February 28, 2020

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

Subject: **2019 Operations & Maintenance Report**
Former Ciba-Geigy Facility
Glens Falls, New York
NYSDEC #557011

Dear Mr. Jankauskas:

This *Operations and Maintenance* (O&M) report summarizes O&M activities performed between January 1 and December 31, 2019, 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**). O&M 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 6, 2015, with an expiration date of March 5, 2025.

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

NYSDEC and City of Glens Falls Site Inspections

On May 20, 2019, Mr. Brian Jankauskas of the NYSDEC conducted a site walk and inspection with representatives from BASF, Brown and Caldwell (representing BASF), and Antea Group (representing Hercules). The site walk included visual inspections of the following:

- Effluent pumping station (EPS)
- Former stormwater impoundment basin area
- Lower field (including the vault enclosures at Sump B and well EW-B5)
- Upper field
- Resource Conservation and Recovery Area (RCRA) cap area
- Pretreatment plant area

No violations or deviations from standard operating procedures were noted during the inspection.

On June 3, 2019, Mr. Chris Miller, with 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 in accordance with the *Remedy Optimization Plan* (ROP), which was approved by NYSDEC and implemented in November 2016. Groundwater was extracted throughout 2019 from two sumps (Sumps A and B) in the overburden French Drain System (**Figure 2**). Additionally, as described in the letter submitted to the NYSDEC on November 27, 2018 and approved by the NYSDEC on December 6, 2018,[1] groundwater extraction was reinitiated at well EW-B5 in December 2018. Extraction Well EW-B5 was active throughout 2019, except for an approximately one month planned shut-down period in October to November 2019. In accordance with the ROP, groundwater is no longer extracted from Sump C or the other 19 inactive bedrock groundwater extraction wells.

In November 2018, the Site telemetry system for the GWES instrumentation was upgraded to integrate well EW-B5 into the telemetry system. The EW-B5 extraction well pump, which had been removed in November 2016, was reinstalled, and pumping was initiated at well EW-B5 on December 12, 2018.

Extracted groundwater is 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 EPS building near the northeastern corner of the Site. The extracted water is 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. 002F, issued in April 2012 (renewed April 2017). In February 2018, the POTW provided an updated page 11 for the permit, which specifies a pH range of 6.0 to 9.0 standard units (SU) that is consistent with the site-specific limits indicated on page 3 of the permit. This updated permit page is included in **Attachment 1**, along with the current permit dated April 2017.

POTW Discharge Monitoring Results

On a quarterly basis in 2019, in accordance with the POTW permit, discharge sampling was performed and Discharge Monitoring Reports (DMRs) were submitted to the POTW.

As specified in the permit, the GWES discharge was monitored for several parameters. The DMRs, including the laboratory analytical reports, are included in **Attachment 2**. 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:

- Total Flow: 175,000 gallons per day (gpd) (quarterly average)

[1] Letter submitted to the NYSDEC by EHS Support on November 27, 2018, RE: EW-B5 Operations and Main Plant Site Groundwater and Surface Water Sampling Program

- Total Flow: 350,000 gpd (instantaneous maximum)
- Total Chromium: 3.1 pounds per day (lb/day) (maximum, based on quarterly sample result and quarterly average flow)
- Total Cyanide: 3.0 milligrams per liter (mg/L) (maximum, based on quarterly sample result)

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 quarterly 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 2019 POTW discharge results for flow, cyanide, and chromium measurements are summarized in **Table 1.** All results were within the applicable permit limits.

Table 1 Comparison of Measured Values to Permit Values (Flow, Cyanide, Chromium)

	Flow (gpd, Max. Daily)	Flow (gpd, Ave.)	Sample Date	Total Cyanide (mg/L)	Total Chromium (mg/L)	Chromium (lb/day)
Permit Limits	**350,000**	**175,000**	--	**3.0**	--	**3.1**
Jan - Mar 2019	58,000	42,400	1/5/2019	0.65	0.56	0.20
Apr - Jun 2019	118,000	51,044	4/16/2019	0.50	0.37	0.16
Jul - Sept 2019	155,000	51,489	9/20/2019	0.50	0.30	0.13
Oct - Dec 2019	101,000	44,641	12/11/2019	0.45	0.38	0.14
Average	--	**47,394**	--	**0.53**	**0.40**	**0.16**

Notes:
Dashes represent information that is not applicable.
Ave = average
gpd = gallons per day
Max = maximum
mg/L = milligrams per Liter
lb/day = pounds per day

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.

The conversion calculation is as follows:

$$Total\ chromium\ \left(\frac{lb}{day}\right) = \left(x\ \frac{mg}{L}\right)\left(\frac{g}{10^3\ mg}\right)\left(\frac{lb}{453.59\ g}\right)\left(\frac{1\ L}{0.2642\ gal}\right)\left(y\ \frac{gal}{day}\right)$$

where:
x = chromium concentration (quarterly sample result)
y = average quarterly flow
lb = pounds
mg = milligrams
L = liters
g = grams
gal = gallons

Chromium recovered by the GWES in 2019 averaged 0.40 mg/L (0.16 lb/day). This is similar to the recovery rate in 2016 prior to implementation of the ROP and is greater than the average recovery rate in 2017-2018 (0.09 lb/day). This is likely attributable to resumed pumping at extraction well EW-B5 in 2019. Well EW-B5 is the well with the highest chromium concentrations at the MPS.

Other Parameters

The POTW permit includes limits for several additional parameters. The POTW permit requires continuous sampling for pH; quarterly sampling for lead, mercury, and total phenols; and annual sampling for 23 additional analytes, biological 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**]).

Annual discharge sampling for the full suite of analytes listed in the permit was performed on December 11, 2019. The sample results for additional metals (i.e., beyond cyanide and chromium, which were discussed above) are provided in **Attachment 3,** along with the permit limits. All sample results were within permit limits, with concentrations orders of magnitude below the respective permit limits.

On-Site GWES Discharge Measurements

Flow totalizers were in place in Sump A, Sump B, and extraction well EW-B5 throughout 2019. Totalizer readings were manually recorded in both sumps and in EW-B5 on an approximately weekly basis. For Sumps A and B, totalizer readings were also recorded on a daily basis through the Site telemetry system.

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, an average of 80 percent of the flow from the French Drain was contributed by Sump B. **Figure 3** illustrates the daily flow totals from Sumps A and B, as recorded by the telemetry system.

When telemetry upgrades were completed for Sumps A and B in late-2016, operational data including pump status and flow rate became available for each location, with data recorded on 15-minute intervals. At Sump B, consistent with 2017 and 2018, pumping typically occurred three times a day at approximately 2-hour intervals. When the pump is active, Sump B pumping rates average approximately 90 gallons per minute (gpm). The typical pumping rate for the Sump A pump was 25 gpm, with the pump cycling approximately every hour for a 15- to 30-minute duration.

Extraction rates at well EW-B5 averaged approximately 300 gpd. When active, the EW-B5 pump extracts water at a rate of 10 gpm. Weekly totalizer readings for EW-B5 are summarized in **Attachment 4**.

Pumping Set Points

The pumping level set points in Sumps A and B have been 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 210.2 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.

In December 2018, the level-float controls for the EW-B5 well pump were set to initiate pumping at a water level elevation of 194.0 ft msl and continue pumping until the water level reaches 187.7 ft msl. The pumping elevation range is similar to the range utilized prior to the discontinuation of groundwater extraction at well EW-B5 in 2016.

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 RCRA cap, permeable cover, roads, fencing, surface drainage system, and vegetative cover. Inspection reports are provided in **Attachment 5.**

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 pretreatment 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 2019. 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 build-up 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.

Intermittent power, system alarm, and telemetry communication outages occurred in April - May 2019. As communicated with the NYSDEC in May 2019, the data radios for Sump A and EW-B5 began to



experience sporadic signal loss.[2] The issues were remedied by replacement of the surge protection and data radios in May – June 2019.

As communicated with the NYSDEC in October 2019,[3] electrical issues at the MPS caused a temporary shut-down of GWES operations. The shut-down included Sump A, Sump B, and well EW-B5, and extended over the period of September 28, 2019 through October 24, 2019. After observing that the pump in Sump A was not functioning properly, one of the electrical lines at the site was discovered to be running at a lower voltage than it should be. Since this can seriously damage equipment (to both Sumps A and B), the power to everything was shut off. A licensed electrician conducted work at the Site over the period of October 4 through October 25, 2019, including the necessary troubleshooting and repairs. The source of the electrical voltage drop was identified as damaged wires located in an underground vault near the EPS. Pumping at Sumps A and B was reinitiated on October 24, 2019. Pumping at EW-B5 was reinitiated on November 14, 2019, after allowing for a planned period of water level data collection under non-pumping conditions utilizing pressure transducers.

A summary of electrical and mechanical upgrades performed in 2019 is provided in **Table 2.**

Table 2 Summary of Mechanical and Electrical Upgrades

Date	Description
5/6/2019	Totalizer in well EW-B5 replaced.
5/17/2019	Surge protector replaced following surge event or lightning strike in April.
6/5/2019	Data radios upgraded to increase signal strength and for better compatibility with the PLC.
8/16/2019	Totalizer in well EW-B5 replaced.
10/4/2019	Camlock fitting for Sump A replaced due to excessive shearing.
10/7/2019	Electrical work in underground vault including re-splicing out-of-code wires, removing superfluous switches and wiring, and installing proper splicing terminals.
10/11/2019	Electrical work in a second underground vault, including splicing wires properly and pulling new wiring through. The damaged manhole cover of this vault was replaced. Standing water and mud were also removed from the bottom of the vault.
10/24/2019	Damaged wires were replaced in a third underground vault near the EPS, including waterproof splices.

