No Yes Any stormwater basin area disturbances? (If yes, state details in notes section) 7 Yes No Standing water in Effluent Pump Station control room? No Standing water in Effluent Pump Station basement area?

-grass reads to be ent

1430 - Sump A 28.78 211.110 211.14 Lord Sumps A+B
Sump B 22.51 213.88 213.96 .08

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

O&M Tech(s):



	T	COMPUTER	₹			1	WELL/S	UMP HEAD		System vs.	Datal	ogger	Encl	sure
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	lizer	GPM	PSI 1	DTW	GW Elevation	Actual GW Elevation	Downl	oaded ?	Locke Seai	d/Well
SUMP A	211-212.5	210.16	0.0	767577	6.8	0.0	5	29.80	210.09	.02	(%)	No	Yes	No
SUMP B	211.5-214	213.36	0.0	515573	133	0.0		23,12	213.27	_,00	Ye)	No	(P)	No
EPS WET WELL			79.0	Net: O.O									(A)	No
MW-OB30			10.4			100 Aug 100 Au		9.63	216.56		Ye	No	(Yes)	No
MW-OB33	## - ##	, A. J A. G.					414 <u>-</u> 11	7.38	216.65	13 (A #* 1)	(Yes)	No	(Ces)	No
MW-OB34			111 11 11 11 11 11 11 11 11 11 11 11 11					12.89	210.69		(Ve)	No	(Yes)	No
MW-OB25		NEEDS						7.10	231.35	-	(P)	No	Yes	(No
AW-A14	1,111,111		**. .					16.76	220.06		(Pe)	No	Yes	No
AW-B4	100							27:30	210,93	######################################	(Ves)	No	Yes	Wö
AW-C11			142					4.72	196,73	3 (1) 1	(Yi)	No	Yes	(No
MH-4			144-164			30.44		18.44	22042	N. S	(Veg)	No	(Yes)	No
EW-B5	-		ni propinsi ni pi pare					30,47	12052x	133 1, 133	(Pes	No	(Yes)	No
ID	T	Level		Gauge Ob	structed?	STAFF GAU	GES Cleaned?	1		Comments				
RIVER	1	20	***************************************	Yes	(No)	Yes				-				
QUARRY	7	20		Yes	(No)	Yes	(No)							
****		70			1	SITE INSPEC	TION							
	7			l locked? (if no	and there is ou	Idanas of traen	accing notify	DM)			(Yes)	rival No	(Yes)	No
2				details in notes		ruente or treap	assing, noury				(Yes)	No	(Yes)	No
3											(ves)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section) Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)										(Yes	No	Yes	No
5	Any visible site erosion? (if yes, state details in notes section)											®	Yes	(No
6				state details in n							Yes	\Re	Yes	(No
7	Any storm	water basin a	area disturba	inces? (if yes, s	late details in r	otes section)					Yes	(AR)	Yes	N.
8	Standing v	vater in Efflu	ent Pump Sta	ation control roc	m?						Yes	(N ₀)	Yes	No
9	Standings	vater in Efflu	ent Pump Sta	ation basement	area?						(Yes)	(Mg/c	(Yes)	(No

Notes:
Ofterry is not sure what EPB well tot. rending Dandon he will
lookinto
#9: Minimal water in busement

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

antea group

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit: O&M Techisi:

WELL ID	Well						***************************************	JMP HEAD		System vs.	l Datai	ogger	i Facia	sure
	Setpoint/ Interval	Reported GW Elevation	GPM	Tota	alizer	GPM	PSI 1	DTW	GW Elevation	Actual GW Elevation	Down	oaded ?	Locke	
SUMP A	211-212.5	204.87	13.	2738	016.1	0.0	7	29.47	210,420	204	(3)	No	(Yes)	No
SUMP B	211.5-214	21264	10.D	5/83	7153		مسكر	23.74	212.65	.04	(Yes	No	(Ye's)	N
PS WET WELL			421	Net: 3 g & Gross: 3 g]	480			•					(Ves)	N
W-0B30	\\\\ - \\\			<u> </u>			100	9.45	216.74	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Yes)	No	(48)	N
AW-OB33	4,454	AUGE (SE)		Miller				735	216 15		Yes	No	res	Ŋ
/W-OB34						- 14. [±1.14]		12.57	21.0	144 <u>-1</u> 5/3	60	No	(Yes)	N
/W-OB25		N-181			. 41,41,41			7.39	231.06		(Yes)	No	Yes	(k
AW-A14				A SERVER				16.75	328,07	44 . 140	(F)	No	Yes	Q
AW-B4	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	***	VALE :					26.80	211,39	1777 -1 177	(es)	No	Yes	(
AW-C11							151 2 164	41.6	196.85	\ -	(Yes)	No	Yes	4
MH-4	F=135							18.45	220, 41	<u>-</u>	Yes	No	Yes	4
EW-B5	1 1 1	19.4190	7,51 2 ,511		<u>Pinigair</u>	1000		30:31	<u> 1005, 44</u>	13.412	(Ye)	No	Yes	<u> </u>
JP.	1****	Level		Gauge O	bstructed?	STAFF GAUG	SES Cleaned <u>? </u>	1		Comments				
ID RIVER		9 C		Yes	No	Yes	(Nó)							
QUARRY	_^	3.8°		(Yes)	N ₀	Yes	No	Post	genm	00	ch	ck		
		<u> </u>			<u> </u>	SITE INSPEC	TION	1 10.0	y L ·		- 0	~ /		_
												rival	Depa	
1					and there is evi	dence of trespa	nssing, notify i	PM)			Yes	No No		}
2				details in notes							¥)			<u> </u>
3	I .			fetalls in notes							\\Z	No	(Yes)	_
4	-			· · · · · · · · · · · · · · · · · · ·	if yes, state wh	ich vaults in no	tes section)				Yes	No	Yes	7
5				te details in not	·····						Yes	(Na	Yes	Ç
6	<u> </u>			tate details in r							Yes	No	Yes	(1
7					tate details in n	otes section)					Yes	/No.	Yes	K
8				tion control ro								17x	 	ξ,
9 lest				tion basement	il o ap						Yes	(N)	Yes	Ľ

Staff for Quartly Sampling event

- Water gatorade

- Stakes for wells

- ICE

Alarm: 6/6/17 122639 + Data Radio Fail at SUMPA

26 377 Data Radio Fail @ Sump B

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location

89 Lower Warren Street, Queensbury, NY

Date of visit:

6/19 - 6/293

Time of visit:

O&M Tech(s): Guret Cowe



		COMPUTER	}				WELL/S	UMP HEAD		System vs.	Dataid		Encl	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tot	alizer	GPM	PSI 1	DTW	GW Elevation	Actual GW Elevation	Down	oaded	Locke	
SUMP A	211-212.5	220,13	ill. lan	2807	660.5	14.1	5	11.57	2225%	~10	(es)	No	(Ve)	No
SUMP B	211.5-214	114.83	960	15216	1336	96.0		17,00	214.39	0 مه	Yes	No	Yes	No
EPS WET WELL	-		82.4	Net: 1438 Gross: ケス1	310 420				,					No
MW-OB30	# 1 53	48.4			y viewski		-	9.26	216.93		(Yes	No.	Ŷèš	No
MW-OB33								6.34	217,69		(V)	No	%	No
MW-OB34	\$17.4 4 17.44	1441	11.5		- 13. (1)			13.5	210.08	NEW!	(Yes)	No	(Yes)	No
MW-0825								7.5	230,95		8	No	Yes	60
AW-A14		102	- 11 <u>- 1</u> / 11	16,25	220.57		6	No	Yes	(ÑS				
AW-B4	-	** =			28.11	210,14		Kes)	No	Yes	No			
AW-C11	N2_100		\$X\$\$X					42.35	196.10	N. G.	(Yes)	No	Yes	(M)
MH-4								17,87	221.05		6	No	(%)	No
EW-B5	V	414.				STAFF GAUC		30.66	205.09		Yes	No	Yes	No
						\sim								
D		Level		Gauge O	bstructed?		leaned?	 	1.	Comments		1. 4.	* • •	<u>C</u>
RIVER	<u> </u>	40		Yes	No	Yes	(No)	Havy		buildu				gi
QUARRY	<u> </u>	6O		Yes	(No)	Yes SITE INSPEC		1 Scum	ON DO	Hon d	st g	ung	R_	U
						SHE INSEC	1014				Acri	val	Depa	rture
1	All Gates a	ıd buildings	secured and	locked? (If no	and there is evi	dence of trespa	ssing, notify f	PM)	***************************************		(res)	No	Yes	(No
2	All access	roads clear?	(if no, state	detalls in notes	section)						жkś	No	(P)	No
3	Site utilities	operation?	(if no, state o	details in notes	section)						Yes	(No)	Yes	No
4	Standing w	ater in bedro	ck extraction	n well vaults? (if yes, state whi	ch vaults in no	es section)				(Ve)	No	(VI)	No
5	Any visible	site erosion	? (if yes, stat	e details in not	ies section)						Yes	(No.)	Yes	<u>@</u>
6	Any housel	ceeping issu	es? (if yes, s	tate details in r	notes section)						Yes	(NO)	Yes	N ₀
7	Any stormy	vater basin a	rea disturba	nces? (if yes, s	itate details in n	otes section)					Yes		Yes	No
8	Standing w	ater in Efflue	nt Pump Sta	tion control ro	om?	****					Yes	(№)	Yes	Nó
9	Standing w	ater in Efflue	nt Pump Sta	tion basement	area?						Yes	(No)	Yes	No

HI + terry and Katic on sile #3 -> System down

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET



Ashland, Inc.

89 Lower Warren Street, Queensbury, NY

Date of visit:

O&M Tech(s): (26/7)

WELL/SUMP HEAD COMPUTER System vs. Datalogger Actual GW Downloaded Locked/Well Reported Totalizer WELL ID GW Flevation GPM **PSI 1** ntw Setpoint/ Elevation Sealed? Elevation , () Interval No 285 70785 0.0 210.13 No SUMP A 211-212.5 Yes Nο No 0,0 24.67 SUMP B EPS WET WELL. No MW-OB30 ___ MW-OB33 MW-OB34 . . . Ξ, -MW-OB25 _ AW-A14 _ _ No Yes AW-B4 (No 1 Yes AW-C11 --- $\gamma_{\rm es}$ No DO 33 MH-4 EW-B5 STAFF GAUGES Gauge Cleaned? Gauge Obstructed Level ID No No Yes Yes RIVER No QUARRY SITE INSPECTI Departure No All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) Νo All access roads clear? (if no, state details in notes section) 2 Site utilities operation? (if no, state details in notes section) 3 No Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) Any visible site erosion? (If yes, state details in notes section) 5 Any housekeeping issues? (if yes, state details in notes section) 6 Yes Yes Any stormwater basin area disturbances? (if yes, state details in notes section) Yes Standing water in Effluent Pump Station control room? Hig Small amount of moistne canound sump, small amount of watering ump Alarms @ SNM PA+ B@ 12:22 on 6/23/17 HHLEVELS

Sump A 210.21 154: 210.62 2934+210.55 .07

Sump B 213.52 1518213.61 22.78 +213.61 .00

444: due to afternoon thunderstorms unable to remove water From extraction wells

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit:

		COMPUTER					WELL/SU	JMP HEAD		System vs.	Dotal	ogger	Enclo	SUP
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	ılizer	GPM	PSI 1	рту	GW Elevation	Actual GW Elevation		oaded	Locke Seal	d/We
SUMP A	211-212.5	21544	13.8	29399	0 J	140	7	2446	215,43	.00	(<u>)</u>	No	(A)	N
SUMP B	211.5-214	11260	435	52721	1774	0,0	<u> </u>	24,25	212,14	007	(Yes)	No	(B)	N
EPS WET WELL	7	75 / 75 / 75 / 75 / 75 / 75 / 75 / 75 /	کړی	Net: 1721 Gross: 1578	30 1160						4		Yes	, (
MW-OB30	1200	14 1 1 1	441				100	7,19	219.00		Yes	No	Yes	N
MW-OB33	10.00							6.67	217,36	-		No	٧	N
MW-OB34	15,22	VIII_10	V 114 15					10,95	212.63		(Fe 5)	No	(es	۱ (
MW-OB25		-				- 1		6.52	23193	<u>.</u>	8	Nο	Yes	9
AW-A14	14-11		100				Wish N. V.	1682	<u> </u>		@	No	Yes	6
AW-B4	-	144,13			- 33 33			25.17	213.09		(Pes)	No	Yes	1
AW-C11	No.	1112	77-19	SAN SAN SAN		10 Sept 10 Sep		40.55	197.87			No	Yes	Ċ
MH-4	142	••				494,334		18.57	230,34	3112. 313	Yes	No	(Yes)	ì
EW-B5	102,143	1.12		TENEVEN.		14213	1994-1994	28.95	206,90	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Yès)	No	Yes	1
	·			T		STAFF GAUG		1		Comments				
RIVER		Level		Yes	bstructed?	Yes	(io)	a first	e cla					
QUARRY		50		Yes	(40)	Yes	(No)	(III)	2 clean					_
GOZINI	<u>ئ</u>	<u> </u>		l		SITE INSPECT	TION	yang	<u> </u>	Δ				
								-				ival	Depa	
1	All Gates a	nd buildings	secured and	l locked? (if no	and there is evi	dence of trespa	ssing, notify f	PM)			Yes	No	Yes	
2	All access	roads clear?	(if no, state	details in notes	section)						(es)	No	(Yes)	ì
3	l		-	details in notes							(Yes)	No	Yes	؛ د
4	Standing v	vater in bedro	ck extractio	n well vaults? (if yes, state whi	ich vaults in no	tes section)		w		(Ýe)	No	(Yes)	
5	Any visible	site erosion	7 (if yes, sta	te details in not	es section)						Yes	(No)	Yes	S
6				tate details in r							Yes		Yes	
7	Any storm	water basin a	rea disturba	nces? (if yes, s	tate details in n	otes section)					Yes	(NO)	Yes	(
8	Standing v	vater in Efflue	nt Pump Sta	ation control re-	om?						(Ye)	No	(B)	

Notes: Heavy Mains Lately #8: heavy Mains Lately #9: Likely due to heavy mins, very little water Alarn:
7/1/17 1802 7 AL lower outage@ pump hous
7/1/17 20:48 7 HH level SumpA

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client:

Ashland, Inc.