EPS = effluent pumping station
PLC = programmable logic controller

A schematic illustrating the underground electrical repairs and rewiring conducted in October 2019 is provided as **Attachment 6.**

[2] E-mail from Cassie Reuter, EHS Support, to Brian Jankauskas, NYSDEC, on May 17, 2019.
[3] Phone call between Brian Jankauskas, NYSDEC, and Cassie Reuter, EHS Support, on October 15, 2019; related e-mails on October 14 and October 25, 2019.

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

Cassie R. Reuter
Project Manager

List of Tables:
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Figure 3 – Daily Extraction Rates – Sumps A and B

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Attachment 2 – 2019 Discharge Monitoring Reports
Attachment 3 – POTW Effluent Extended Parameters
Attachment 4 – EW-B5 Weekly Totalizer Summary
Attachment 5 – Site Inspection Reports
Attachment 6 – Schematic – Underground Power Line Repair Project

cc: Eamonn O'Neill, New York State Department of Health
James Vondracek, Ashland LLC
Stephen Havlik, BASF Corporation
Laura McMahon, BASF Corporation
Cody Hume, Antea Group
Christopher Meyer, Antea Group
Kristin VanLandingham, EHS Support LLC
Jim Breza, EHS Support
Bob O'Neill, Brown & Caldwell

Certification Page

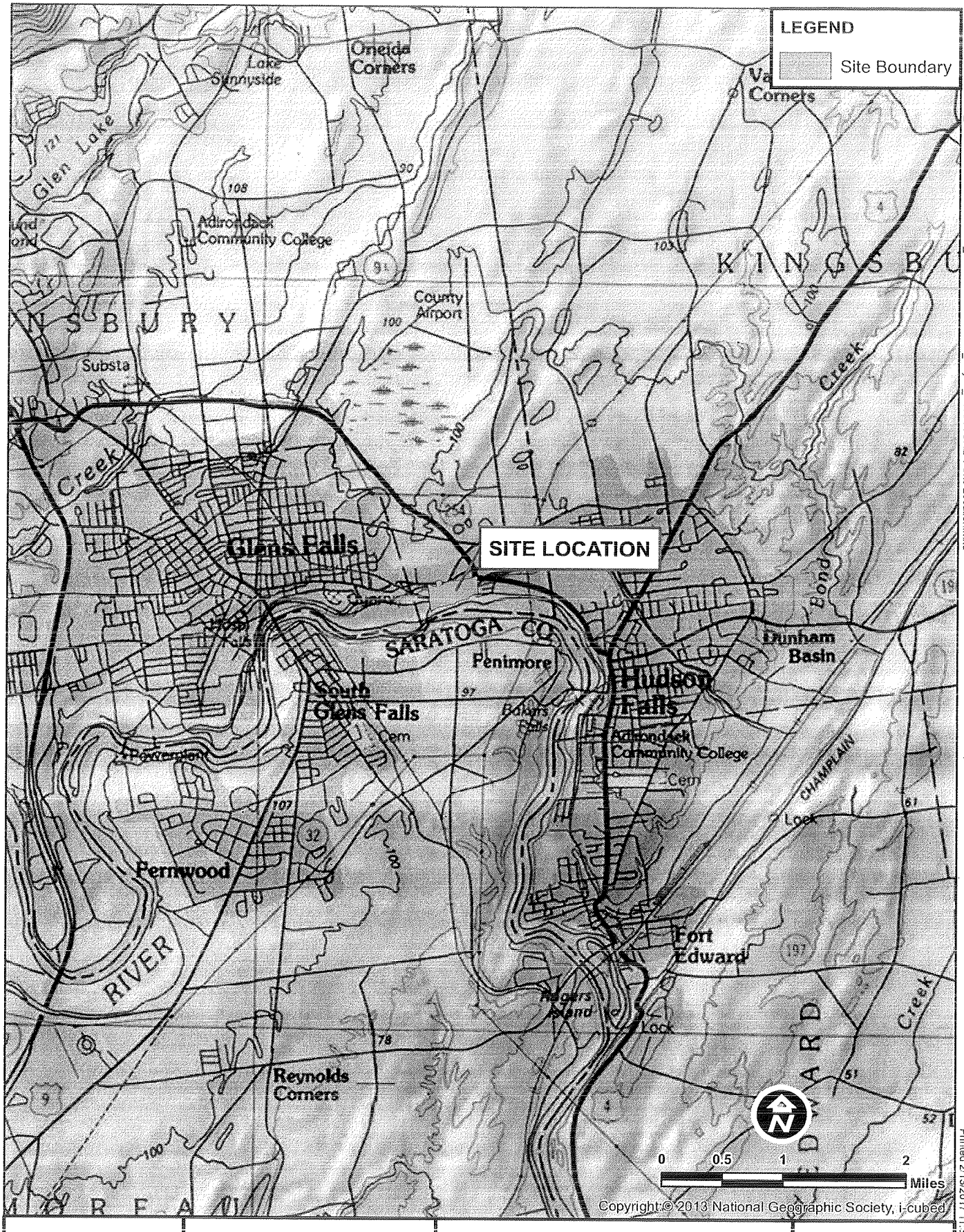
I, Kristin A. VanLandingham, P.E., certify that I am currently a NYS-registered professional engineer and that this *Operations and Maintenance Report* dated February 2020 for the Former Ciba-Geigy Facility located in Queensbury Township, Glens Falls, New York was prepared in accordance with all applicable statutes and regulations, and with DER *Technical Guidance for Site Investigation and Remediation* (DER-10).



Kristin A. VanLandingham, P.E.
NYS License No. 089610

02/28/2020
Date

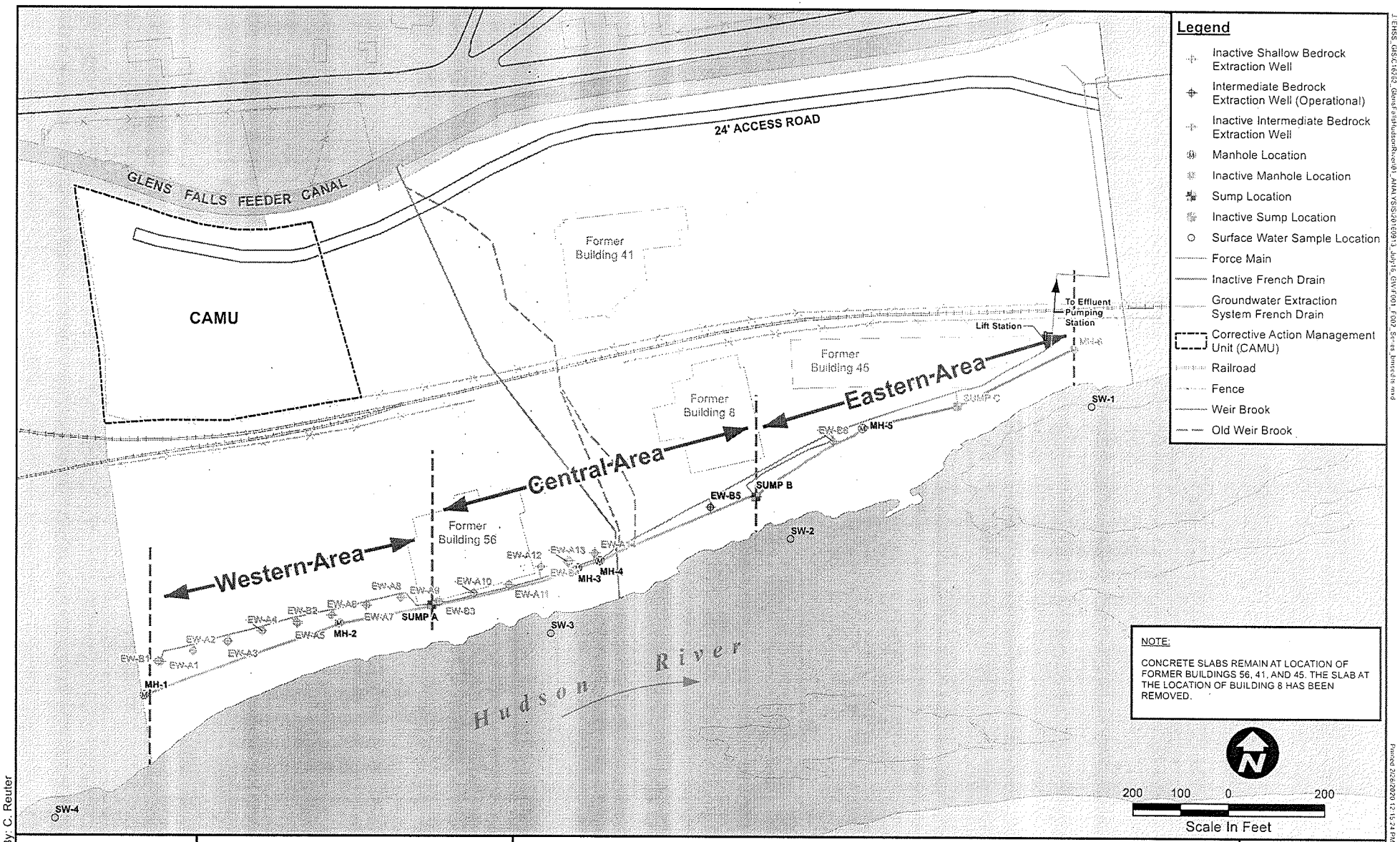
Figures



EHS Support	ASHLAND FORMER CIBA-GEIGY / HERCULES SITE GLENS FALLS, NY	SITE LOCATION	FIGURE 1

D:\EHSS_GIS\IC16262_GlensFallsHudsonRiver\01_ANALYSIS\20160913_July16_GWF\FIGURE 1 Site Location.mxd

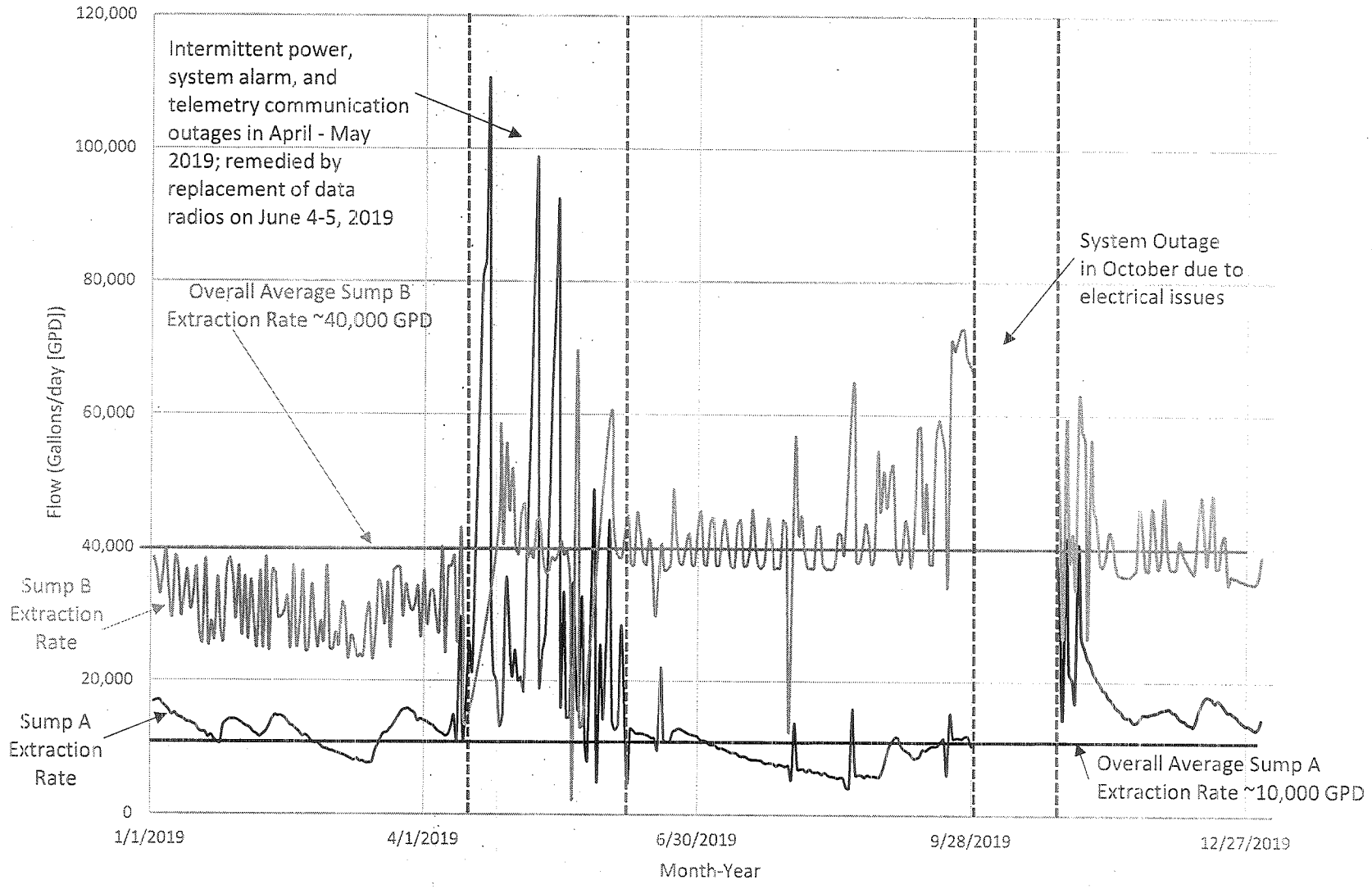
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Reviewed By: C. Reuter

EHS Support	ASHLAND FORMER CIBA-GEIGY / HERCULES SITE GLENS FALLS, NY	SITE FEATURES AND GROUNDWATER EXTRACTION SYSTEM COMPONENTS	FIGURE 2

Figure 3
Daily Extraction Rates -- Sumps A and B



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

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Water & Sewer Department Telephone: [518] 761-3850 • Fax: [518] 761-3862
24 Hr. Water & Sewer Emergencies: [518] 761-3857 • 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 1st, 2018.

Please feel free to contact me with any questions.

Sincerely,

Christopher S. Miller
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

Parameter	Instantaneous Maximum (mg/l)	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	--
pH	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.

**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.

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.

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.)]

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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

Lawrence Glasheen, Chief Operator
Glens Falls WWTP
2 Shermantown Road
Glens Falls 12801
Telephone: (518) 761-3850 ext 112
Telefax: (518) 761-3862
Email: lglasheen@cityofglensfalls.com

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

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

and

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: Steve Gurzler

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

Parameter	Instantaneous Maximum (mg/l)	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	--
pH	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.

**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.

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.

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 Location	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	1/Year	Grab
Mercury (mg/1)	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/l)	See note 1,3	1/Year	Grab
Trichlorophenol (mg/l)	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
pH	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

SECTION 1 - ADDITIONAL/SPECIAL MONITORING REQUIREMENTS.

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. Limitation on Permit Transfer

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. Duty to Reapply

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. Dilution

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) Daily Maximum – 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) Grab Sample – An individual sample collected in less than 15 minutes, without regard for flow or time.

d) Instantaneous Maximum Concentration – The maximum concentration allowed in any single grab sample.

e) Cooling Water –

(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) Weekly Average – The arithmetic mean of the values for effluent samples collected over a period of seven consecutive days.

h) Bi-Weekly – Once every other week.

i) Bi- Monthly – Once every other month

j) Quarterly – The arithmetic mean of the values for effluent samples collected during a calendar quarter.

k) Upset – 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.

l) Bypass – 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.

l) 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 standsrd 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

(2) 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. Automatic Resampling

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. Signatory Requirements

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:

(i) 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 decision-making 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

c) 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 2019 Discharge Monitoring Reports

HERCULES

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

July 3, 2019

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 1st Quarter 2019
Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Glasheen:

Attached is the 1st Quarter 2019 Discharge Monitoring Report for the Hercules/Ciba site. The extended list annual wastewater was collected on March 21, 2019. 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

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

4/29/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
In Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quaterly min.	0.56	0.00	0.0000	0.65	0.00	6.8	29,000
Quartely ave.	0.56	0.00	0.0000	0.65	0.00	7.1	42,400
Quartely max.	0.56	0.00	0.0000	0.65	0.00	7.6	58,000
Data points	1	1	1	1	1	90	90
Date:							
01/01/19						7.4	53,000
01/02/19						7.1	55,000
01/03/19						7.5	51,000
01/04/19						7.3	57,000
01/05/19						7.2	55,000
01/06/19						7.3	42,000
01/07/19						7.2	48,000
01/08/19						7.4	54,000
01/09/19						7.3	44,000
01/10/19						7.5	42,000
01/11/19						7.4	52,000
01/12/19						7.3	51,000
01/13/19						7.4	37,000
01/14/19						7.4	51,000
01/15/19						7.2	43,000
01/16/19						7.1	44,000
01/17/19						7.6	35,000
01/18/19						7.2	49,000
01/19/19						7.4	36,000
01/20/19						7.4	39,000
01/21/19						7.6	35,000
01/22/19						6.9	48,000
01/23/19						7.0	37,000
01/24/19						7.0	35,000
01/25/19						7.5	52,000
01/26/19						6.9	52,000
01/27/19						6.9	44,000
01/28/19						6.9	46,000
01/29/19						6.9	45,000
01/30/19						6.9	45,000
01/31/19						6.9	40,000

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

4/29/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
In Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quaterly min.	0.56	0.00	0.0000	0.65	0.00	6.8	29,000
Quartely ave.	0.56	0.00	0.0000	0.65	0.00	7.1	42,400
Quartely max.	0.56	0.00	0.0000	0.65	0.00	7.6	58,000
Data points	1	1	1	1	1	90	90
Date:							
02/01/19						7.0	44,000
02/02/19						6.9	41,000
02/03/19						6.9	45,000
02/04/19						6.8	36,000
02/05/19						7.1	40,000
02/06/19						7.0	42,000
02/07/19						7.0	47,000
02/08/19						7.1	39,000
02/09/19						7.1	54,000
02/10/19						7.0	46,000
02/11/19						7.0	50,000
02/12/19						7.2	45,000
02/13/19						6.9	39,000
02/14/19						6.9	51,000
02/15/19						7.1	34,000
02/16/19						7.0	52,000
02/17/19						6.9	34,000
02/18/19						6.9	37,000
02/19/19						7.0	53,000
02/20/19						7.0	33,000
02/21/19						7.0	32,000
02/22/19						7.1	38,000
02/23/19						7.4	45,000
02/24/19						7.2	33,000
02/25/19						7.3	37,000
02/26/19						7.1	35,000
02/27/19						7.3	43,000
02/28/19						7.1	37,000