Site Location:

89 Lower Warren Street, Queensbury, NY

Date of visit: Time of visit:

O&M Tech(s):

SUMP B		T	COMPUTE	R		ſ		WELL/S	UMP HEAD	*****					
SUMP B 211.8-214 211.81	WELL ID	Setpoint/	Reported GW Elevation	13.7			GPM	PSI 1	DTW	GW Elevation	Actual GW	Down	loaded	Locke	d/Wel
SUMP B 211.5214 211.87	SUMP A	211-212.5	210,34	(E)	1657	FF)	13.5	5	2960	210.29	0.05	(F)	No	(E)	No
New Part	SUMP B	211.5-214	211.81	0	5316	20683	Ġ	*	2454	211,85	:04	(ves)	No	(S)	No
MW-0B34		7.7		0	141	1970 1590				NA		-		(Yes)	No
MW-0B25	MW-OB30	350	V. 1999	N. I. 2. 150					:		10:41 <u>=</u> 13:43	XX	শেন্ত	(Yes)	No
MW-OB26	MW-OB33		35 - 55 X					a.a				Yes	FO	(Yes)	No
AW-A14	MW-OB34			\$ 15 mg								Yes	(No	(YES)	No
AW-C11	MW-OB26	14. A.	- 1. <u>- 1</u>					\$ 8 . -318			10.4	Yes	(هاک	(es)	No
AW-B4	AW-A14	# <u>1</u> 553	1000	Angligge Arteny Face Person	A CENTRAL						Vine below i Vine Vill	Yes	€	Yes	246)
MH-4	AW-B4		. A÷.	18.50 - 18.60				1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (Yes	(NO)	Yes	(NO
STAFF GAUGES ID Level Gauge Obstructed? Gauge Cleaned? Comments RIVER 3.80 Yes No Yes No Legadaken Starting to over grow gauge QUARRY Do 1 Yes No Yes No Legadaken Starting to over grow gauge SITE INSPECTION Arrival Departure 1 All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) 2 All access roads clear? (if no, state details in notes section) 3 Site utilities operation? (if no, state details in notes section) 4 Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) 5 Any visible site erosion? (if yes, state details in notes section) 6 Any housekeeping Issues? (if yes, state details in notes section) 7 Any stormwater basin area disturbances? (if yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? Yes No	AW-C11										500 <u>2</u> /355	Yes	(3)	Yes	No.
STAFF GAUGES ID Level Gauge Obstructed? Gauge Cleaned? Comments RIVER 3.80 Yes No Yes No Legacidate Starting to ever grow gauge QUARRY Do L Yes No Yes No Legacidate Starting to ever grow gauge SITE INSPECTION Arrival Departur 1 All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) 2 All access roads clear? (if no, state details in notes section) 3 Site utilities operation? (if no, state details in notes section) 4 Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) 5 Any visible site erosion? (if yes, state details in notes section) 6 Any housekeeping Issues? (if yes, state details in notes section) 7 Any stormwater basin area disturbances? (if yes, state details in notes section) 8 Standing water in Effluent Pump Staflon control room? Yes No	MH-4	1										Yes	™ ୭	(es)	No
RIVER 3.80 Yes No Arrival Departur Arrival Departur Arrival Departur Arrival Departur 1 All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) 2 All access roads clear? (if no, state details in notes section) 3 Site utilities operation? (if no, state details in notes section) 4 Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) 5 Any visible site erosion? (if yes, state details in notes section) 6 Any housekeeping Issues? (if yes, state details in notes section) 7 Any stormwater basin area disturbances? (if yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? Yes No Yes No	EW-B5	_						ana <mark>l</mark> iilia	29 27	206.48	váz <u>e</u> stá i	¥• \$)	No	(Yes	No
RIVER QUARRY QUA	10	· · · · · · · · · · · · · · · · · · ·	1 010		Causa Ol	natru ata da					0				
SITE INSPECTION Arrival Departur All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) All access roads clear? (if no, state details in notes section) Site utilities operation? (if no, state details in notes section) Any visible site erosion? (if yes, state details in notes section) Any visible site erosion? (if yes, state details in notes section) Any stormwater basin area disturbances? (if yes, state details in notes section) Standing water in Effluent Pump Station control room? Yes No			***************************************						16-1-1						
SITE INSPECTION Arrival Departur 1 All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) 2 All access roads clear? (if no, state details in notes section) 3 Site utilities operation? (if no, state details in notes section) 4 Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) 5 Any visible site erosion? (if yes, state details in notes section) 6 Any housekeeping Issues? (if yes, state details in notes section) 7 Any stormwater basin area disturbances? (if yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? Yes (No) Yes (No	QUARRY	-				i I	Yes	_>=<	vegeras	KN STAT	Kng To	<u> OYU</u>	9,00	3 90	يدرو
All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM) 2 All access roads clear? (if no, state details in notes section) 3 Site utilities operation? (if no, state details in notes section) 4 Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) 5 Any visible site erosion? (if yes, state details in notes section) 6 Any housekeeping Issues? (if yes, state details in notes section) 7 Any stormwater basin area disturbances? (if yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? Yes No Ye		1 0	• ¬				SITE INSPECT	ION							
All access roads clear? (if no, state details in notes section) Site utilities operation? (if no, state details in notes section) Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) Any visible site erosion? (if yes, state details in notes section) Any housekeeping Issues? (if yes, state details in notes section) Any stormwater basin area disturbances? (if yes, state details in notes section) Standing water in Effluent Pump Station control room?												Arri	ivai	Depa	rture
3 Site utilities operation? (if no, state details in notes section) 4 Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) 5 Any visible site erosion? (if yes, state details in notes section) 6 Any housekeeping issues? (if yes, state details in notes section) 7 Any stormwater basin area disturbances? (if yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? 9 Yes No	1	All Gates a	nd buildings	secured and	locked? (if no a	and there is evid	ence of trespa	ssing, notify F	PM)			(Tes)	No	O.	No
4 Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section) 5 Any visible site erosion? (If yes, state details in notes section) 6 Any housekeeping Issues? (If yes, state details in notes section) 7 Any stormwater basin area disturbances? (If yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? Yes No Y		All access	roads clear?	(if no, state	details in notes	section)						~	No		No
Any visible site erosion? (if yes, state details in notes section) Any housekeeping Issues? (if yes, state details in notes section) Any stormwater basin area disturbances? (if yes, state details in notes section) Standing water in Effluent Pump Station control room? Yes No Yes						•						(es)	No		No
Any housekeeping Issues? (If yes, state details in notes section) 7 Any stormwater basin area disturbances? (If yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? Yes No Yes								Not chiz	Kd				-No.		
7 Any stormwater basin area disturbances? (If yes, state details in notes section) 8 Standing water in Effluent Pump Station control room? Yes No Y		ļ	visible site erosion? (if yes, state details in notes section)											-	(No.
8 Standing water in Effluent Pump Station control room? Yes No Yes N	-	ļ					ina nantian'						><		No
							tes section)						\sim		(b)
	8 9	<u> </u>		· · · · · · · · · · · · · · · · · · ·								Yes Yes	(No.)	Yes	(N)

Notes:

- Due to techinal difficulties only able to down load data srom Sump A+B, and EW-B5

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashtand, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 07/18/2017
Time of visit: 500 # Crown, Note Suhadolnik O&M Tech(s): Gum



		COMPUTER					WELL/SI	JMP HEAD					l	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	То	talizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Datalo Downi	oaded	Locke	osure d/We led?
SUMP A	211-21	5210.75	13. 1	31630	55.5	0.0	5	28,73	211, 10	(2)	(6)	No ((Fg)	No
SUMP B	21/22/14	213.7	0.0	5350	1996	0.0		23,45	212,44	7/0	262	No	Yes	N
EPS WET WELL	J		0.0	Net: 1669 Gross() 7 (01420					1			Yes	N
MW-OB30								9.03	27.12		(V ₉₅)	No	Q	N
MW-0B33		- E			er.			7.29	26.14		(Yes)	No	(Visc)	N
MW-OB34	22.50				-		-	12.59	210.99	•••	(Yes)	Νo	(es)	N
MW-OB25	<u>-</u>				-			7,9	230.54	65 (62 <u>-</u> 20 65)		No	Yes	(4)
AW-A14	10011550503		**************************************			() () (T) () (C)	5	16.85	219,99		(es	No	Yes	(No
AW-B4		+	••					16.6	311.64	••	9	No	Yes	C
AW-C11			••					407	197.79		9	No	Yes	A
MH-4 EW-B6							5	18.50	1-20,36		Yes Yes	No No	(Yés)	No No
C44-D0	\$6507254640	- E - S	**		=	STAFF GAUG	ES	1.1/2.18	1205171	***************************************	رس	NO	رس	1,44
(D		Level		Gauge C	bstructed?	Gauge (leaned?			Comments				
RIVER	<u> </u>	46 84	-	Yes	(No)	Yes	(No)							
QUARRY	12.	60 Ft		Yes	No.	Yes SITE INSPECT	No							
						SHE MOFECI					Arri	vai	Depa	rture
1	System Teler	metry check	ed at Effluen	t Pump Statio	n Computer Scr	en. Everythin	g operational?				(vis)	No	(es	N
2	All Gates and	l buildings s	ecured and l	ocked? (if no	and there is evid	ience of trespa	ssing, notify F	PM)			(Veg)	No		No
3	All access ro	ads clear? (lf no, state d	etails in notes	section)						745	No	Yes	No
4	Site utilities	operation? (i	if no, state d	etails in notes	section)						(Yes)	No	(Yes)	No
6	Standing wa	ter in bedroo	k extraction	well vaults? (if yes, state while	ch vaults in not	es section)				(Yes	No	(Yes	No
6	Any visible s	ite erosion?	(if yes, state	details in not	es section)						Yes ((B)	Yes	No
7	Any houseke	eping issue	s? (if yes, sta	ite details in n	otes section)						(Yès)	No.	Yes	<u> </u>
8	 				tate details in no	ites section)					Yes	(Mg)	Yes	(No
9	<u> </u>			on control ro							Yes	18	Yes	N
10	Standing wat	ter in Effluer	it Pump Stat	ion basement	area?						Yes	(No)	Yes	(No

#7: Get more water/TAPe measur broke #9: heavy Storms small amount of water

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY Date of visit: 7/26

Time of visit: O&M Tech(s):

		COMPUTER		J			WELLIS	SUMP HEAD					T T	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	То	talizer	GPM	PSI 1	WTG	GW Elevation	System vs. Actual GW Elevation	Down	logger loaded ?	Locke	osure ed/Well ded?
SUMP A	11-225	210.32	13.8	3248	582-5	0.0	5	7009	209.64		(Vi)	No	(Yes)	No
SUMP B	211-214	213,54	91.8	3380	1275	1/3.9	<u> </u>	733,1	\$ 213,24		(7es)	No	(Feg	No
EPS WET WELL		-	0.0	Net: 42 Gross: 3/5	5 <i>870</i> 25760	·	-	-		1			6	No
WM-OB30					-			9,80	216.39		Yes	No	(Yes)	No
MW-OB33		a.	4					7 44	216.59		(ves)	No	*	No
MW-OB34					<u>.</u>	7.00	50.00	1336	210.22			No	(3)	No
MW-OB25	- 7	-			- 6 6 6 6		30 a. z. 31	7.97	230,48	3 3 - 3 2	(P)	No	Yes	(No)
AW-A14		•	a.u		2	_	-	16.88	219.94		(Ves)	No	Yes	(No
AW-B4		-					5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	210.98,	27.37	- - 7	A	No	Yes	P
AW-C11	-	-	-		-			41.02	197.43	—————————————————————————————————————	Yes	No	Yes	N
MH-4		•			•		-	18.55	१३० ३।		(Fes	No	(%)	No
EW-B5	2				36,21	205,54		P	No	(Yes)	No			
ID	<u> </u>	Level		Gauge	bstructed2	STAFF GAUG		1		Comments				
RIVER	77	· · ·		Yes	No	Yes	Cleaned2 No	1		Continents				
QUARRY	3.0	<u>`</u>		Yes	(No)	Yes	(No							
	a	<u>v J</u>		,,,,		SITE INSPECT								
										TTTT 1000		ival		rture
	System Tele	metry checke	d at Effluen	t Pump Station	Computer Scr	een. Everythin	g operational	?			(Yes)	No	(Page	No
2				· · · · · · · · · · · · · · · · · · ·	and there is evi	dence of trespa	issing, notify	PM) 			(A)	No	(Yes)	No
				etails in notes							(P)	No	(Ve)	No
				atails in notes	•						(Pas)	No	(Yes/	No
					f yes, state whi	ch vaults in no	tes section)					069	(es)	9
				details in note	· .						Yes	<u></u>	Yes	(No)
				ite details in n	····						Yes		Yes	(No.
				• • •	ate details in no	ites section)					Yes	(No)	Yes	No.
9	Standing wa	ter in Effluen	t Pump Stati	on control roo	m?						Yes	(MD)	Yes	N_0