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

4/29/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quaterly min.	0.56	0.00	0.0000	0.65	0.00	6.8	29,000
Quartely ave.	0.56	0.00	0.0000	0.65	0.00	7.1	42,400
Quartely max.	0.56	0.00	0.0000	0.65	0.00	7.6	58,000
Data points	1	1	1	1	1	90	90
Date:							
03/01/19						7.4	32,000
03/02/19						7.4	34,000
03/03/19						7.3	33,000
03/04/19						7.1	33,000
03/05/19						7.2	44,000
03/06/19						7.3	30,000
03/07/19						7.3	34,000
03/08/19						7.3	32,000
03/09/19						7.2	30,000
03/10/19						7.2	29,000
03/11/19						7.2	30,000
03/12/19						7.3	29,000
03/13/19						7.1	34,000
03/14/19						7.1	39,000
03/15/19						7.2	32,000
03/16/19						7.2	49,000
03/17/19						7.3	36,000
03/18/19						7.2	50,000
03/19/19						7.4	36,000
03/20/19						7.3	49,000
03/21/19	0.560	ND	ND	0.650	ND	7.2	39,000
03/22/19						7.1	53,000
03/23/19						7.0	48,000
03/24/19						7.0	44,000
03/25/19						7.0	58,000
03/26/19						7.0	38,000
03/27/19						7.0	56,000
03/28/19						7.0	39,000
03/29/19						7.1	53,000
03/30/19						7.0	42,000
03/31/19						6.9	52,000

Quartely Average for Chromium	
Concentration	0.56 mg/L
Ave. Flow	42,400 gpd
Ave. Load	0.20 #/day
PERMIT	3.10 #/day

Notes:

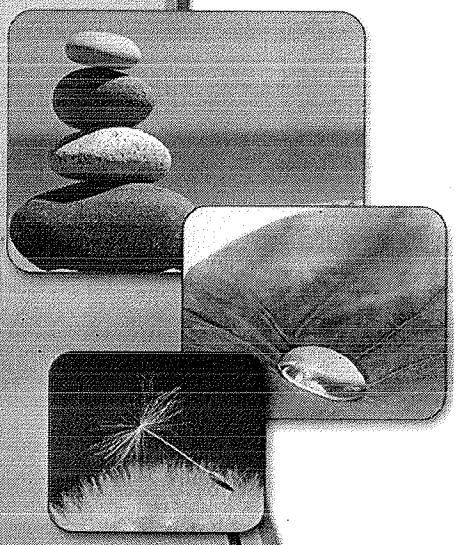
ND = Non-Detect. Value reported to be below the laboratory Reporting Limit.
NS: No Standard. No instantaneous maximum for Total Chromium.
The laboratory Reporting Limit for Lead is 0.0025 mg/L.
The laboratory Reporting Limit for Mercury is 0.00020 mg/l
The laboratory Reporting Limit for Phenols is 0.050 mg/L.

ATTACHMENT 2

ANALYTICAL DATA

TestAmerica

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: 480-150662-1
Client Project/Site: Hercules Glens Falls O&M POTW

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

Attn: Mr. Jim Vondracek

Eddie Barnett

Authorized for release by:
3/31/2019 9:42:30 AM

Eddie Barnett, Project Manager I
(912)250-0280
eddie.barnett@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

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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)

Job ID: 480-150662-1

Laboratory: TestAmerica Buffalo

Narrative

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

Report Number: 480-150662-1

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 03/22/2019; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

TOTAL METALS (ICPMS)
Sample POTW_20190321 (480-150662-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 03/29/2019 and analyzed on 03/30/2019.

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

TOTAL MERCURY
Sample POTW_20190321 (480-150662-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 03/29/2019 and analyzed on 03/30/2019.

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

TOTAL CYANIDE
Sample POTW_20190321 (480-150662-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared on 03/27/2019 and analyzed on 03/28/2019.

Sample POTW_20190321 (480-150662-1)[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_20190321 (480-150662-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 03/28/2019.

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

Detection Summary

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

TestAmerica Job ID: 480-150662-1

Client Sample ID: POTW_20190321

Lab Sample ID: 480-150662-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	560		5.0	1.6	ug/L	1		200.8	Total/NA
Cyanide, Total	0.65		0.10	0.025	mg/L	10		335.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

TestAmerica Job ID: 480-150662-1

Client Sample ID: POTW_20190321

Date Collected: 03/21/19 14:00
Date Received: 03/22/19 01:00

Lab Sample ID: 480-150662-1
Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	560		5.0	1.6	ug/L		03/29/19 08:37	03/30/19 08:03	1
Lead	2.5	U	2.5	0.98	ug/L		03/29/19 08:37	03/30/19 08:03	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		03/29/19 12:56	03/30/19 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.65		0.10	0.025	mg/L		03/27/19 04:32	03/28/19 10:42	10
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		03/28/19 08:00	03/28/19 11:39	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-564247/1-A
Matrix: Water
Analysis Batch: 564398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		03/29/19 08:37	03/30/19 07:13	1
Lead	2.5	U	2.5	0.98	ug/L		03/29/19 08:37	03/30/19 07:13	1

Lab Sample ID: LCS 680-564247/2-A
Matrix: Water
Analysis Batch: 564398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	107		ug/L		107	85 - 115
Lead	500	515		ug/L		103	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-564312/1-A
Matrix: Water
Analysis Batch: 564473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		03/29/19 12:56	03/30/19 11:51	1

Lab Sample ID: LCS 680-564312/2-A
Matrix: Water
Analysis Batch: 564473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.13		ug/L		85	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-563853/1-A
Matrix: Water
Analysis Batch: 564113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0025	mg/L		03/27/19 04:32	03/28/19 08:50	1

Lab Sample ID: LCS 680-563853/2-A
Matrix: Water
Analysis Batch: 564113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0497		mg/L		99	90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-564061/1-A
Matrix: Water
Analysis Batch: 564143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		03/28/19 08:00	03/28/19 11:39	1

Lab Sample ID: LCS 680-564061/2-A
Matrix: Water
Analysis Batch: 564143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0964		mg/L		96	75 - 125

Lab Sample ID: 480-150662-1 MS
Matrix: Water
Analysis Batch: 564143

Client Sample ID: POTW_20190321
Prep Type: Total/NA
Prep Batch: 564061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.050	U	0.100	0.0910		mg/L		91	75 - 125

Lab Sample ID: 480-150662-1 MSD
Matrix: Water
Analysis Batch: 564143

Client Sample ID: POTW_20190321
Prep Type: Total/NA
Prep Batch: 564061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenolics, Total Recoverable	0.050	U	0.100	0.0845		mg/L		85	75 - 125	7	30

QC Association Summary

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

TestAmerica Job ID: 480-150662-1

Metals

Prep Batch: 564247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	200.8	
MB 680-564247/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-564247/2-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 564312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	245.1	
MB 680-564312/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-564312/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 564398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	200.8	564247
MB 680-564247/1-A	Method Blank	Total/NA	Water	200.8	564247
LCS 680-564247/2-A	Lab Control Sample	Total/NA	Water	200.8	564247

Analysis Batch: 564473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	245.1	564312
MB 680-564312/1-A	Method Blank	Total/NA	Water	245.1	564312
LCS 680-564312/2-A	Lab Control Sample	Total/NA	Water	245.1	564312

General Chemistry

Prep Batch: 563853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	Distill/CN	
MB 680-563853/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-563853/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Prep Batch: 564061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	Distill/Phenol	
MB 680-564061/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-564061/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
480-150662-1 MS	POTW_20190321	Total/NA	Water	Distill/Phenol	
480-150662-1 MSD	POTW_20190321	Total/NA	Water	Distill/Phenol	

Analysis Batch: 564113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	335.4	563853
MB 680-563853/1-A	Method Blank	Total/NA	Water	335.4	563853
LCS 680-563853/2-A	Lab Control Sample	Total/NA	Water	335.4	563853

Analysis Batch: 564143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1	POTW_20190321	Total/NA	Water	420.1	564061
MB 680-564061/1-A	Method Blank	Total/NA	Water	420.1	564061
LCS 680-564061/2-A	Lab Control Sample	Total/NA	Water	420.1	564061
480-150662-1 MS	POTW_20190321	Total/NA	Water	420.1	564061

General Chemistry (Continued)

Analysis Batch: 564143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150662-1 MSD	POTW_20190321	Total/NA	Water	420.1	564061

Lab Chronicle

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

TestAmerica Job ID: 480-150662-1

Client Sample ID: POTW_20190321

Date Collected: 03/21/19 14:00
Date Received: 03/22/19 01:00

Lab Sample ID: 480-150662-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			564247	03/29/19 08:37	AJR	TAL SAV
Total/NA	Analysis	200.8		1	564398	03/30/19 08:03	BWR	TAL SAV
Total/NA	Prep	245.1			564312	03/29/19 12:56	PEP	TAL SAV
Total/NA	Analysis	245.1		1	564473	03/30/19 16:32	PEP	TAL SAV
Total/NA	Prep	Distill/CN			563853	03/27/19 04:32	DAM	TAL SAV
Total/NA	Analysis	335.4		10	564113	03/28/19 10:42	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			564061	03/28/19 08:00	NVF	TAL SAV
Total/NA	Analysis	420.1		1	564143	03/28/19 11:39	NVF	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: 480-150662-1
Project/Site: Hercules Glens Falls O&M 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	03-31-19 *

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	04-01-19

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

Method Summary

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

TestAmerica Job ID: 480-150662-1

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
200.8	Preparation, Total Metals	EPA	TAL SAV
245.1	Preparation, Mercury	EPA	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	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.

None = None

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 POTW

TestAmerica Job ID: 480-150662-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150662-1	POTW_20190321	Water	03/21/19 14:00	03/22/19 01:00

TestAmerica Savannah
5102 LaRoche Avenue
681-Atlanta
Savannah, GA 31404
Phone: 912.354.7858 Fax:

Albany

Chain of Custody Record

263417

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

#224

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Cody Hunt	Site Contact: Summit Creek	Date:	COC No:
Company Name: Antea Group	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 500 Summit Lake Dr.	Analysis Turnaround Time			Sampler:
City/State/Zip: Valhalla, NY 10595	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 914-495-9933	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Ashland Glens Falls Quarterly POTW	☐ 1 week			Job / SDG No.:
Site: Glens Falls	☐ 2 days			
PO #	☐ 1 day			

480-150662 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	200.7 / 6010A 3145/1	9012A - Cyanide, Total	335.4 - Cyanide, Total	Sample Specific Notes:
POTW_20190321	3/21/19	1400	G	water	3	N	N	X	X	X	
KZ	3/21/19	1710									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
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.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.:
Relinquished by:	Company: Antea Group	Date/Time: 3/21/19 1710	Received by:	Company: TA	Date/Time: 3/21/19 1710
Relinquished by:	Company: TA	Date/Time: 3/21/19 1800	Received by:	Company:	Date/Time: 03/22/19 0100
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2.0 #1

Page 15 of 18

2/3/2019

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Barnett, Eddie T	Carrier Tracking No(s):	COC No: 480-48496.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: eddie.barnett@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-150662-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 4/3/2019			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Hercules Glens Falls O&M POTW	Project #: 68000956			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, Ssolid, Oowaste/oil, BTeTissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	335.4/Distill_CN Cyanide, Total	200.8_CWA/200.8_P_TOT Chromium & Lead	420.1/Distill_Phenol Phenolics, Total Recoverable	245.1/245.1_Prep Mercury (CVAA)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X					X	
POTW_20190321 (480-150662-1)	3/21/19	14:00 Eastern		Water			X	X	X	X	3	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Note: Since laboratory accreditations 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 currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other 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 compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-25-19 1345			3-26-19 0858	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.9/2.0

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 480-150662-1

Login Number: 150662
List Number: 1
Creator: Velickovic, Zoran

List Source: TestAmerica Buffalo

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 480-150662-1

Login Number: 150662
List Number: 2
Creator: Nobles, Terry G

List Source: TestAmerica Savannah
List Creation: 03/26/19 12:58 PM

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?	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	

HERCULES

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

July 26, 2019

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 2019
Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Glasheen:

Attached is the 2nd Quarter 2019 Discharge Monitoring Report for the Hercules/Ciba site. The extended list annual wastewater was collected on June 24, 2019. 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

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

7/26/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quarterly min	0.37	0.01	0.00	0.50	0.00	6.7	5,000
Quarterly ave	0.37	0.01	0.00	0.50	0.00	6.9	51,044
Quarterly max	0.37	0.01	0.00	0.50	0.00	7.1	118,000
Data points	1	1	1	1	1	91	91
Date:							
04/01/19						6.9	36,000
04/02/19						7.1	52,000
04/03/19						6.9	39,000
04/04/19						7.0	49,000
04/05/19						7.0	38,000
04/06/19						6.9	53,000
04/07/19						7.0	35,000
04/08/19						6.8	49,000
04/09/19						7.0	49,000
04/10/19						6.9	51,000
04/11/19						7.0	41,000
04/12/19						7.1	64,000
04/13/19						6.9	42,000
04/14/19						6.9	31,000
04/15/19						6.9	23,000
04/16/19						7.1	118,000
04/17/19						7.1	75,000
04/18/19						7.0	67,000
04/19/19						7.0	58,000
04/20/19						6.9	5,000
04/21/19						6.9	26,000
04/22/19						6.9	32,000
04/23/19						7.0	21,000
04/24/19						6.9	54,000
04/25/19						7.0	85,000
04/26/19						7.0	56,000
04/27/19						7.0	93,000
04/28/19						7.0	78,000
04/29/19						6.9	80,000
04/30/19						6.9	71,000

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

7/26/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quarterly min	0.37	0.01	0.00	0.50	0.00	6.7	5,000
Quarterly ave	0.37	0.01	0.00	0.50	0.00	6.9	51,044
Quarterly max	0.37	0.01	0.00	0.50	0.00	7.1	118,000
Data points	1	1	1	1	1	91	91
Date:							
05/01/19						6.9	64,000
05/02/19						7.0	64,000
05/03/19						7.0	66,000
05/04/19						6.9	66,000
05/05/19						6.9	56,000
05/06/19						6.8	59,000
05/07/19						6.9	54,000
05/08/19						6.9	63,000
05/09/19						7.0	45,000
05/10/19						7.0	70,000
05/11/19						6.9	51,000
05/12/19						6.9	53,000
05/13/19						6.9	53,000
05/14/19						7.0	50,000
05/15/19						7.0	57,000
05/16/19						7.0	51,000
05/17/19						7.0	58,000
05/18/19						6.9	37,000
05/19/19						6.8	20,000
05/20/19						7.0	94,000
05/21/19						6.9	54,000
05/22/19						7.0	29,000
05/23/19						6.9	11,000
05/24/19						6.9	11,000
05/25/19						7.0	23,000
05/26/19						6.8	11,000
05/27/19						6.8	8,000
05/28/19						6.9	96,000
05/29/19						6.8	27,000
05/30/19						6.9	9,000
05/31/19						6.8	77,000

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

7/26/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quarterly min	0.37	0.01	0.00	0.50	0.00	6.7	5,000
Quarterly ave	0.37	0.01	0.00	0.50	0.00	6.9	51,044
Quarterly max	0.37	0.01	0.00	0.50	0.00	7.1	118,000
Data points	1	1	1	1	1	91	91
Date:							
06/01/19						6.9	61,000
06/02/19						6.8	56,000
06/03/19						6.9	58,000
06/04/19						6.8	52,000
06/05/19						6.9	55,000
06/06/19						6.8	57,000
06/07/19						6.9	57,000
06/08/19						6.8	49,000
06/09/19						6.8	52,000
06/10/19						6.7	55,000
06/11/19						6.8	56,000
06/12/19						6.7	49,000
06/13/19						6.9	48,000
06/14/19						6.8	51,000
06/15/19						6.8	46,000
06/16/19						6.8	44,000
06/17/19						6.8	56,000
06/18/19						6.8	50,000
06/19/19						6.9	48,000
06/20/19						6.7	49,000
06/21/19						6.8	56,000
06/22/19						7.0	61,000
06/23/19						7.0	52,000
06/24/19	0.370	0.007 J	ND	0.500	ND	6.7	49,000
06/25/19						6.8	56,000
06/26/19						7.0	56,000
06/27/19						6.9	54,000
06/28/19						7.1	48,000
06/29/19						6.9	49,000
06/30/19						7.0	57,000

Quarterly Average for Chromium	
Concentration	0.37 mg/L
Ave. Flow	51,044 gpd
Ave. Load	0.16 #/day
PERMIT	3.10 #/day

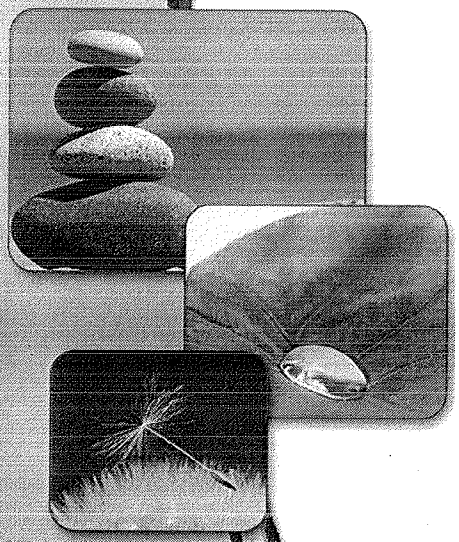
Notes:

ND = Non-Detect. Value reported to be below the laboratory Reporting Limit.
NS: No Standard. No instantaneous maximum for Total Chromium.
J: Lab estimated value
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

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

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

Laboratory Job ID: 680-170881-1
Client Project/Site: Hercules Glens Falls O&M POTW

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

Attn: Mr. Jim Vondracek

Eddie Barnett

Authorized for release by:
7/11/2019 10:30:33 AM

Eddie Barnett, Project Manager I
(912)250-0280
eddie.barnett@testamericainc.com

LINKS

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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
Job ID: 680-170881-1
Project/Site: Hercules Glens Falls O&M POTW

Qualifiers

Metals

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.
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)

Sample Summary

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

Job ID: 680-170881-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-170881-1	POTW_20190624	Water	06/24/19 14:35	06/26/19 09:00	

Job ID: 680-170881-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

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

Report Number: 680-170881-1

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 06/26/2019; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.5° C.

TOTAL METALS (ICPMS)
Sample POTW_20190624 (680-170881-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 07/08/2019 and analyzed on 07/10/2019.

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

TOTAL MERCURY
Sample POTW_20190624 (680-170881-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 06/28/2019 and analyzed on 07/09/2019.

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

TOTAL CYANIDE
Sample POTW_20190624 (680-170881-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 07/03/2019.

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

PHENOLS
Sample POTW_20190624 (680-170881-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 06/26/2019.