7/26/17 telemetry time DTW CompElv. Actual Elv. dif, SumpB 1149 24.26 212.12 212.13 .01 SumpA 1152 29.70 210.26 210.19 .07

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Site Location: Bp Lower Warren Street, Queensbury, NY
Date of visit: 731/17 4 4/1/7
Time of visit: 830 c.m.
ORM Techts: 1/4-1/41/1/2009



O&M Tech(s):	CULTER	11 was				·	1						·	
	1,000					·.	1							
WELLID	Well Setpoint/ Interval	COMPUTER Reported GW Elevation	GPM	Total	lizer	GPM	WELL/St	JMP HEAD DTW	GW Elevation	System vs. Actual GW Elevation	Datate Down!	oaded	Enclo Locke Seal	d/Well
SUMP A	211-27.5	210.06	13.8	33059	329.3	ממ	5	29.16	210.73	206	Y	No	Yes	No
SUMP B		21339	70	54131	891	NO I		72 41	213,9\$,01	(Yés)	No	(A)	No
EPS WET	11/2/04	31721	0.0	Net: 7765	3240	-		a.			, (Yes	No
MW-OB30				/54	, 3≪C			10.25	२१५ वर्ष		(P)	No	(Yes)	No
MW-OB33								7.60	216.43	-		No	€	No
MW-OB34								14.21	209,37		(Yes	No	(Yes)	No
MW-OB25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.5		25, 25,	• :		••	844	23621		(V)	No	Yes	N
AW-A14			12.14				·	1697	219.85	-	Yès)	No	Yes	(NO)
AW-B4				-	- 1			28.58	201,67			No	Yes	(No.
AW-C11				-	-		-	41,98	196,27	••	(A)	No	Yes	(Nó)
MH-4			- 40 (14			-		18.61	220.25		Yes	No	Ŷœ	No
EW-B6		٠.		-	-			31.25	204.50	-	Yes	No	(Yes	No
	T		• ••••	Gauge Ob	estructod?	STAFF GAUG	ES Cleaned?	1	****	Comments			-	
ID RIVER		, 5		Yes	(No)	Yes	(No)							
QUARRY	1	,		Yes	(No	Yes	(No)					•		
	1 3	• [L		SITE INSPECT	ION				1 80	ival	T Don:	arture
	Γ			t D Ctatlan	Computer For	oon Eventhin	a operational	2	·		/Yes)	No	(Ves	No
1				nt Pump Station							(Yes)	No	Yes	No
2				locked? (if no a		metine of tresh	issing, noury				Yes	No	Yes	No.
3	-			ietalis in notes s							Yes	No	(Yes)	No
4	1			letails in notes s n well vaults? (if		ich vaults in no	tes section)				(Ves)	CHA	Yes	No
5				e details in note							Yes	No	Yes	(M)
6				tate details in no							Yes	(Ng)	Yes	(1)
7 8				nces? (if yes, sta		otes section)					Yes	(No	Yes	No
9				tion control roo							Yes	(No.)	Yes	
											Yes	MO	Yes	(No
Notes:	ounaing ii								***					
AL Frev Sump	, B	8/1/1 1014 1019	1 25	W 2.69 .80	mp 1 Actual 213.7 210.	0	21:	6 am outer 61 3.69 0.15	62	/17 Gl. O1 .O6				

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, LLC.

anteagroup

		× -3 -=													
	т——	COMPUTER				T	WELLIS	UMP HEAD			Τ		Γ		
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Datalo Downle	oaded	Enclo Locked Seal	d/Well ed?	
SUMP A 🎝	1-212.5	1853F	0.0	33640	9079	0,0	5	79:37	20,51	rÔG	(Yes)	No No	Yes	No No	
SUMP BZ	15-214	24.65	0.0	54445	580]	0.0		מיוים	V11.00	.65	(G)	NO	(<u>"</u>	NO	
EPS WET WELL		211.60	828	Net: 47	1410 46011						-	- (No	
MW-OB30		-			-		-	10,42	121527			No	(ve)	No	
MW-OB33		72			-			7.65	216,38			No	(4)	No	
MW-OB34	-	, <u>-</u>		1	-			14.55	moder	-	8	No	®	No.	
MW-OB25								16.34	17. 38.71			No	Yes		
AW-A14		4	- 1			**		11731	114.85			No	Yes	N 2	
AW-84	-				••			1,584)	1701.53		1.6.	No	Yes		
AW-C11			••		** .			47.39	196:06_		(Yes)	No	Yes	_	
MH-4	+-		-			-	••	18.61	13037	-	Yes Wes	No No	(Ve)	No No	İ
EW-B5						STAFF GAUG		13/13	TJOH.DO		Yes	No	TES.	140	İ
		- I aval		T Gauge C	bstructed?		Cleaned?	T		Comments					1
ID RIVER		Level		Yes	No)	Yes	T (%)	†							_
QUARRY	<u> </u>	2 		(Yes)	(No	Yes	(Na)	thirl	Kluser	of Sch	1160	ve	146	solto	margin
QUARRI		Ø.4				SITE INSPEC	TION		77					arture	{} {
***************************************											Yes	ival No	Xe2	No	
				nt Pump Station							(yes)	No	(Yes)	No	l
	1			l locked? (if no		dence of treap	assing, noury	PIVI)	<u> </u>		Yes	No	Yes	No	
	1			details in notes				A			Yes	No	Yes	No	
4				details in notes		tt-b vaulte in n	notes section)				Yes	No	Yes	No	
5				n well vaults? (i		(CD vants in it	nes section,				Yes	(No)	Yes	(No)	
6				te details in note							Yes	No.	Yes	(No)	
7				state details in n							Yes	(NS)	Yes	No.	
8				inces? (if yes, si		10fes sections		 			Yes	No	Yes	(No)	
9				ation control roc							Yes	(N)	Yes	No	
10 Notes:	Standing w	vater in Ethius	ant Pump Sta	ation basement	arear				,						

Notes:

None

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

antea group

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 7 March 19 Marc

		COMPUTER				.,,,,,,,,	WELL/SU	MP HEAD		***				
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM 13.8.60	Tota	lizer	GPM.	PSI 1	υтω	GW Elevation	System vs. Actual GW	Downl	ogger loaded ?	Encle Locke Sea	
SUMP A)	-3125	217.43	14.2	3394	16023	14,2	5	18,25	1333	.02	E	No	(P)	N
SUMP B	15-24	212.90	$O \cdot O$	64612	780	0.0		15,59	1445	106	(es)	No	<u> </u>	٨
EPS WET WELL		-	79.6	Net: 689 Gross: 415	476 5276	•	-		370.80				Œ,	,
MW-OB30		-		-	•	••		9.94	24.25	**	(es)	No	(3)	1
MW-OB33		-		-	•			6.28	217.75		(es)	No	(Aes)	
MW-OB34	-		11	-	-			14,6	268		(es)	No	(Pes)	L
MW-OB25		-			-	•		8.47	229.96		(Yes)	No	Yes	C
AW-A14				•	• 1.		••	16.32	130.50	`	(es)	No	Yes	
AW-B4				•	•	••	••	2972	20903	١	(Yes)	No	Yes	0
AW-C11	-		-	-	.			43	195,45'			No	Yes	2
MH-4		-		7 - Y	• . 1 k . 1 k	**	1. -	17.36	131.00		Yes	No	(Es)	
EW-B5			-	_	•			3213	70367		(Yes)	No	(es)	ı
					-4410	STAFF GAUGI Gauge C				Comments				
ID RIVER		Level 2		Gauge Ob Yes	(No)	Yes	163116117			Comments				
QUARRY		1,2		Yes		Yes	P							_
QUARKI		<u> </u>		160		SITE INSPECTI	1							_
		13.75				0,12,110,120,1					Ar	ival	Depa	rte
1	System Tele	metry check	ed at Effluen	t Pump Station	Computer Scre	en. Everything	operational?				Yes	No	(29)	
2	All Gates an	d buildings s	ecured and	locked? (if no a	nd there is evid	lence of trespa	ssing, notify P	M)			Yes	No	(Ye)	
3	Alf access re	oads clear? (I	f.no, state d	etalis in notes s	ection)						Yes	No	(Yes)	-
4	4	•		etails in notes s		·						No	(Yés)	Ľ
5	Standing wa	iter in bedroo	k extraction	well vaults? (if	yes, state whic	h vaults in not	es section)				(Yes)	No	Yes	Q
6	Any visible	site erosion?	(if yes, state	details in notes	s section)						Yes	(Ng)	Yes	9
7	Any housek	eeping issue	s? (if yes, st	ate details in no	tes section)						Yes	(NO)	Yes	
8	Any stormw	ater basin ar	ea disturban	ces? (if yes, sta	te details in no	tes section)					Yes	(™)	Yes	7
9	Standing wa	ter in Effluer	t Pump Stat	lon control roor	n?						Yes	(No	Yes	\mathbb{C}
10		ter in Effluer									Yes	X _{No})	Yes	4

- Removed water from Acaded extraction well vanily

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET



Ashland, LLC. Client: Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 42 - 8/22 Date of visit: Time of visit: O&M Tech(s): GUTE Crowe

***		COMPUTER				WELL/SU	IMP HEAD		System vs.	Datah	ogger	Enclo	sure
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Totalizer	GPM	PSI 1	DTW	GW Elevation	Actual GW Elevation	Down	oaded	Locke Seal	d/Well led?
SUMP A		20496	13.7	34563920	14.0	5	29.22	210.67		(Xe.)	No	Y=A	No
SUMP B		213.8	0.0	54906466	0.0		24,01	212.38	-1500-0000000000000000	Yels	No	(Yes	No
EPS WET WELL		2	0.0	Nat 08 470 Gross: 4547040				j	2	- 	•	Yes	No
MW-OB30		-		- 10.7080			10,59	215.60	3 (S) (2)	(Yes	No	(Yes	No
MW-OB33	-			-	SS 160 -2 5-366	35 T 55	7,59	216,44	-	100	No	Yes	Ne
MW-OB34			100000000000000000000000000000000000000	.			14,41	209.17	-	(Es)	No	(Yes)	No
MW-OB25	77			-		10 (20 Ca_C)	8.58	229.87		(Yes)	No	Yes	Ś
							16.93	219.79		(E)	No	Yes	N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/
AW-A14			2		-		29.17	209,08		(Yes)	No	Yes	(N
AW-84	90000000000000000000000000000000000000					1 8 3 <u>.</u> 8 5	42.13	195 32	- 7	(Yéş	No	Yes	(N
AW-C11	100 T-000				-		18.52	220 34		(Yes	No	(Yes)	N
MH-4	Section of the sectio	-		-				203,56		(6)	No	Yes	N
EW-B5	-				STAFF GAU		· · · · · · · · · · · · · · · · · · ·		0				
ID	T	Level		Gauge Obstructed?		Cleaned?	\ \		Comments				
RIVER	1,	3		Yes (No	Yes	No	4						
QUARRY	1	, 5		Yes (No)	Yes	TON (6)	ــــــــــــــــــــــــــــــــــــــ	<u></u>					
	<u> </u>				SITE INSPEC	TION				A	rivai	Dep	artur
	Sustam To	lometry chec	ked at Efflu	ent Pump Station Computer Sc	reeп. Everythl	ing operational	?			Yes	(No)	Yes	(N
1	System re	and buildings	secured an	d locked? (If no and there is ev	idence of tres	passing, notify	PM)			Yes	No	Yes	N
2				details in notes section)						Yes	No	Yes) N
3				details in notes section)						fres) No	Yes) N
4	Standing t	votor in hadr	nek extractio	on well vaults? (if yes, state wi	nich vaults in n	otes section)				Yes	(%)	Yes	
5				ite details in notes section)						Yes	No) Yes	
6				state details in notes section)						Yes	No) Yes	
7				ances? (if yes, state details in	notes section)					Yes	(No	Yes	(
8				tation control room?						Yes	No.	Yes	10
9				tation basement area?						Yes	(No	Yes	€
10	Standing	water in Effic	ent Pump 3	Mattoti baseineik eleni			· · · · · · · · · · · · · · · · · · ·	1 1	100				
Notes: Z	7 EP	5 wel	l regist	tering reverse &	ilow,	Sump	AJUS	it tu Med	nott,				
8/2	2/1/ tim	teleme	D7W	Actual 6Wi	Flv. Cor	npwler El	lu. dis	Ference					
Sump	B 12	[28]	22.2	5 214.14	1 21	5,95	ē	21					
	1	. 1	00 F	2/2021		רונמו							

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

.