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

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

Job ID: 680-170881-1

Client Sample ID: POTW_20190624

Date Collected: 06/24/19 14:35
Date Received: 06/26/19 09:00

Lab Sample ID: 680-170881-1

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	370		5.0	1.6	ug/L		07/08/19 13:34	07/10/19 18:55	1
Lead	2.0	J	2.5	0.98	ug/L		07/08/19 13:34	07/10/19 18:55	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		06/28/19 12:06	07/09/19 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50		0.010	0.0025	mg/L		07/03/19 17:54	07/03/19 19:25	1
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		06/26/19 14:17	06/26/19 18:25	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-577106/1-A
Matrix: Water
Analysis Batch: 577566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		07/08/19 13:34	07/10/19 18:27	1
Lead	2.5	U	2.5	0.98	ug/L		07/08/19 13:34	07/10/19 18:27	1

Lab Sample ID: LCS 680-577106/2-A
Matrix: Water
Analysis Batch: 577566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	97.5		ug/L		98	85 - 115
Lead	500	512		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-576216/13-A
Matrix: Water
Analysis Batch: 577326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		06/28/19 12:06	07/03/19 13:40	1

Lab Sample ID: LCS 680-576216/14-A
Matrix: Water
Analysis Batch: 577326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.51		ug/L		101	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-576900/1-A
Matrix: Water
Analysis Batch: 576914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0025	mg/L		07/03/19 17:54	07/03/19 19:03	1

Lab Sample ID: LCS 680-576900/2-A
Matrix: Water
Analysis Batch: 576914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0521		mg/L		104	90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-575844/1-A
Matrix: Water
Analysis Batch: 575909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		06/26/19 14:17	06/26/19 18:25	1

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: LCS 680-575844/2-A
Matrix: Water
Analysis Batch: 575909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.107		mg/L		107	75 - 125

Lab Sample ID: 680-170881-1 MS
Matrix: Water
Analysis Batch: 575909

Client Sample ID: POTW_20190624
Prep Type: Total/NA
Prep Batch: 575844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.050	U	0.100	0.0999		mg/L		100	75 - 125

Lab Sample ID: 680-170881-1 MSD
Matrix: Water
Analysis Batch: 575909

Client Sample ID: POTW_20190624
Prep Type: Total/NA
Prep Batch: 575844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenolics, Total Recoverable	0.050	U	0.100	0.0971		mg/L		97	75 - 125	3	30

QC Association Summary

Client: Ashland LLC
Job ID: 680-170881-1
Project/Site: Hercules Glens Falls O&M POTW

Metals

Prep Batch: 576216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	245.1	
MB 680-576216/13-A	Method Blank	Total/NA	Water	245.1	
LCS 680-576216/14-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 577106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	200.8	
MB 680-577106/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-577106/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 577326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-576216/13-A	Method Blank	Total/NA	Water	245.1	576216
LCS 680-576216/14-A	Lab Control Sample	Total/NA	Water	245.1	576216

Analysis Batch: 577327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	245.1	576216

Analysis Batch: 577566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	200.8	577106
MB 680-577106/1-A	Method Blank	Total/NA	Water	200.8	577106
LCS 680-577106/2-A	Lab Control Sample	Total/NA	Water	200.8	577106

General Chemistry

Prep Batch: 575844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	Distill/Phenol	
MB 680-575844/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-575844/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
680-170881-1 MS	POTW_20190624	Total/NA	Water	Distill/Phenol	
680-170881-1 MSD	POTW_20190624	Total/NA	Water	Distill/Phenol	

Analysis Batch: 575909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	420.1	575844
MB 680-575844/1-A	Method Blank	Total/NA	Water	420.1	575844
LCS 680-575844/2-A	Lab Control Sample	Total/NA	Water	420.1	575844
680-170881-1 MS	POTW_20190624	Total/NA	Water	420.1	575844
680-170881-1 MSD	POTW_20190624	Total/NA	Water	420.1	575844

Prep Batch: 576900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	Distill/CN	
MB 680-576900/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-576900/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

General Chemistry

Analysis Batch: 576914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170881-1	POTW_20190624	Total/NA	Water	335.4	576900
MB 680-576900/1-A	Method Blank	Total/NA	Water	335.4	576900
LCS 680-576900/2-A	Lab Control Sample	Total/NA	Water	335.4	576900

Lab Chronicle

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

Job ID: 680-170881-1

Client Sample ID: POTW_20190624

Date Collected: 06/24/19 14:35
Date Received: 06/26/19 09:00

Lab Sample ID: 680-170881-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			577106	07/08/19 13:34	AJR	TAL SAV
Total/NA	Analysis	200.8		1	577566	07/10/19 18:55	BJB	TAL SAV
Total/NA	Prep	245.1			576216	06/28/19 12:06	DB	TAL SAV
Total/NA	Analysis	245.1		1	577327	07/09/19 12:46	BCB	TAL SAV
Total/NA	Prep	Distill/CN			576900	07/03/19 17:54	MDF	TAL SAV
Total/NA	Analysis	335.4		1	576914	07/03/19 19:25	ALG	TAL SAV
Total/NA	Prep	Distill/Phenol			575844	06/26/19 14:17	NVF	TAL SAV
Total/NA	Analysis	420.1		1	575909	06/26/19 18:25	NVF	TAL SAV

Laboratory References:

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

Accreditation/Certification Summary

Client: Ashland LLC
Job ID: 680-170881-1
Project/Site: Hercules Glens Falls O&M POTW

Laboratory: Eurofins 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
New York	NELAP	2	10842	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
245.1	245.1	Water	Mercury

Method Summary

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

Job ID: 680-170881-1

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
200.8	Preparation, Total Metals	EPA	TAL SAV
245.1	Preparation, Mercury	EPA	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	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.

None = None

Laboratory References:

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

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912.354.7858 Fax:

691-Atlanta

Albany Chain of Custody Record #224

263809

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Cody Hume	Site Contact: Garreth Crowe	Date:	COC No.
Company Name: Anton Group	Tel/Fax:	Lab Contact: SF	Carrier:	1 of 1 COCs
Address: 580 Summit Lake Dr.	Analysis Turnaround Time			Sampler:
City/State/Zip: Valhalla, NY 10595	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 914-495-9932	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Ashland Glens Falls Quarterly POTW	☐ 1 week			
Site: Glens Falls	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	200.8 CWA-Chromium Lead	245.1 - Mercury	9012 - Cyanide, Total Reactive	335.4 - Cyanide, Total	Sample Specific Notes
POTW_20190624	6/24/19	1435	G	GW	3	N	N	X	X	X		

NK 6/25/19

Page 13 of 14

660-170881 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
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.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.4/1.5

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Anton Group	Date/Time: 6/25/19 850	Received by: Karl Zoeller	Company: TA	Date/Time: 6/25/19 0850
Relinquished by: Karl Zoeller	Company: TA 6/25/19	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Tamara K	Company:	Date/Time: 6/26/19 0900

7/11/2019

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 680-170881-1

Login Number: 170881
List Number: 1
Creator: Laughlin, Paul D

List Source: Eurofins TestAmerica, Savannah

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?	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	

HERCULES

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

November 12, 2019

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 2019
Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Glasheen:

Attached is the 3rd Quarter 2019 Discharge Monitoring Report for the Hercules/Ciba site. The extended list annual wastewater was collected on September 24, 2019. 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

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

11/12/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quarterly min	0.37	0.01	0.00	0.50	0.00	6.7	5,000
Quarterly ave	0.37	0.01	0.00	0.50	0.00	6.9	51,044
Quarterly max	0.37	0.01	0.00	0.50	0.00	7.1	118,000
Data points	1	1	1	1	1	91	91

Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quarterly min	0.30	0.00	0.00	0.48	0.05	6.56	52,000
Quarterly ave	0.30	0.00	0.00	0.48	0.05	6.84	51,489
Quarterly max	0.30	0.00	0.00	0.48	0.05	7.01	155,000
Data points	1	1	1	1	1	92	92
Date:							
07/01/19						6.9	0
07/02/19						6.9	54,000
07/03/19						6.9	48,000
07/04/19						6.8	48,000
07/05/19						6.9	54,000
07/06/19						6.7	53,000
07/07/19						6.9	46,000
07/08/19						6.8	48,000
07/09/19						6.9	51,000
07/10/19						7.0	54,000
07/11/19						6.9	49,000
07/12/19						6.8	46,000
07/13/19						6.9	46,000
07/14/19						7.0	53,000
07/15/19						6.8	52,000
07/16/19						6.9	46,000
07/17/19						6.8	45,000
07/18/19						6.9	51,000
07/19/19						6.9	53,000
07/20/19						6.8	47,000
07/21/19						6.7	43,000
07/22/19						6.6	44,000
07/23/19						6.9	48,000
07/24/19						6.9	51,000
07/25/19						7.0	51,000
07/26/19						6.9	44,000
07/27/19						6.8	45,000
07/28/19						6.8	46,000
07/29/19						6.8	51,000
07/30/19						6.9	24,000
07/31/19						6.9	36,000

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

11/12/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quarterly min	0.37	0.01	0.00	0.50	0.00	6.7	5,000
Quarterly ave	0.37	0.01	0.00	0.50	0.00	6.9	51,044
Quarterly max	0.37	0.01	0.00	0.50	0.00	7.1	118,000
Data points	1	1	1	1	1	91	91
Date:							
08/01/19						7.0	75,000
08/02/19						7.0	46,000
08/03/19						7.0	49,000
08/04/19						6.7	50,000
08/05/19						6.9	48,000
08/06/19						6.9	43,000
08/07/19						6.7	44,000
08/08/19						6.8	44,000
08/09/19						6.9	49,000
08/10/19						6.8	50,000
08/11/19						6.8	46,000
08/12/19						6.8	44,000
08/13/19						7.0	42,000
08/14/19						6.8	43,000
08/15/19						7.0	44,000
08/16/19						6.9	47,000
08/17/19						6.8	48,000
08/18/19						6.8	34,000
08/19/19						6.9	0
08/20/19						7.0	81,000
08/21/19						6.9	45,000
08/22/19						6.9	44,000
08/23/19						6.9	44,000
08/24/19						6.9	46,000
08/25/19						6.8	49,000
08/26/19						6.9	50,000
08/27/19						6.8	45,000
08/28/19						7.0	60,000
08/29/19						6.8	50,000
08/30/19						6.9	64,000
08/31/19						6.9	52,000