Client: Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

08/28/2017

Time of visit: 10:20

ORM Tech(s): Nate Sun addnik



		COMPUTER					WELL/SU	MP HEAD					C1-	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tot	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Dataio		Encid Locke Sea	
SUMP A	-	209.79	0.0	3493	37180	0.0	0.0	29,42	210.47	아머니	Yes	No	Yes) No
SUMP B		213.02	95.1	5516	0780	0.0	-	23.84	2(2,55	0,07	(PB)	No	Yes	No
EPS WET WELL		-	0.0	Net: 1398 Gross: 4860	1970 4570	-				1	1		Yes	No
MW-OB30					-		\$-1000000000000000000000000000000000000	10.84	215.35		Yes	No '	Yes	No
MW-OB33			-	6.65 60 60		8 8 1 8 8		7.66	216 37		Yes	No	703	No
MW-OB34	330 (3 <u>-</u>	<u>.</u>		5.70.50	-	-	-	14.89		•	(Yes)	No	Yes	No
MW-OB25	700 200 200 200 200 200 200 200 200 200							8.72	229.73		Yes	NoC	(Yes	N
AW-A14					-	20 180 TT	-	16.95	219.87		(Yes	No	Yes	(No
AW-B4	4	.			•		•	29.63	208.12	•	(es)	No	Yes	Ø
AW-C11							200	43.68	194,77	pe.	(Yes	No	Yes	(N
MH-4		-	51.00					18-54	220 32	-	(Gs)	No	Yes	N
EW-B5						-	=	32.68	203,07		(Fes	No	Yes	N
		Level		Course	bstructed?	STAFF GAUGE	GES Cleaned?	г	wirks s	Comments				
RIVER	1			Yes	(No)	Yes	(No)	Heavy	Scuim	towards	, but	H-0/	~	
QUARRY	2,			Yes	(No)	Yes	(No)	.,(2-1-1-1	250,11	,	·			
			Jump			SITE INSPEC	TION				1 0	rival	Depa	- white
	1		1 . (= 27)	- L Dunna Ctatler	n Computer Scr	non Evendhia	na operational?		······································	······································	Yes	No	(Yes)	N
1	3				and there is evi						Yes	No	Yes	N
2						deline of troop	account, nother,				Yes	No	1Yes	N
3				details in notes details in notes							Yes	No	(Yes)	N
5	F .				if yes, state whi	ch vaults in no	otes section)				Yes	(No)	Yes	(N
6				e details in not							Yes	(No	Yes	(N
7	L			tate details in n							Yes	(No)	Yes	N
8					tate details in n	otes section)					Yes	N	Yes	(10
9				tion control ro							Yes	NO	Yes	(N
10				tion basement							Yes	No	Yes	Ø
otes:									•				. –	

8/28/17 Telemetry DTW Actual GW Elev. Computer Elev Difference Sump A 15:00 30.01 209.88 209.92 0.04 V
Sump B 15:10 22.96 213.43 213.36 0.07

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Ashland, LLC.



	Gara						Variation de la constant					80088969	ayeenee	
							MELLIST	JMP HEAD			1		ı .	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tot	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	ogger loaded ?	Locke	osure d/Wel led?
SUMP A		JII).KK	0.0	7539	4112	0.0	5	27.33	210.56	.05	(E)	No	Yes	No
SUMP B		213.86	0.0	35.44	5243	60		22, 47	Q13, YZ) [Yes	No	(Yes)	No
EPS WET			24	Net: 840	340	J-0,0	<u>.</u>	ت ا	J	_		_		No
MW-OB30			0.0	Gross: 52 Y	51430			10.60	215,59		Yes	No	(Ag)	No
MM-OB33		**************************************				***	-	7.62	71641		Yes	No	(Fig.)	No
MW-OB34	-	-	<u> </u>					14.86	3/8/17		Yes	No	∑	N
MW-OB26	700 CO-000							\$2.77	239.70	e e 	Yes	No	Yes	G
AW-A14								11.95	219,84	Sandra <u>18</u> 9 (1896)	Yes	No	Yes	(
AW-B4								94/11	20861		(Yes)	No	Yes	No
								112/6	194.80		(Yes)	No	Yes	À
AW-C11			100000000000000000000000000000000000000			Y 03 2 5 5 5 5	7-1 (Carl Coll Coll Coll Coll Coll Coll Coll Co	18 44	220.51	<u> </u>	(1)	No	(Yes)	N
MH-4	(S) (\$1.00 A)							77/11	30211			No	(Yes)	No
EW-B5	-	-				STAFF GAUG	Stranger and Control of Stranger	1 70,64	WO4 11	Segment Segment		1,10	<u> </u>	
ID		Level		Gauge O	bstructed?	~~~	Cleaned2	<u> </u>		Comments			•	
RIVER	6	Ã		Yes	No	Yes	Ng.							
QUARRY		7.	6	Yes	(No)	Yes	(Nor)							
						SITE INSPECT	ION				An	rival .	Depa	artyre
1	Suctom Tale	motry check	ed at Effluer	nt Pumo Statio	1 Computer Sci	een. Everythin	g operational?	·			Yes	(No)	Yes	(No
2					and there is evi						(F68)	No	Yes	N
3				letalls in notes							(Yes)	No	Yes	N
4				letails in notes							Yes	No	(Yes)	No
					f yes, state whi	ich vanits in no	tes section)				(Veg)	No	769	Ne
5						ion value in the					Yes	(No	Yes	(N
6				e details in not tate details in n							Yes	No	Yes	N
7						otas eartion)		<u> </u>			Yes	No.	Yes	\nearrow
8					ate details in n	otes section)					Yes	NS	(Yes)	N
9				tion control ro							(Yes)	No	Yes	N
10 otes:	Standing w	ater in Efflue	nt Pump Sta	tion basement	arear	- AMIII					1(100)	<u> </u>	حقا	
H9;	sligh	Hy is	set on	Back	lest	of \$1	av a							
teer	nefry	317	Hi. 1	1 A J.	16WE	11.	in to	c 6W	t 10	ferev	(C			
র	77	16 1 L	TW	Mana	JOWE	ا ا	1101	, 2 Am A-	T K		•			
umpt	3 175	5/2	1,232	212	.20	12	mp de 12.01	212.0	> ,	15				
		- 1				- 1			- 1					
LMP A	186	3/29	7.42	710.	47	12	10,5	7	10	35				
; 	_ L) (
111	Sur	- n t	, n		V	.16	`		•					

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET



Ashiand, LLC. Client;

Site Location: 89 Lower Warren Street, Queensbury, NY Date of visit:

Date of visit:

Time of visit:

	<u>'</u>			VIII.				() 172 (185) (185) (1)				
		COMPUTER	t	<u> </u>		<u> </u>	WELL/SU	MP HEAD				T
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	ailzer	GPM	PSI 1	ÐТW	GW Elevation	System vs. Actual GW Elevation	Datalogger Downloaded ?	Enclosure Locked/Well Sealed?
SUMP A	~~	211.12	0.0	3594	056.3	[3,3	3	29.73	210.16	.08	Yes No	Yes No
SUMP B		2(3,89	0.0	6592	140	0,0	+	24.71	214.68	.05	Yes No	Yes No
EPS WET WELL	-	. 1	0.0	Net: 333 C Gross: 5790	1 <i>530</i> 1920		-	·	_	-	_ -	Yes No
MW-OB30	96. T 186.		\$ 38 TS \$					10,66	215.53	-	Yes No	Yes No
MW-OB33	1						1	7.59	216.44	1	Yes No	(Yes No
MW-OB34		95 (24) 95 95				•		14.73	208.83		(Yes No	(Yes) No
MW-OB25			-				- 7/	16.97	719.85		Yes No	Yes (No)
AW-A14	- E				7	•	- (h	9.12	529,23	+	(Yes) No	Yes (No)
AW-84		•						28,58	20967		Yes No	Yes (No)
AW-C11		•				25	-	4348	19497	100 100 100 100 100 100 100 100 100 100	Ves No	Yes No
MH-4	-		500 m 600 s		-		: :::: - ::::::::::::::::::::::::::::::	18,59	720.32	1	Yes No	Yes No
EW-B6		25 45 38	100 miles (100 miles)				.	32.48	20327	19 12 <u>1</u>	Yes No	Yes No
ID		Level		Gauga/Di	structed?	STAFF GAUG	ES Reaned?		· · · · · · · · · · · · · · · · · · ·	Comments		
RIVER	7	3		(Xes)	(No)	Yes	(%)			COMMISSION		
QUARRY	<u> </u>	7	7.	Yes	(No)	Yes	(No)					
)XL	<u>. </u>				SITE INSPECT	ION					
	0			- D		Franklik	e anavatlanal?				Arrival	Departure
1				nt Pump Station	<u> </u>						Yes No	Yes No
3				locked? (if no a	 	tetice of despa	issing, notily r				Yes No	Yes No
				letails in notes :							Yes No	X2- 1
4 5				letails in notes : ı well vaults? (if		sh waulte la nat	oc section)				(Yes) (New)	Yes No
6				e details in note	·	SIE AUGICS IN LIO	es section;					Yes (Ng)
7				ate details in no							Yes No	Yes (No)
8				ices? (if yes, sta		ter rection)					Yes No	Yes No
9				tion control roo		nes section,					Yes No	Yes (No)
			•	tion basement a							(Yes) No	Yes No
			·				Λ			$\overline{}$	(100)	٠٠٠ العوث
#8:	Cenv	nent	Pond	Very	High.	about	les je	Ayte	nce (te	(49		
9/15/1	7 Sys	tontel 10Th	lemetri 1 Co	Very Imp 6 W E	Actu	al bw t	- IdiA	,				
SUMPA	10.36			11.09	211.	01	.08	í				
SHAPB	1044	72.4	5/2	13,99	213	3,94	1.0	5				
	Į.	1	1		1							

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 09-18-2617
Time of visit: 10:05 AM
ORM Tech(s): Nate Suhadolni IL



2.75	GPM O.D O.O D.O	Gauge Olyes The Pump Station State of the Pump	710 080 gai 7 670 gai - - - - - - - - - - - - - - - - - - -	Yes Yes SITE INSPECT sen. Everythin	PSI1 5.0	10.75 7.64 14.98 8.92 16.94 29.76 43.61 18.52 32.67	2(5.44 2(5.44 2(6.84) 208.60 229.53 2(9.88) 208.49 (94.84) 220.34 203.08	System vs. Actual GW Elevation **O.Ob.f(-D.O) ft	Down Fig. 1. See See See See See See See See See Se	ogger oaded No No No No No No No No No No No No No N	Locke Seal Vas Vas Vas Vas Vas Vas Vas Vas Vas Vas	osure ed/Weil led? No No No No No No No No No No No No No
Level 1. (O) Telemetry checks as a buildings as roads clear?	GPM O.O O.O T.O T.O T.O T.O T.O T.	Gauge Olyes The Pump Station State of the Pump	158 710 080 gal 9 670 gal	O.D D.O D.O STAFF GAUC Gauge Yes Yes SITE INSPECT	5.0	30.00 24.31 10.75 7.64 14.98 8.92 16.94 29.76 43.61 18.52 32.67	209,89 212.08 215.44 216.34 208.60 229.53 219.88 208.49 194.84 220.34 203.08	Actual GW Elevation + O.ob. fr(- O.or) f+	Down Francisco Control of the Contro	No No No No No No No No No No No No No N	Locke Seal Vas Vas Vas Vas Vas Vas Vas Vas Vas Vas	Modified? No No No No No No No No No No No No No
Level 1. (O d 2.75	D.O D.O D.O T.O T.O T.O T.O T.O T.O T.O T.O T.O T	Sbb43 Net: 24q4 Gross: 545 Gauge Of Yes Yes The Pump Station Hocked? (If no a	OBO gal OBO gal OBO gal OBO gal OBO OBO OBO OBO OBO OBO OBO OBO OBO OB	5.0 STAFF GAUG Gauge Yes Yes SITE INSPECT	EES Cleaned? No	10:75 7.64 14.98 8.92 16.94 29.76 43.61 18.52 32.67	2(2.08 2(5.44 2(6.34 208.60 224.53 219.88 208.49 194.84 220.34 203.08	- D. D7 ft	FED CES CES CES CES CES CES CES CES CES CES	No No No No No No No No No No No No No N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Ores Ores Ores Ores Ores Ores Ores Or	No No No No No No No No No No No No No N
Level 1. (O - 1) 2.75 Telemetry checks and buildings as roads clear?	D,D	Sbb43 Net: 24q4 Gross: 545 Gauge Of Yes Yes The Pump Station Hocked? (If no a	OBO gal OBO gal OBO gal OBO gal OBO OBO OBO OBO OBO OBO OBO OBO OBO OB	STAFF GAUC Gauge Yes Yes SITE INSPECT	IES Cleaned?	10:75 7.64 14.98 8.92 16.94 29.76 43.61 18.52 32.67	2(5.44 2(5.44 2(6.84) 208.60 229.53 2(9.88) 208.49 (94.84) 220.34 203.08		(Fee) (Fee)	No No No No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No No No No No No No N
Level 1. (O 5) 2.75 Telemetry checks and buildings as roads clear?		Gauge Oi Yes Yes It Pump Station	bstructed?	STAFF GAUC Gauge Yes Yes SITE INSPECT	ES Cleane(2)	7.64 14.98 8.92 16.94 29.76 43.61 18.52 32.67 14:43 F	216.34 208.60 224.53 219.88 208.49 194.84 220.34 203.08			No No No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes Ores Depa	No No No No No No No No No No No No No N
Level 1. (O	+ + + + + + + + + + + + + + + + + + +	Gauge Ol Yes Yes	bstructed? No No	STAFF GAUG Gauge Yes Yes SITE INSPECT	EES Cleaned 2 No	7.64 14.98 8.92 16.94 29.76 43.61 18.52 32.67 14:43 F	216.34 208.60 224.53 219.88 208.49 194.84 220.34 203.08	7 7 7 1	(Fee) (Fee)	No No No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes Or One of the control of the c	No No No No No No No No No
Level 1. (O 3 2.75 Telemetry checks and buildings as roads clear?		Gauge Ol Yes Yes nt Pump Station	bstructed? No No	STAFF GAUG Gauge Yes Yes SITE INSPECT	ES Cleaned?	14.98 8.92 16.94 29.76 43.61 18.52 32.67 14:43 F	208.60 224.53 219.88 208.49 194.84 220.34 203.08		Yes Yes Yes Yes Arr	No No No No No No	Yes Yes Yes Yes Yes Yes Yes Ores	No No No No No No
Level 1. (O		Gauge Ol Yes Yes nt Pump Station	bstructed? No No	STAFF GAUG Gauge Yes Yes SITE INSPECT	ES Cleaned 2 No No No	8.92 16.94 29.76 43.61 18.52 32.67 14:43 F	224.53 219.88 208.49 194.84 220.34 203.08	1 2 2	(Yes) (Yes) (Yes) (Yes) (Yes) (Yes)	No No No No No	Yes Yes Yes Yes Yes Yes Ores Depa	No No No No No
Level 1. (O 1) 2.75 Telemetry checks and buildings seroads clear?		Gauge Oi Yes Yes The Pump Station Hocked? (If no a	bstructed? No No	STAFF GAUG Gauge Yes Yes SITE INSPECT	ES Cleaned 2 No No No	16.94 29.76 43.61 18.52 32.67 14:43 F	2,19.88 2.63.49 194.84 220.34 203.08	1 1 1 1	(Yes) (Yes) (Yes) (Yes) (Yes)	No No No No	Yes Yes Yes Yes Yes One	No No No No
Level 1. (O - 1 2.75 Telemetry checks and buildings as roads clear?	t Ch	Gauge Oi Yes Yes The Pump Station	bstructed? No No	STAFF GAUC Gauge Yes Yes SITE INSPECT	ES Cleaned? No No	29.76 43.61 18.52 32.67 14:43 F	208.49 194.84 220.34 203.08	3 1 1	(Fes) (Fes) (Fes) (Fes) (Fes)	No No No No	Yes Yes Yes Yes	No No No
Level 1. (O - 1 2.75 Telemetry checks and buildings as roads clear?	+ F+ ked at Effluer secured and	Gauge Oi Yes Yes nt Pump Station	bstructed? No No	STAFF GAUG Gauge Yes Yes SITE INSPECT	ES Cleaned 2 No No No No	43.61 R.S2 32.67 14:43 F	194.84 220.34 203.08	<u> </u>	(Tes)	No No No	Yes (Yes (Yes)	No No No
Level 1. (O 3 2.75 Telemetry checks and buildings seroads clear?	+ + + ked at Effluer secured and	Gauge Ol Yes Yes Yes Int Pump Station	bstructed? No No	Gauge of Yes Yes Yes SITE INSPECT	ES Cleaned 2 No No No	18.52 32.67 14:43 F 12:30 PM	220.34 203.08		(Ves)	No No	Yes Yes Depa	No No
Level 1. (O 3 2.75 Telemetry checks and buildings seroads clear?	ft ft ked at Effluer	Gauge Ol Yes Yes The Pump Station	bstructed? No No Computer Screen	Gauge of Yes Yes Yes SITE INSPECT	EES Cleaned 2 No No	18.52 32.67 14:43 F 12:30 PM	203.08	-	Arr	No	Ves	No
Level 1. (O 1 2.75 Telemetry checs and buildings seroads clear?	C+ C+ ked at Effluer	Gauge Ol Yes Yes Yes nt Pump Station	bstructed? No No No	Gauge of Yes Yes Yes SITE INSPECT	DIES Cleaned? No No No No No No No No No No No No No	14:43 p	PM		Arr	Ival	Depa	arture
1. (O 2.75 Telemetry checks and buildings seroads clear?	ked at Effluer	Yes Yes nt Pump Station	No No Computer Screen	Gauge of Yes Yes Yes SITE INSPECT	No No	12:30 pm	PM	Comments	-			Τ"
1. (O 2.75 Telemetry checks and buildings seroads clear?	ked at Effluer	Yes Yes nt Pump Station	No No Computer Screen	Yes Yes SITE INSPECT sen. Everythin	No No	12:30 pm			-			Τ"
Telemetry chec s and buildings ss roads clear?	ked at Effluer	Yes nt Pump Station	No No No No No No No No No No No No No N	Yes SITE INSPECT sen. Everythin	ION	12:30 pm			-			Τ
Felemetry chec s and buildings ss roads clear?	ked at Effluer	nt Pump Station	n Computer Scre	SITE INSPECT	ION				-			Τ"
s and buildings ss roads clear?	secured and	l locked? (if no a			g operational?				-			Τ"
s and buildings ss roads clear?	secured and	l locked? (if no a			g operational?	'			res	No (Yes	
ss roads clear?			and there is evid							10.		No
				retice of tresp	assing, notity i	'M')			Yes	No	Y85)	No
ties operation?									Yes	No (Yes	No
									(Yes)	No	₹	No Ng)
·			if yes, state whic	n vauits in no	tes section)				Yes	(No/	Yes	
		e details in note							Yes	(M)	Yes	(N)
		tate details in no							Yes	(No)	Yes	(No)
			tate details in no	tes section)					Yes	(No)	Yes	
		ition control roo							Yes	№	Yes	
y water in Efflu	ent Pump Sta	ition basement a	area?						res	(NO)	169	N. N.V
Standing	water	but fl	boor vie	jildy di	amp.							
. 1	O~: ·	() .		10	, <i>L</i>	-100	r					
ine		,	al GWE	Compu	iter GW	E WH	terence					
3:16	29.52	210.	37	210.	તાંટ	0.0	Ь	•				
1:41	24.27	212.1	2	212.	75	0,0	7					
	Standing ime 3:16	Standing water lime DTW 3:16 29.52	Standing water but fill time DTW Actu 3:16 29.52 210.	ine DTW Actual GWE 3:16 29.52 210.37	Standing water but floor visitely do	Standing water but floor visibly damp. Time DTW Actual GWE Computer GW 3:16 29.52 210.37 210.413	Standing water but floor visibly damp. Time DTW Actual GWE Computer GWE Difference 29.52 210.37 210.413 0.00	Standing water but floor visibly damp. Time DTW Actual GWE Computer GWE Difference 3:16 29.52 210.37 210.413 0.06	Standing water but floor visitely damp. Time DTW Actual GWE Computer GWE Difference 3:16 29.52 210.37 210.413 0.06	Standing water but floor visitely damp. Time DTW Actual GWE Computer GWE Difference 3:16 29.52 210.37 210.43 0.06	Standing water but floor visitely damp. Time DTW Actual GWE Computer GWE Difference 3:16 29.52 210.37 210.43 0.06	Standing water but floor visibly damp. Time DTW Actual GWE Computer GWE Difference 3:16 29.52 210.37 210.43 0.06

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 09-25-2017
Time of visit: 9:30 ORM Tech(s): Nate Suhadolnik



··········	1	COMPUTER					WELL/SU	MP HEAD						
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	ogger oaded ?	Encle Locke Sea	
SUMP A		210.06	13,2	3645 3	3926	13.2	5.0	29.86	210,03	+0.03A	Yes	No)	(Yes)	N
SUMP B		212.76	0,0	56348		0 .0	,,,,,,,	23.55	212.84	-0.08 ft	Yes	(N)	Yes	N
EPS WET WELL	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-	76.0		599 70 55 70	1	<u>-</u>	-	-	1	•		(Yes	N
MM-OB30							-	10.93	215,26	· · · · · · · · · · · · · · · · · · ·	Yes	No	(Yes)	N
MW-OB33	arra r as s		•		•		-	7.68	216.35	44	Yes	(No)	(Yes)	N
MW-OB34	1600 CC 1150 CC				.	•	.	15.00	208.53	•	Yes	(No)	Yes	N
MW-OB25					•			8.97	229.48	4	Yes	(a)	Yes	Ø
AW-A14	7.5	-		See See See See				16.97	219,85		Yes	®	Yes	CN
AW-B4			.	50 400 mm	** *** *** *** *** ***	100000000000000000000000000000000000000		2996	208.35	•	Yes	(NO)	Yes	Ŕ
AW-C11	2550 Administration					50 Sept. (200 Height)	582	44.11	194.34	1	Yes	(No)	Yes	Ň
MH-4	550 (\$ 57 (\$50)	- 7				520.142-0.520.0000		18,54	220.32	<u>.</u>	Yes	(No)	(Yes)	N
EW-85		- L	Ţ				-	33"ьц	202,71	5 (6 5 000)	Yes	(No)	(Yes)	N
ID		Level		Gauge O	bstructed?	STAFF GAUG	ES Cleaned?	l		Comments				
RIVER	í	O		Yes	(No)	Yes	No		L	·				
QUARRY		50 50		Yes	No	Yes	No				* ***			
		30		1		SITE INSPECT	ION	L						
											Yes	ival No	Depa Yes	N
1	i			nt Pump Station								No	Yes	N
2	ļ			locked? (if no		dence of trespa	issing, notay r				Yes	No	Yes	N
3	1			details in notes							Fres)	No	Yes	N
4		-		detalls in notes n well vaults? (i		ah unuléa la na	tan coetion)				Yes	(Ng)	Yes	N
5						CIT VAUILS III IIO	tes section)				Yes	(No.	Yes	> N
6	<u> </u>			e detalls in note							Yes	(No)	Yes	N N
7				tate details in n		tas section)					Yes	(No)	Yes	en en
8				nces? (if yes, st		Aca sculoit)				-	Yes	760	Yes	C
9	atanding w	ater in Emiliei	it rump Sta	ition control rec	41114								ļ	

10: Very damp along Walls under Stairs, slightly damp along middle of room, No standing water.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 104/17
Time of visit: 207/14/17



	de la faction de la company de			Ferense Personal					A (\$200 A \$30 A \$40 A		English damagan	
		COMPUTER	l				WELL/SI	JMP HEAD			T	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	1	otalizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Datalogger Downloaded ?	
SUMP A		210.64	$O_{6}O$	368	92769	0,0	6	29,23	210.66	i07	Yes No	Yes No
SUMP B		21296	0.0	5612	4520	0.0	****	2310	213.29	006	(res) No	Yes No
EPS WET WELL		<u> </u>	0.0	Net: 33	17 140	-	_			2		Yes No
MW-OB30		<u>.</u>				7-00 (200 None (10.90	214.81	2 2	Yes No	Yes No
MW-OB33	-							2,72	216.31		(Kes) No	Yes No
MW-OB34		11111111111111111111111111111111111111			-		3 5 S	15.05	208.13	90 (B) T e (B)	(Yes) No	Yes No
MW-OB25	100000		-		_			8.97	224, 78		(Yes) No	Yes No
AW-A14		-			-			16.95	21981		Yes No	(Yes) No
AW-B4							5 5 5 E	3009	208.16	G 350 (Tab. 186)	Yes No	Yes No
AW-C11						• • • • • • • • • • • • • • • • • • • •		44.38	194.07		Yes No	Yes No
MH-4	100 100 100 100 100 100 100 100 100 100		- -		=		-	18.36	0,16,70		Yes No	(Yes) No
EW-B5			•		- 7	STAFF GAUG	FS.	177 42	303720		Yes No	Yes No
IĐ		Level		Gauge	Obstructed 3	,	Cleaned?			Comments		
RIVER		,4		Yes	No	Yes	No					
QUARRY	1 '	1		Yes		Yes	6					
						SITE INSPECT	ION				Arrival	Departure
1	System Tele	metry check	ed at Effluer	nt Pump Stati	on Computer Scr	en. Everythin	g operational?)			res No	(Yes No
2	All Gates an	d buildings s	secured and	locked? (if n	o and there is evi	ience of trespa	ıssing, notify F	PM)			Yes No	(Fes No
3	All access re	oads clear? (if no, state d	letalis іп поte	es section)						(Yes) No	No No
4	Site utilities	operation? (if no, state d	letails in note	es section)						Yes) No	(Yes/ No
5	Standing wa	iter in bedro	ck extraction	well vaults?	(if yes, state whi	ch vaults in not	les section)				Yes No	Yes No
6	Any visible :	site eroslon?	(If yes, state	e detalls in n	otes section)						Yes (16)	Yes (No
7	Any housek	eeping issue	s? (if yes, st	ate details in	notes section)						Yes No	Yes (No)
8	Any stormw	ater basin ar	ea disturban	ices? (If yes,	state details in no	ites section)					Yes (No) Yes (No)
9	Standing wa	iter in Effluei	nt Pump Stat	lon control r	oom?			,			Yes (No	Yes No
10	Standing wa	iter in Effluei	nt Pump Stat	lon basemer	nt area?						Yes (No	Yes (o
-SHIL	High o	sata	in a	ement	platto	rd						
10/4/	17 telev	netry	DTI	v l	plant Po	IE (Co.	npular	GWET	D. Here.	NCC		g
SUMP	8 11	hmé 380	123,	14/6	213.25	12	13.19		.Q			·
Sump	A 15	1	29,3	27/2	10,62	2	10.69	·	:07	ď,		
	ŧ		!						·····			