GLENS FALLS PRETREATED DISCHARGE TO POTW QUALITY DATA

11/12/2019

LOCATION:	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW-CG Sampler	POTW Meter	POTW 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 Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Chilled		
	Total Chromium	**Total Lead**	**Total Mercury**	**Total Cyanide**	**Total Phenols**	**Compliance Point**	**Compliance Point**
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpd
POTW Permit or min						5.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quaterly ave.			0.005				175,000
Compliance	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Quarterly min	0.37	0.01	0.00	0.50	0.00	6.7	5,000
Quarterly ave	0.37	0.01	0.00	0.50	0.00	6.9	51,044
Quarterly max	0.37	0.01	0.00	0.50	0.00	7.1	118,000
Data points	1	1	1	1	1	91	91
Date:							
09/01/19						6.8	66,000
09/02/19						6.7	56,000
09/03/19						6.8	60,000
09/04/19						6.8	50,000
09/05/19						7.0	47,000
09/06/19						6.6	50,000
09/07/19						6.7	52,000
09/08/19						6.8	51,000
09/09/19						6.8	50,000
09/10/19						6.8	71,000
09/11/19						6.9	65,000
09/12/19						6.8	54,000
09/13/19						7.0	55,000
09/14/19						6.6	155,000
09/15/19						6.8	-52,000
09/16/19						6.6	68,000
09/17/19						6.9	64,000
09/18/19						6.9	70,000
09/19/19						6.8	69,000
09/20/19						6.8	37,000
09/21/19						6.8	92,000
09/22/19						6.7	90,000
09/23/19						6.6	84,000
09/24/19	0.300	0.0025	0.0002	0.48	0.05	6.8	87,000
09/25/19						6.9	89,000
09/26/19						6.9	85,000
09/27/19						6.9	82,000
09/28/19						6.8	82,000
09/29/19						7.0	5,000
09/30/19						6.8	0

Monthly Average for Chromium	
Concentration	0.30 mg/L
Ave. Flow	51,489 gpd
Ave. Load	0.13 #/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.
The laboratory Reporting Limit for Phenols is 0.050 mg/L.

ATTACHMENT 2

ANALYTICAL DATA

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 680-174539-1
Client Project/Site: Hercules Glens Falls O&M POTW

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

Attn: Mr. Jim Vondracek

Authorized for release by:
10/9/2019 9:24:20 AM

Eddie Barnett, Project Manager I
(912)250-0280
eddie.barnett@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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 POTW

Job ID: 680-174539-1

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)

Sample Summary

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

Job ID: 680-174539-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-174539-1	POTW_20190924	Water	09/24/19 14:15	09/25/19 09:25	

Job ID: 680-174539-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

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

Report Number: 680-174539-1

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 09/25/2019; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.8° C.

TOTAL METALS (ICPMS)

Sample POTW_20190924 (680-174539-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 09/30/2019 and analyzed on 10/01/2019.

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

TOTAL MERCURY

Sample POTW_20190924 (680-174539-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 09/26/2019 and analyzed on 09/27/2019.

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

TOTAL CYANIDE

Sample POTW_20190924 (680-174539-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 10/08/2019.

Sample POTW_20190924 (680-174539-1)[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_20190924 (680-174539-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared on 10/01/2019 and analyzed on 10/02/2019.

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

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

Job ID: 680-174539-1

Client Sample ID: POTW_20190924
Date Collected: 09/24/19 14:15
Date Received: 09/25/19 09:25

Lab Sample ID: 680-174539-1
Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	300		5.0	1.6	ug/L		09/30/19 11:41	10/01/19 15:50	1
Lead	2.5	U	2.5	0.98	ug/L		09/30/19 11:41	10/01/19 15:50	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		09/26/19 18:34	09/27/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.48		0.10	0.025	mg/L		10/08/19 11:43	10/08/19 16:08	10
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		10/01/19 09:54	10/02/19 12:14	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-588430/1-A
Matrix: Water
Analysis Batch: 588833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		09/30/19 11:41	10/01/19 15:20	1
Lead	2.5	U	2.5	0.98	ug/L		09/30/19 11:41	10/01/19 15:20	1

Lab Sample ID: MB 680-588430/1-A
Matrix: Water
Analysis Batch: 588983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	1.6	ug/L		09/30/19 11:41	10/02/19 23:30	1
Lead	2.5	U	2.5	0.98	ug/L		09/30/19 11:41	10/02/19 23:30	1

Lab Sample ID: LCS 680-588430/2-A
Matrix: Water
Analysis Batch: 588833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	115		ug/L		115	85 - 115
Lead	500	553		ug/L		111	85 - 115

Lab Sample ID: LCS 680-588430/2-A
Matrix: Water
Analysis Batch: 588983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	112		ug/L		112	85 - 115
Lead	500	535		ug/L		107	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-588016/1-A
Matrix: Water
Analysis Batch: 588255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		09/26/19 18:34	09/27/19 13:43	1

Lab Sample ID: LCS 680-588016/2-A
Matrix: Water
Analysis Batch: 588255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.42		ug/L		97	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-589871/1-A
Matrix: Water
Analysis Batch: 589937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0025	mg/L		10/08/19 11:43	10/08/19 15:58	1

Lab Sample ID: LCS 680-589871/2-A
Matrix: Water
Analysis Batch: 589937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0535		mg/L		107	90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-588592/1-A
Matrix: Water
Analysis Batch: 588925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		10/01/19 09:54	10/02/19 12:14	1

Lab Sample ID: LCS 680-588592/2-A
Matrix: Water
Analysis Batch: 588925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.100		mg/L		100	75 - 125

Metals

Prep Batch: 588016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	245.1	
MB 680-588016/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-588016/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 588255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	245.1	588016
MB 680-588016/1-A	Method Blank	Total/NA	Water	245.1	588016
LCS 680-588016/2-A	Lab Control Sample	Total/NA	Water	245.1	588016

Prep Batch: 588430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	200.8	
MB 680-588430/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-588430/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 588833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	200.8	588430
MB 680-588430/1-A	Method Blank	Total/NA	Water	200.8	588430
LCS 680-588430/2-A	Lab Control Sample	Total/NA	Water	200.8	588430

Analysis Batch: 588983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-588430/1-A	Method Blank	Total/NA	Water	200.8	588430
LCS 680-588430/2-A	Lab Control Sample	Total/NA	Water	200.8	588430

General Chemistry

Prep Batch: 588592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	Distill/Phenol	
MB 680-588592/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-588592/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 588925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	420.1	588592
MB 680-588592/1-A	Method Blank	Total/NA	Water	420.1	588592
LCS 680-588592/2-A	Lab Control Sample	Total/NA	Water	420.1	588592

Prep Batch: 589871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	Distill/CN	
MB 680-589871/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-589871/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 589937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174539-1	POTW_20190924	Total/NA	Water	335.4	589871
MB 680-589871/1-A	Method Blank	Total/NA	Water	335.4	589871

General Chemistry (Continued)

Analysis Batch: 589937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-589871/2-A	Lab Control Sample	Total/NA	Water	335.4	589871

Lab Chronicle

Client: Ashland LLC
Job ID: 680-174539-1
Project/Site: Hercules Glens Falls O&M POTW

Client Sample ID: POTW_20190924
Lab Sample ID: 680-174539-1
Date Collected: 09/24/19 14:15
Matrix: Water
Date Received: 09/25/19 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			588430	09/30/19 11:41	BCB	TAL SAV
Total/NA	Analysis	200.8		1	588833	10/01/19 15:50	BWR	TAL SAV
Total/NA	Prep	245.1			588016	09/26/19 18:34	DB	TAL SAV
Total/NA	Analysis	245.1		1	588255	09/27/19 14:11	BCB	TAL SAV
Total/NA	Prep	Distill/CN			589871	10/08/19 11:43	JER	TAL SAV
Total/NA	Analysis	335.4		10	589937	10/08/19 16:08	JER	TAL SAV
Total/NA	Prep	Distill/Phenol			588592	10/01/19 09:54	SM	TAL SAV
Total/NA	Analysis	420.1		1	588925	10/02/19 12:14	SM	TAL SAV

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

Accreditation/Certification Summary

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

Job ID: 680-174539-1

Laboratory: Eurofins TestAmerica, Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10842	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
245.1	245.1	Water	Mercury

Method Summary

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

Job ID: 680-174539-1

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
200.8	Preparation, Total Metals	EPA	TAL SAV
245.1	Preparation, Mercury	EPA	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	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.
None = None

Laboratory References:

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

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912.354.7858 Fax:

Albany

Chain of Custody Record

264033

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

#224 Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Cody Hume	Site Contact: Garrett Cox	Date:	COC No: 1 of 1 COCs
Company Name: Anteon Group	Tel/Fax:	Lab Contact:	Carrier:	Sampler:
Address: 500 Summit Lake Dr	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: Valhalla, NY 10595	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
Phone: 914-495-6932	TAT if different from Below STD			Lab Sampling:
Fax:	☐ 2 weeks			
Project Name: Ashland Glens Falls Quarterly POTW	☐ 1 week			Job / SDG No.:
Site: Glens Falls	☐ 2 days			
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	200.8_CWA Chromium-Hex	245.1-Mercury	4500_Cyanide, Total	335.4-Cyanide, Total	Sample Specific Notes:
POTW_20190924	9/24/19	1415	G	GW	3	N	N	X	X	X	X	
RQ	9/24/19											

680-174539 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
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.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

5.9/5.8

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company: Anteon Group	Date/Time: 9/24/19 1540	Received by:	Company: ETA	Date/Time: 9/24/19 1540
Relinquished by:	Company: ETA 1700	Date/Time: 9/24/19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 9.25.19 0925

Page 13 of 14

10/9/2019

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 680-174539-1

Login Number: 174539
List Number: 1
Creator: Laughlin, Paul D

List Source: Eurofins TestAmerica, Savannah

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

HERCULES

Hercules LLC
A wholly owned subsidia
Ashland, LLC
Ashland LLC. - EH&S - D
5200 Blazer Parkway
Dublin, Ohio 43017