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 110 -09 - 2017

Time of visit: 10:00

O&M Tech(s): Nite Subvictable



*	T	COMPUTER					WELL/St	JMP HEAD						
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	alizer	GРM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation		ogger loaded ?		
SUMP A		211.05	0.0	37116	82 0	0.0	5	28.96	210.99	10.06	Yes	(No c	Yes	No
SUMP B		213,74	0.0	569183	304	0.0	·	22.58	213.81	-0.07	Yes	(No)	Yes	No
EPS WET WELL	-	31 (a	0.0	Net: 1275		77 10 10 10 10 10 10 10 10 10 10 10 10 10 1	- - -			1	<u>.</u>	 1	Yes	N
WM-OB30	5-		•			No. 100 Common State Common Sta		10.88	214.83		Yes	(No)	Yes	N
MW-OB33	-	- F			- 10 10 10 10		5 S T	7.65	216.38	<u>-</u>	Yes	(No)	(Yes)	N
MW-OB34	1000 100 100 100 100 100 100 100 100 10	- <u> </u>	200					14.64	208,94	-	Yes	(No)	Yes	N
MW-OB25					7			9.03	229,42	<u> </u>	Yes	(No)	Yes (Ñ
AW-A14	5.15 - 88.8				5	5 3 7 3 3 3		17,02	219.80		Yes	(NO)	Yes	(N
AW-B4			-		•		5 5 5	29.77	708.48		Yes	(No)	Yes	N
AW-C11								44,27	1941-18	20 100 <u>2</u> 7 100	Yes	(No)	Yes	N
MH-4	10 10 T	3.5			•			18.61	220.25	<u></u>	Yes	NO	Yes	N
EW-B6	\$2.00 m	500	·		5			33.02	202.73		Yes	(No C	Yes	N
		Level		0.0000	bstructed?	STAFF GAUG	ES Cleaned?	1		Comments				
ID RIVER	0.0			Yes	(No)	Yes	(No)	<u> </u>					¥2.5	À;
QUARRY	1.6			Yes	(No)	Yes	(No)							S.
40711111	1.0				1 \	SITE INSPECT	ION							
								······			1000000	ival	Depa	rtur N
1					n Computer Scr						Yes	No No		N
2					and there is evi	tence of trespa	issing, notity i	-MJ			Yes	No	(Yes)	N
3				detalls in notes							Yes	No	Yes	N
4				details in notes		-1t [Yes	(No.)	Yes	Ø
5	.				if yes, state whi	en vauits in no	tes section)				∠Yes.	No	(es)	N
6	<u> </u>			te details in note							(Tes)	Mo	Yes	(N
7				tate details in n		toe eartlant					Yes	(G)	Yes	₹ 1
8					tate details in no	itos sectivil)					Yes	(No)	Yes	•
9	Standing wa	ater in Effice	nt Pump Sta	ition control roc	om r						Yes	400	Yes	6

6) Evidence of beauer taking down tree that is now leaning on fence by centent pond. Photos taken and sent to PM

10) Area under stairs very damp. Floor in center of recom a little damp.

Alarms > AC Power cutage at Pump House - Activated 10-06-17 @ 17:25:15 - Deactivated 10-06-17 @ 17:28:46 7) Antea Group sign from front dear of effluent pump station off and laying on fround near door -. to Taped back up prior to leaving site

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 10/16/17
Time of visit: 08M Tech(s): 66MCH Croux



Odm recital.	00-17	4 Crou	<u>x</u>											******
							<u> </u>					Secretary)	jągėsvas	SERVINGS.
		COMPUTER		Γ .		<u> </u>	WELL/SU	IMP HEAD					<u> </u>	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	То	talizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	logger loaded ?	Locke	osure d/Well led?
SUMP A		210.56	0,0	37441	19.0	0.0	5.()	24.06	210.83	./0	Yes	(No)	Yes	No
SUMP B		213.88		57180	192	0.0	~	22,52	213.87	.02	Yes	(M)	(Yes)	No
EPS WET WELL			0.0	Net: 797	580 34500		_			-	1	1	, E	No
MW-OB30	90000 (T10000000)	9-10-10-10-1	<u>-</u>			35 (55 <u>15</u> 0 150)		10.38	21531		Yes	(No)	Yes	No
MW-OB33	12 (12 (12 (12 (12 (12 (12 (12 (12 (12 (5 1 5	50 000 000 000 50 000 000 000	•			2.68	216.35		Yes	No	(V)	No
MW-OB34	53.34.32.3				– 30 (30 (3)	-	- 4	15.07	20851		Yes	(%)	(Ve3)	No
MW-OB25		-00 <u>-</u> 00 -00 -00 -00 -00 -00 -00 -00 -00 -00			1		- E - E - E - E - E - E - E - E - E - E	9.12	22933		Yes	(%)	Yes	(No.
AW-A14		15 E 15			1			17,03	219.76		Yes	(No.)	Yes	(No
AW-B4	7.50		.	10.000 (0.000)	5	-		7998	20827		Yes	(No.	Yes	No
AW-C11	÷ 4	3 3			1.	**	2000 - 100 Company	44.19	194.26		Yes	لولاً	Yes	(M)
MH-4								18.57	22027	<u>.</u>	Yes	(No)	(P)	No
EW-B6				5.5.5.5		state ter se	5 5 7	33.11	20264		Yes	(No)	Yes	No
15					No. de contra de la contra dela contra de la contra del la contra de la contra de la contra del la contra del la contra de la contra del la contra del la contra de la contra del la	STAFF GAUG		r		Comments				
ID RIVER		Level		Yes	Distructed?	Yes	(No			Comments				
QUARRY	*	75		Yes	(80)	Yes	No							
QUARKI	4	, 0		163	\perp	SITE INSPECT		<u> </u>					ı	
~						*****					Arı	ival	Depa	rture
1	System Tele	metry check	ed at Effluen	t Pump Statio	n Computer Scre	en. Everythin	g operational?				(Yes)	No	Yes/	No
2	All Gates an	d buildings s	secured and	locked? (if no	and there is evid	lence of trespa	issing, notify F	M)			(Fig.)	No	(Ve3)	No
3	All access re	oads clear? (if no, state d	etails in notes	section)						(Yes)	No	Yes)	No
4	Site utilities	operation? (lf no, state d	etails in notes	section)						Yes	No	Yes	No
5	Standing wa	ter in bedroo	ck extraction	well vaults? (if yes, state whic	h vaults in not	tes section)				(Yes)	No	(Yes/	No
6	Any visible s	site erosion?	(if yes, state	details in not	es section)						Yes	(No)	Yes	(4)
7	Any housek	eeping issue	s? (if yes, st	ate details in n	otes section)						Yes	(yo)	Yes	(No.)
8	Any stormw	ater basin ar	ea disturban	ces? (if yes, s	tate details in no	tes section)					Yes	(N)	Yes	(No.
9	Standing wa	iter in Effluer	nt Pump Stat	ion control ro	om?						Yes	(W)	Yes	(No
10	Standing wa	iter in Effluer	nt Pump Stat	ion basement	area?						Yes	(المولا)	Yes	(NO
Notes:														
tc1.	emetry 1 1 i	ine	DTV) Actual	16WE 5.87 83	Comp	. GWE	D. 6	,					
Sumpl	1	n	22.52	21	5.87	213.	89	0.00	Α					
Sump	4 113	.(29.06	210	83	210.9	13	10						
\$ Cemi	ent Po	nd 6ti	11 11:3	I; det	Eineta	429 C	S Pra	chs.						
Henta	^5 e	set up	in to	allor		V								

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Ashland, LLC. Client:

Site Location:
Date of visit:
Time of visit:
O&M Tech(s):

S9 Lower Warren Street, Queensbury, NY
10, 25 [7]
15.30

	T	COMPUTER		<u> </u>			WELL/S	JMP HEAD			l			
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	ailzer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	ogger loaded ?	Encid Locke Seal	d/We
SUMP A	209.47-21.	2 210.58	0	3786	949.3	0	~	24,27			Yes	(No.)	Yes	No
SUMP B	21150-7		0	575	1949 7	0		22.90			Yes	(NO)	Yes	No
EPS WET WELL		-	0	Met: 152 Gross: 776	990	1	2 -			5 (1) (1) (1) (1) (1) (1)	-	-	Yes	N
WM-OB30	-				- ' - 1			NA	VA		Yes	(ND)	Yes	No
MW-OB33		-	•••		•		<u> </u>			ij: (50 * 50 iii)	Yes	(No	Yes	No
MW-OB34		<u>.</u>				_	-				Yes	(Mg)	Yes	No
MW-OB25											Yes	(Nd)	Yes	No
AW-A14		- 17 (S)			-					••	Yes	(No)	Yes	N
AW-B4	- 15 (F	1			-	## S3	-			***	Yes	(N6)	Yes	N
AW-C11		5									Yes	(W)	Yes	N
MH-4	•					3 - T	8 8 7				Yes	(No.)	Yes	N
EW-85	1	(F	•		•	-					Yes	(No	Yes	No
(D	1	Level		Gauge Of	ostructed?	STAFF GAUG Gauge C		T		Comments				
RIVER		0.8		Yes	(No	Yes	(No	Gang	e mudal		4	21 5	codina	0 T
QUARRY	'	1 11		Yes	NO	Yes	No.	Cana	_ ,,(000				,)
	<u> </u>	1.3		L		SITE INSPECT	ON							
												rival	Depa	
. 1		. <u></u>			Computer Scre						Yes	No	Yes	N
2	ļ				and there is evid	ence of trespa	ssing, notify i	PM)			(es	No No	(Yes)	N
3				etails in notes							(Yes) No	(Yes)	No
4				etalls in notes						. 416		No	(fes Yes	יא (
6					yes, state which	n vaults in not	es section)	· · · · · · · · ·	ict chick	sed with	Yes	No	Yes	W.
6				detalls in note							Yes	(No)	Yes	(Z)
7	ļ			ate details in no	<u> </u>	an nostion)					(A)	No	Yes	N
. 9	ļ				ate details in not	es section)					Yes	No.	Yes	(N
10		iter in Effluent iter in Effluent		ion control roo							Yes	MAN .	Yes	8

Comen's pond still higher than normal to the bo onsite moving populy.

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, LLC.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: IC/3/17
Time of visit: J5 95
O&M Tech(s): K. HOGE



		COMPUTER		*******			WELL/SU	JMP HEAD						
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	То	talizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	ogger loaded ?	Encli Locke Sea	
SUMP A	209.67-241	7210.87	1/3.2	38	145708	0	Ō	30.04			Yes	No	Yes	N
SUMP B	211.5-04		\$.0	5.77	15/670	0		23.72			Yes	Noe	Yes⊅	N
EPS WET WELL	1		76.9	Net: 425 Gross: 80	1730 32179		<u>.</u>					- 6	769,	N
MW-OB30	1857.180					ing Charles and Charles	3 00 2 30				Yes	(No)	(F)	4
MW-OB33	-	- E								•	Yes	(No)	(FES)	Z)
MW-OB34			0.000 4. 000 100		= 60 80 80 30		5 5 5		Va	•	Yes	(No)	Yes	X
MW-QB25			£.		2				17	•	Yes	MOO	Yes	۷٧ -
AW-A14		100 March	u.						\ \	-	Yes	CNS	Yes	
AW-B4		5 5 5	•		5. 2000. 2009						Yes	(NO)	Yes	
AW-C11	•		1		-						Yes	(No.2	Yes	(N
MH-4						•					Yes	No	(Yes)	N
EW-B6			-		5	- 			<u> </u>		Yes	Ø'n'	(YBS)	N
ID.		Level		Cauge C	Obstructed?	STAFF GAUG	ES Reaned?	Υ		Comments				
RIVER	 	344		Yes	N67	Yes	(No)		ALIIVAN .					
QUARRY		7 8		Yes	(No)	Yes	CNO		****					
wante	1	<u> </u>			S	ITE INSPECT	ION	1						
	- _T										-	ivai	Depa	
1	ļ. .				n Computer Scree						Yes	No	(es)	N
2					and there is evide	ence of trespa	ssing, notify F	PM)				No	(es)	N
3				tails in notes							(A)	No	₹	N
4				tails in notes						. 160	(Yes)	No	(es)	N
5	<u> </u>				If yes, state which	1 vaults in not	ies section)			NIA	Yes	No	Yes	(A)
6	ļ			details in not							Yes	9	Yes	-
7	ļ. ·				notes section)						Yes	36	Yes	Ø
8	<u> </u>				tate details in not	es section)					Yes	(B)	Yes	Ø
10	-			on control ro on basement							Yes Yes	(%)	Yes	Ø

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Ashland, LLC. Client:

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 1/6/17
Time of visit: 43 0

O&M Tech(s): 0

OMATECH(S): 0

OMATECH



		COMPUTER				l	WELL/SU	IMP HEAD						
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GРM	Tot	talizer	GРM	PSI 1	WTC	GW Elevation	System vs. Actual GW Elevation	Down!	ogger loaded ?	Encle Locke Sea	
SUMP A		210,53	0.0	384	4180.	0.0	5	28.75	211.14	,Ď6	(Yes)	No	(%)	N
SUMP B		21249	974	579	65906	97.4	ر ـــه	22,92	215,4/	:05	(F)	No	(Ps)	N
EPS WET WELL		-	88.6	Net: S (Gross: S () C	7820 15061	_		,		-		-		N
MW-OB30		5.5						9.95	215,76	200 - <u>2</u> 00 - 200	(Ye	No	(es	N
MW-OB33		-	••		-	30 30 44 31 33 3	.	7.38	216.65		\mathfrak{P}	No	(Yes)	N
MW-OB34						6 5 4 5		1294	210,64	30 (S) 4 0 (S)	(Yes	No	(Yes)	N
MW-OB25								9.07	122938		(Yès)	No	Yes	(N
AW-A14	-	3.5			-	52 70 7 0 000	-	16.98	214.84		Yes	No	Yes	(N
AW-B4	-	- L		50 50 60 60				37.87	210.36		Yes	No	Yes	N
AW-C11					<u>-</u>	_		47.98	195.41	<u> </u>	Yes	No	Yes	N
MH-4	300 TO 100					7	17.60	350'78		P	No	Yès	N	
EW-B5	÷ 4	•			- 3 3 3	20 To 10 To	**	31.58	204.17		Yes	No	Yes	N
I D	···	Level	www.	Сация О	bstructed?	STAFF GAUG	ES Cleaned?	1		Comments			*******	
RIVER	3	ÙI.		Yes	(Na)	Yes	(No)							
QUARRY		8		Yes	No	Yes	(No)							
		• <i>U</i>				SITE INSPECT	ION				T		Depa	
	Jo 7-1		and at Efficien	4 Drewn Station	n Computer Scre	on Eventhin	a operational?				Yes	ival No	Yes	N
2					and there is evid						(Yes	No	Yes	N
3		- · · · · · · · · · · · · · · · · · · ·		etails in notes		action of acopt	ioonig, nom, r	,			(Yes)	No	(Yes)	N
4	ļ			etails in notes							(Yes	No	(Yes)	N
5	<u> </u>				if yes, state while	ch vaults in no	tes section)				Yes	No	(Yes)	N
6	<u> </u>			details in not							Yes	(No)	Yes	(N
7				ate details in n							Yes (No.	Yes	N
8	1				tate details in no	ites section)					Yes	(No)	Yes	N
9	_			ion control ro		-					Yes	(No)	Yes	W
10	Standing w	ater in Efflue	nt Pump Stat	lon basement	area?						Yes	(No	Yes	N
tes:				\	16:001		1.0 (1)	IF I	AC.		•		i	_
telen	netry Tilma	- Actu	ul DTh 16	Actual 213	16WE ,,23	213.1	8	60	5					
	1.1.1	1 0.5		1	~ \	2 11 3	٧	1	mr.					

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit:

O&M Tech(s): Guret



	<u> </u>	COMPUTE	R			I	WELL/S	UMP HEAD		C	Dateles		las
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	13.8	Tota	ılizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Datalogg Download ?	ed Lock	losure ed/We aled?
SUMP A	211-212.5	211.17	00	38620	737	0.0	5	28.80	211.09	*08	Yes (N	d (Yed	N.
SUMPB	211.5-214	311.80	924	58207	438	103.4	_	24.61	211.78	<i>,0</i> 2	Yes (N	yes)	N.
EPS WET WELL		-	84,4	Net: 496 Gross: 860	350 1590		10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1		Yes	No
MW-OB30	••		= =	16.536		-		7,95	215.76		Yes 🚯	¬I\ _/) No
MW-OB33	-	-	-			-	1	7,47	216.56	-	Yes (N	47 k/	No
MW-OB34	44		-			-		13.01	210.57	-	Yes (N	7)	No
MW-OB25		-	-				_	8.84	229,56	-	Yes (N	- 1	\ X
AW-A14		-	-		-9 6 6		-	1703	214.80	•	Yes O		No
AW-B4			-					37.86	70.38	-	Yes N		No
AW-C11	8 828		-				-	45.M	195.23	-	Yes (N		(No
MH-4			5 8	5.546.65			5 6 6 5	18,60	24076	•	Yes (N		No
EW-B5	_		-			STAFF GAUG	FS	11,01	40 <u>),</u> 44		Yes (N	y (Yes)	No
ID	T	Level		Gauge Oi	structed?		leaned?	1		Comments			
RIVER		34		Yes	€	Yes	NB						
QUARRY		T.T. '		Yes	No	Yes	No						
						SITE INSPECT	TION				Arrival	Den	arture
1	All Gates a	ınd bulldings	secured and	i locked? (if no	and there is evi	dence of trespa	ssing, notify	PM)			Yes N	-	$\overline{}$
2	All access	roads clear?	(if no, state	details in notes	section)						Yes N		No
3	Site utilitie	s operation?	(if no, state	detalls in notes	section)						(Fes N	~ 1 . /	No
4	Standing v	vater in bedro	ock extractio	л well vauits? (i	f yes, state wh	ich vaults in no	tes section)				Yes (N	<	No
5	<u> </u>			te details in not							Yes (V	≠-	No.
6	ļ	• •		state detalls in n							Yes (N		(No
7	<u> </u>			inces? (if yes, s		otes section)					Yes (N	<u> </u>	No.
8	I		··········	ation basement							Yes (N	*	No
lotes:	1						ſ	1 (1 12	1			<u>, </u>
Teleme	try ad	rucil , !	Actual	6	mputer	Dift	- L - S	vemple wmple wmp w-85	nt Bei 4	aus h	epla	Y'U(M
	UTN	16	WE		WL	34	<i>J</i> (Chilp 1	R				
1233	28.81	0 2	11.09		1,17	1.00	<u> </u>	ump	<i>-</i>				
	246	1 12	111.78	1 311	.80	1 ,00	, F	w-135					
į	124.00	' ^	VIV4 ,	-		1	ا ا	11 5D"	K.				
,)			1		1	I^{*}	1ね ししい	4,5				
	F	ŀ		1		Ĭ	. A	W-84					

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

O&M Tech(s): K. Angel

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: Time of visit: 9:30-11



		<u> </u>											SELMENT	
	T	COMPUTER		I			WELL/S	UMP HEAD		T				
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tota	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	logger loaded ?	Locke	osure d/Wel led?
SUMP A	211-212.5	210.816	6.0	3923	047.3	00	O	29.18	210.71	\$1037R	Yes	8	Yes	No
SUMP B	211.5-214	213.21	6,0		3848	ſ	·	23.13	213.26	0.05	Yes	(No.)	Yes	No
EPS WET WELL	1		0.0	Net: 8 6 (Gross: 89	33939					1		-	Yes	No
MW-OB30	5 -55 - 57 -8		5 7 8			1	**	1			Yes	M	Yes	No
MW-OB33	-	-				3					Yes	1	Yes	No
MW-OB34			J.	30.00	-8.3 6.6 5	-	5 o 4			5 T 1	Yes	Nø	Yes	No
MW-OB25		-	1						(M	-	Yes	N	Yes	No
AW-A14	8 8 - - 8		1		 .	100 (100 (100 (100 (100 (100 (100 (100	8 10 - 8 12		1		Yes	(Ng)	Yes	No
AW-B4	-		-		_	Ī	-			-	Yes	Med	Yes	No
AW-C11		-0.02-000	je J		.5 (4 (5 (5)	ja J	8 8 2 8				Yes	(No)	Yes	No
MH-4		- -	100			-				-	Yes	®	Yes	No
EW-B5	30 (10 <u>1</u> 0 (10 (10 (10 (10 (10 (10 (10 (10 (10 (1		5	- 2 2 2 2					`		Yes	(NO)	Yes	No
	~ * ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					STAFF GAU								
(D RIVER		Level 7			ostructed?	Gauge (Yes	Cleaned?			Comments				
QUARRY	ļ	205		Yes Yes		Yes	1,0							
QUARRY		امل		res	No	SITE INSPEC	TION							
		***************************************									Arr	įval	Depa	rture
1	All Gates a	nd buildings	secured and	locked? (if no a	and there is evid	lence of tresp	assing, notify F	² M)			Yes-) No	(F)	No
2	All access	roads clear?	(if no, state	details in notes	section)						Yes	No	(Yes	No
3	Site utilitie	s operation?	(if no, state o	letalls in notes	section)						(10)	No	6	No
4					f yes, state whic	ch vaults in no	tes section)		\sim	of chok	Yes	No	Yes	No
5			• • •	e details in note							Yes	(No)	Yes	No
6	ļ <u>.</u>	· -		tate details in n	-						Yes		Yes	(No.)
8	<u> </u>			ices? (if yes, st	ate details in no	rtes section)					Yes Yes	3)(5	Yes Yes	(No)
. 9				tion control roo tion basement a							Yes	3		(No)
otes:	oraliumy w	arei ai ritide	in ∈ ninth ora	don passinent		. /	١.٨				100		1	<u> </u>

Aztech ensite replacing wet well gump in pump house Aztech replace transducer in Sump A with more accurate model on 11/20/17. When checking level on 11/21/17 Aztech onsite to relationate after sitting overnight

Revision Date 3/31/2015 Revision Date 3/31/2017 Revised By DR

Clerk Astrony, me

1 00 Loans Warran Street Co.

Date of volte

11/28/17

FORMER HERCULESICIBA GEIGY GWES DATA SHEET



	No.	COMPUTER						***************************************		-	100000	1000	1200	-
WELLID	Well Setpoint/ Interval	Reported GW Elevation	OPM	Total	ter	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	ogger oaded	Locks	dWell led?
SUMP A	211-212.5	210.80	0.0	34568	200	0.0	5	29.33	210.56	,24	Yes	6	(ve)	No
SUMP 8	211.5-214	21.67	929	58648	X46	99.4	-	24.84	211.55	.02	Yes	(0)	0	No
EPS WET WELL	720	-	86.7	- 1242	70	-	-	-	1		4		(909)	Air
MW-0830	To see			INKT	510			10.25	215.46		Yes	(1)	3	No
MW-OB33	-						41	37 110	20335		Yes	0	(Fee)	No
MW-0834	100						14	1227	20.21		Yes	6	6	No
MW-OB26	II PAS			1		12	11	2 50	229 8/	WO - TH	Yes	6	YE	(No)
AW-A14	1000	1		1			11-	17.02	219 9	-	Yes	0	Yes	100
AW-D4	1200						1	28.43	209.82		Yes	0	Yes	1
AW-C11						1	11	113 97	194.48	HE	Yes	0	Yes	(0)
MH-4	10000		100				1-1	1860	220,26	14	Yes	0	0	760
EW-BS	112011						19	1300	216.45	10000	Yes	(800)	(No
211-03	2000	171			Market Control	STAFF GAU		7.30	7107-15			_	-	
10		Level		Gauge Ob			Chaned?	Feb.		Comments				1
RIVER	0	1.7		Yes	(10)	Yes	(2)	0 0		41.01	H.			100
QUARRY		1.0		Yes	60	SITE INSPEC	Con	land	Frozen	7190	4	-11	10000	
			-									TWINT		acture
- 51	All Gates a	nd buildings	secured and	t locked? (If no a	and there is ev	idence of trees	seesing, notity	PM)			6	-	(3)	No
2	N. Carlotte and St. Car			details in notes							30	No	33	
3	Site utilities	operation?	Of no, state	details in notes	section)	on other contract			11/4	take	Yes	_	Yes	-
4				o well youth? (F		NUT VENTS IN IS	otes section)		V/A	Chark	Yes	10	No.	
	Any visible	site erusion	(if yes, stat	te details is note	a section)					0	Yes	-	4 1000	
	Any houses	seping Issue	187 (If yes, s	tate details in n	otes section)	notes sections					Yes	- 7	Yes	===
7				nces? (if yes, st		DOUGH BECOOK)					Ye	-1-24	Ye	. 6
	Standing wo	ater in Effluer	nt Pump Sta	ition control roo	mr.						Ye	. /4	D vo	. 6
,	Standing wi	iter in Effluer	M Pump Sta	tion basement a	red?								Contract of	7
125/17	- Alas	m- A	L Po	omp. 6h 211.57	tage (pump	house							
element	Z:	DTU	010	omp. 6W	E Ac	tual 6 W	E DIS	rine						
mpB	932	24.8	4 6	211.57	21	1.55	1.0	12						
		29.3		310.80	121	0.56	1.3							

SumpA 1035 29.24 210.90

210.65

. 25'

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit:

O&M Tech(s): _



	T	COMPUTER	₹			1	WELLS	UMP HEAD			Τ			
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	Tot	alizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation	Down	ogger loaded ?	Locke	osure d/Well led?
SUMP A	211-212.5	21097	0.0	3983	0199	0,0	5	28.94	210.95	.62	Yes) No (Yes	No
SUMP B	211,5-214	211.78	125,6	58895	776	105.6		2467		2006	()	No	0	No
EPS WET WELL	•	•	85.4	Net: 3 Gross: 947	650 681	-	5 - 10 6 5 10 7 16			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		1	(Vi)	No
MW-OB30		Ī	-		-8125 515	2 3 1 2 2	3 5 -	10.37	215.34	3 4 37	(Y)s	No	Yes	No
MW-OB33	5-28-28-2	ı	•			1 -	-	7.62	216.41	ī	(A)	No	6	No
MW-OB34	300000000000000000000000000000000000000	6 64 65 6				-		13.50	210.08	1	(Veg	Nο	Yes	No
MW-OB25	55.000 (50.00 (5) 55.000 - 55.00	- 465 (200 (200 d) - 466 (200 (200 d)			•	-		962	22483		(Pes)	No	Yes	(No)
AW-A14		4	_					1707	219.80	-	(Yes)	No	Yes	No)
AW-B4		-	-		••	•		28 /u	209.61		(Fis)	No	Yes	(No
AW-C11		2.5	1			- ,	-	43 93	194.52	2.2	(Yes)	No	Yes	No
MH-4		-				-		(8 60	220 26	-	(Ves)	No	(₹)	No
EW-B5			1		**		444	37.44	203.3		(Yes)	No	(Yeg	No
	300000000000000000000000000000000000000					STAFF GAU		1000	17.71					
ID		Level			ostructed?		Cleaned2		·····	Comments				
RIVER		<u> </u>		Yes	(%)	Yes	(No							
QUARRY		.()		Yes	(No)	Yes SITE INSPEC	TION No			········				
			,			OTTE ITOT LO	11011	***********			Arri	val	Depa	rture
1	All Gates a	nd buildings	secured and	locked? (If no	and there is ev	idence of tresp	assing, notify	PM)			Yes	No	(Yes)	No
2	All access	roads clear?	(if no, state o	details in notes	section)						Yes	No	Yes	No
3				letails in notes							Yes	No	(Yes/	No
4	ļ					ilch vaults in no	ites section)		M		Yes	No Z	Yes	No
5				e detalls in not	······································						Yes	€	Yes	(Nó
7				tate details in n		satur santian)					Yes	<u>(%)</u>	Yes	(NO)
8	Any stormwater basin area disturbances? (if yes, state details in notes section) Yes (16) Yes (10) Standing water in Effluent Pump Station control room? Yes (No) Yes (No)											(No.)		
9	 											13		
otes;	I					t. A						$\overline{\varphi}$		<u> </u>
Firex	tingni	shers ?	trails	er are	Likely	reculled		7	H: 0/1)	d not	Chel	:K 1	ex\$1	act
letin	eta/			<i>i</i> t -		1 1/1	of the	77	W	JEI (J				
	1/1	. 101	W I	Comp. 6	WE A	ctual 61	NE 10,	44		١	. 1			×I
. d	4.1/4	<u> </u>	& O)	5 to 0	, l.	3 1/0 PL C	1	ለ ጋ	Fire 1	extina	uish	e/S	O/A	3: fC
ump P	1113	0 12	0.74	7. OIK	/ 3	310.45	-	7/ 3/	V2/6/6:	5 K	1d; z	W	/ pl	est
I	l l	i _		حاليم	~ \ .	.	1	2	الم	1000	b 1		/s/	051
I G	1112	7 121	1.671	- 211.7	8 1	11175	Ĺ	$f \setminus f$	1 \ \ \ \ \ \ \ \	· N.J	1.0	ω	7 P "	,
Firex Telemi Sumpt] [13	7 /21	4.67	211.1	8);	111.72	}.	06	1:816	5 Kid	g. e	W	<i>, p</i>	, ر

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit: 400



	COMPUTER						WELL/S	UMP HEAD		System vs.	Datal	aaaar	Engl	ocuro
WELL ID	Weil Setpoint/ Interval	Setpoint/ GW GPM			Totalizer		GPM PSI1		GW Elevation	Actual GW Elevation	Datalogger Downloaded ?			
SUMP A	211-212.5 210,600		N,	Μ	0.0		2277	210,73	/ ئ،	Yes	(No)	(v)	No	
SUMP B	211.5-214	213.68	0,0	N/	M'	0.0	5	2277	213,62	JB(Yes	(4)	(Ye)	No
EPS WET WELL			NM	Not: N N Gross: N	Λ .					ı	9-4-10-10-10-10-10-10-10-10-10-10-10-10-10-	1	(Y)	No
MW-OB30								10.08	21563	000 000 000 000 000 000 000 000 000 00	Yes	(No)	(₹@)	No
MW-OB33		-						13.2576	7 216.36		Yes	(No)	(Ye)	No
MW-OB34								Hot 8 (3)	12,012		Yes	No	(P)	No
MW-OB25								8.21	730,24		(Yes)	No	Yes	(No
AW-A14								17.16	219.64		(Ve)	No	Yes	€
AW-B4	145-44		-					28.21	210.04		Yes	No	Yes	No
AW-C11								43.62	194.83		(Yes)	No	Yes	Ŵ
MH-4				-		- 1		18.61	220,25		Yes	(No)	(Per	No
EW-B5	1000 H	10 10 10 10 10 10 10 10 10 10 10 10 10 1				7		32.03			Yes	(No)	€	No
	1	i accedi i				STAFF GAUG		r-		Comments				
ID	1	Level			bstructed?	 	leaned?			Comments				
RIVER		2.7	٨	Yes	(No)	Yes —	No No	NA						
QUARRY			۸	Yes	No	SITE INSPECT		INA						
											Arr	ival	Depa	rture
1	All Gates a	nd buildings	secured and	l locked? (if по	and there is evi	dence of trespa	ssing, notify I	PM)			(Fes)	No	(Yes	No
2	Ail access roads clear? (if no, state details in notes section)											No	Yes	No
3	Site utilities operation? (If no, state details in notes section)											No	(P)	No
4	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)											No	Yes	No
5	Any visible	site erosion	? (if yes, stat	te details in not	es section)						Yes	(NR)	Yes	(No
6	Any housel	ceeping issu	es? (if yes, s	tate details in n	otes section)						Yes	(No)	Yes	(No
. 7	Any stormy	vater basin a	rea disturba	nces? (If yes, s	tate details in л	otes section)					Yes	(No)	Yes	(No
8	Standing w	ater in Efflue	nt Pump Sta	tion control roc	om?						Yes	(NO)	Yes	No
9	Standing w	ater in Efflue	ent Pump Sta	tion basement	area?						Yes	(No.	Yes	7

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 12-18-2017

Time of visit:

4:15

ORM Tech(s): Note Suhadd nill



	COMPUTER					***************************************						Datalogger					
WELL ID	Well Reported Setpoint/ GW Interval Elevation		GPM	Tot	Totalizer		PSI 1	DŦW	GW Elevation	Actual GW Elevation	Datalogge Downloade ?						
SUMP A	211-212.5	210.60	0.0	40490	9127	0.0	5	29.33	210,56	+0.04	Yes ((No	Ye	١			
SUMPB	211.5-214	· • 1	D, D	502390	234	0.0		22.59	213.86	-0.03	Yes	(No	Yes	ا ﴿			
EPS WET	91 100 100 100	-	0.0	Not: 82496		5 6 6 6 •-				_			Yes				
WELL			CO. U	G1055: 9930	171									L			
MW-OB30	-	24	-				4-	10,28	215,43		Yes	(No)	Yes				
MW-OB33	_		<u>-</u>					7.91	216-12	-	Yes	(No)	(Yes)				
MW-OB34		- 1					-	13,52	210.06	7	Yes	(i)	Yes				
MW-OB26			<u>.</u>					8,30	230.15	=	Yes	®	Yes				
AW-A14		2.0	4			-	_	17.37	219.45	-	Yes	(3)	Yes				
AW-B4	- <u>-</u>		-		-	<u>-</u>		28.60	209.65	-	Yes	\bigcirc	Yes	(
AW-C11	3 3 4- 3 5	24	4 4 3		 .		_	43,98	194,47	1	Yes	(No)	Yes	(
мн-4	-	T .	55		- -	.	8 974.6	18.99	219.87	=	Yes	€	(Yes)	1			
EW-B5	-	4	<u> </u>		-			32.38	203.37	-	Yes	(N)	(es)				
ID	I	Level		Gauge O	bstructed?	STAFF GAUGE C	leaned?	I		Comments				_			
RIVER	24	15		Yes	(No)	Yes	No	River 1	ot froze	<u></u>							
QUARRY	0.	2		Yes	(No	Yes	(No)		Quarry Frozen-, measured from top of accumulated:								
		****				SITE INSPEC	rion	•			Arr		Depa				
1	All Gates a	nd buildings s	secured and	locked? (if no	and there is evid	ence of trespa	ssing, notify	PM)			(Yes)	No	(Yes)	Π			
2	All access	roads clear?	(If no, state	letails in notes	section)					44	Yes	No	(Yes)				
3	Site utilities operation? (if no, state details in notes section)										(Yes)	No	(Yes)				
4	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)									Yes	(N_{\circ})	Yes	(
5	Any visible site erosion? (if yes, state details in notes section)										Yes	(NO)	Yes	(
6	<u> </u>			ate details in r	· · · · ·						Yes	\otimes	Yes	(
7	<u> </u>				tate details in no	tes section)					Yes	(E)	Yes	1			
8 9	Standing w Standing w			tion control ro							Yes Yes	(00) (00)	Yes	7			

Sump B flow alarm activated upon arrival. Has been happening trequently the previous week and is due to recharge being slow I taking longer than 8 hours to recharge. PM Cody Hume aware of alarms

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Cilent:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit:

Time of visit:

O&M Tech(s):



		COMPUTER	₹				WELL/S	UMP HEAD					l	
WELL ID	Well Setpoint/ Interval	Reported GW Elevation	GPM	To	otalizer	GPM	PSI 1	DTW	GW Elevation	System vs. Actual GW Elevation		logger loaded ?	Locke	losure ed/Well iled?
SUMP A	211-212.5	210.46	0.0	4896	1070	0.0	5	28.45	210,94	,02	Yes	N°9	Ý	No
SUMP B	211.5-214	dr 14	0.0	5949	1734		- Annesseering	24.33	212,06	.08	Yes	CES)	735	No
EPS WET WELL			£45	Net: 1(5つ) Gross: 102に	150	T				-	•	-	Yes	No
MW-OB30	••	1	¥.		••		8 8 8	10.5	21558	6 1	Yes	N	Yes	No
MW-OB33	_		1		ia is		_	8.01	216.02	J	Yes	(No)	(Ye)	No
MW-OB34		10 10 10	1				6 8 . 5 6	14.93	209.19	1	Yes	6	(Yes)	No
MW-OB25		-	1		-	-	-	8.13	230.32	-	Yes	(%)	Yes	(No
AW-A14	1	1 (2) 1 (1) 1 (2)	1. 7. 1 5.				.	17.15	219.67	ŧ	Yes	(a)	Yes	(N)
AW-B4	1	-	•			5 - 5 5	1	29.98	208.27	- -	Yes	(%)	Yes	(No)
AW-C11	-	1	I			-		44,64	193.81		Yes	(m)	Yes	(M)
MH-4		-	-			-	-	13.74	220.12	- E	Yes	À()	(Yes)	No
EW-B5	-		Ī				_	3327	202,48	-	Yes	No	(Yes)	No
		***************************************				STAFF GAUG	ES		***************************************					
IĐ		Level		Gauge C	Obstructed?	Gauge C		-/-		Comments		_		,
RIVER		Ÿ		(Yes)	No	Yes	No)	Ited	- OVCY	Mask	seel(ره)	sf imou	tedi
QUARRY	<u> </u>	6		Yes	No	Yes	No	ICPX	OVER	@ 100	4	Sadi		
						SITE INSPECT	ION			<u>"</u> #	٨٠	ival	- I Dona	rture
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)										Yes	No	Yes	No
2	All access i	All access roads clear? (if no, state details in notes section)								Ves	No	Yes	No	
3	Site utilities operation? (if no, state details in notes section)							Yes	No	Yes	No			
4	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)							Yes	No	Yes	No			
5	Any visible	site erosion?	' (if yes, state	details in no	tes section)	~~					Yes	(ga)	Yes	(NO)
6	Any housek	eeping Issue	s? (If yes, st	ate details in	notes section)						Yes	(No)	Yes	(No
7					state details in no	otes section)					Yes	(M)	Yes	(No
8	Standing w	ater in Effluer	nt Pump Stat	lon control ro	om?						Yes	No	Yes	No
9	F			ion basement								(No)		(No)

k on their in Back left Corner