January 27, 2020

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 2019 for 4
Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Glasheen:

Attached is the Quarter 4 2019 Discharge Monitoring Report f
wastewater was collected on December 11, 2019. All
parameter list sampled annually, meet the limits of
April 23, 2007 which was subsequently renewed in Apri

I certify under penalty of law that this document a
direction or supervision in accordance with a system
properly gather and evaluate the information submitt
persons who manage the system, or those persons di
information, the information submitted is, to the be
and complete. I am aware that there are significant
including the possibility of fine and imprisonment fo

If you have any questions, please contact me at (614)

Sincerely,

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

Attachments
cc: Stephen BKA SFHaCvdripkoration, Toms River, NJ

ATTACHMENT 1

DISCHARGE DATA

TABLE 1 GLENS FALLS PRETREATED DISCHARGE TO POTW / QUARTERLY

LOCATION:	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POT
ANALYZEI	Test America	Test America	Test America	Test America	Test America	Test
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 42	
PRESERVED:	Acid Chilled	Acid Chilled	Acid Chilled	NaOH Chilled		Ch
	Tot Chrom	Tot Lea	Tot Merc	Tot Cyan	Tot Phen	Compli Poi	Compli Poi	
Units:	mg/l	mg/l	mg/l	mg/l	mg/l		pH
POTW Permit or min							6.0	
Daily max.	NS	0.8	0.025	3.0		5.0		9.
Quaterly ave.		0.005					175,000	
Compli	Ye	Ye	Ye	Ye	Ye	Ye	Ye	
Quarterly min	0.38	0.003	0.0002	0.45		0.05		
Quarterly ave	0.38	0.003	0.0002	0.45		0.05		
Quarterly max	0.38	0.003	0.0002	0.45		0.05		
Data points	1	1	1	1		92		

Date:		
10/01/19	6.9	0
10/02/19	6.9	13,(
10/03/19	6.9	0
10/04/19	6.7	0
10/05/19	6.8	0
10/06/19	6.8	0
10/07/19	6.7	0
10/08/19	6.8	0
10/09/19	6.9	0
10/10/19	6.7	0
10/11/19	6.9	0
10/12/19	6.7	0
10/13/19	6.7	0
10/14/19	6.8	0
10/15/19	6.8	0
10/16/19	6.8	0
10/17/19	6.9	0
10/18/19	7.0	0
10/19/19	6.8	3,0
10/20/19	6.9	0
10/21/19	7.0	0
10/22/19	6.9	4,0
10/23/19	6.9	0
10/24/19	7.0	0
10/25/19	6.9	53,(
10/26/19	6.8	101,
10/27/19	6.9	72,(
10/28/19	7.1	47,(
10/29/19	6.9	90,(
10/30/19	6.9	61,(
10/31/19	6.8	64,(

TABLE 1 GLENS FALLS PRETREATED DISCHARGE TO POTW / QUALITY

LOCATION:	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POT
ANALYZEI	Test America	Test America	Test America	Test America		Test
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 42	
PRESERVED:	Acid Chilled	Acid Chilled	Acid Chilled	NaOH Chilled		Ch
	Tot Chrom	Tot Lea	Tot Merc	Tot Cyan	Tot Phen Compli	Compli Poi
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH
POTW Permit or min					6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.
Quaterly ave.		0.005			175,000	
Compli	Ye	Ye	Ye	Ye	Ye	Ye
Quarterly min	0.38	0.003	0.0002	0.45	0.05	
Quarterly ave	0.38	0.003	0.0002	0.45	0.05	
Quarterly max	0.38	0.003	0.0002	0.45	0.05	
Data points	1	1	1	1	92	

Date:		
11/01/19	6.8	55,
11/02/19	7.1	90,
11/03/19	7.0	94,
11/04/19	7.0	87,
11/05/19	7.0	52,
11/06/19	6.9	80,
11/07/19	7.0	72,
11/08/19	7.2	63,
11/09/19	6.9	57,
11/10/19	6.9	57,
11/11/19	6.9	62,
11/12/19	7.1	62,
11/13/19	7.0	61,
11/14/19	6.9	54,
11/15/19	6.9	53,
11/16/19	6.9	54,
11/17/19	7.0	52,
11/18/19	7.0	53,
11/19/19	7.0	51,
11/20/19	7.0	52,
11/21/19	7.3	54,
11/22/19	7.0	66,
11/23/19	7.0	59,
11/24/19	7.0	54,
11/25/19	7.1	55,
11/26/19	7.2	65,
11/27/19	7.0	62,
11/28/19	7.3	55,
11/29/19	7.1	56,
11/30/19	7.2	72,

TABLE 1 GLENS FALLS PRETREATED DISCHARGE TO POTW / QUARTERLY

LOCATION:	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POTW- CG Sampler	POT
ANALYZEI	Test America	Test America	Test America	Test America	Test America	Test
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 42	
PRESERVED:	Acid Chilled	Acid Chilled	Acid Chilled	NaOH Chilled	Ch	
	Tot Chrom	Tot Lea	Tot Merc	Tot Cyan	Tot Phen	Compli Poi	Compli Poi
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH
POTW Permit or min						6.0
Daily max.	NS	0.8	0.025	3.0	5.0	9.
Quaterly ave.		0.005				175,000
Compli	Ye	Ye	Ye	Ye	Ye	Ye	Ye
Quarterly min	0.38	0.003	0.0002	0.45	0.05	
Quarterly ave	0.38	0.003	0.0002	0.45	0.05	
Quarterly max	0.38	0.003	0.0002	0.45	0.05	
Data points	1	1	1	1	1	92	

Date:						
12/01/19					6.8	58,(
12/02/19					7.0	54,(
12/03/19					7.2	55,(
12/04/19					7.0	57,(
12/05/19					7.0	61,(
12/06/19					7.1	53,(
12/07/19					6.9	56,(
12/08/19					6.9	53,(
12/09/19					6.9	50,(
12/10/19					7.0	52,(
12/11/19	0.380	0.0025	0.0002	0.450	0.050	
12/12/19					7.0	70,(
12/13/19					7.3	65,(
12/14/19					7.3	57,(
12/15/19					7.1	66;(
12/16/19					7.0	69,(
12/17/19					7.0	54,(
12/18/19					7.1	58,(
12/19/19					7.1	64,(
12/20/19					6:9	13,(
12/21/19					7.2	101,
12/22/19					6.9	54,(
12/23/19					6.9	53,(
12/24/19					6.9	54,(
12/25/19					7.0	51,(
12/26/19					7.0	51,(
12/27/19					6.9	51,(
12/28/19					6.7	50,(
12/29/19					6.9	51,(
12/30/19					7.0	50,(
12/31/19					7.1	52,(

Quarterly Averag	
Concent	0.38 mg/L
Ave.	44,641 gpd
Ave.	0.14 #/day
PERM	3.10 #/day

Noti

ND: Non-Detect. Value reported to be below the Laboratory Reporting
NS: No Standard. No instantaneous maximum for Total Chromium.
J: Lab estimated value
The laboratory Reporting Limit for Phenols is 0.050 mg/L.

Table 2
POTW Effluent Extended Parameters – 4th Quarter 2019
Glens Falls, New York
December 11, 2019

Parameter	Effluent Limitations		Effluent Concentrations	
	Instantaneous Maximum	Quarterly Average		
	mg/L	mg/L	Conc.	Units
Antimony	10	-	0.0016 J	mg/L
Ammonia	40	-	0.13 J	mg/L
Arsenic	0.25	-	<0.003	mg/L
Benzene	0.1	-	<0.02	mg/L
Biological Oxygen Demand (BOD)	-	-	<3.0	mg/L
Boron	5	-	0.15	mg/L
Cadmium	0.25	-	0.001	mg/L
Calcium	500	-	70	mg/L
Chloroform	1	-	<0.02	mg/L
Chromium, total	*See below**	3.1 lb/day	0.38	mg/L
Copper	1	-	0.0019 J	mg/L
Cyanide, total	3	-	0.45	mg/L
Ethylbenzene	0.1	-	<0.02	mg/L
Iron	50	-	0.2	mg/L
Lead	0.8	-	<0.0025	mg/L
Manganese	5	-	0.002 J	mg/L
Mercury	0.025	0.005	<0.0002	mg/L
Methylene Chloride	1	-	<0.1	mg/L
Napthalene	1	-	<0.0099	mg/L
Nickel	2.3	-	<0.005	mg/L
Oil & Grease	50	-	<10	mg/L
pH (Standard Units)	6.0 - 9.0	-	8.1	SU
Pentachlorophenol	-	-	<0.05	mg/L
2,4,6-Trichlorophenol	-	-	<0.0099	mg/L
2,4,5-Trichlorophenol	-	-	<0.0099	mg/L
Phenols	5	-	<0.05	mg/L
Silver	0.2	-	<0.001	mg/L
Temperature (degrees Celsius)	-	-	19.5	deg C
Toluene	0.1	-	<0.02	mg/L
Total Suspended Solids	-	-	<2.0	mg/L
1,1,1 - Trichloroethane	1	-	<0.02	mg/L
Xylene	0.1	-	<0.04	mg/L
Zinc	1.5	-	<0.02	mg/L
Flow (gallons per day)	350,000	175,000	57,000	gpd

**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.*

- : No standard value

J: Lab estimated value (Between the method detection limit and the reporting limit)

<3.0 : The analyte was not detected and the value is below the laboratory reporting limit

Bold: Analyte exceeded the permitted effulent limitations

ATTACHMENT 2

ANALYTICAL DATA

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 680-178077-1
Client Project/Site: Hercules Glens Falls Annual POTW

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

Attn: Mr. Jim Vondracek



Authorized for release by:
12/30/2019 7:36:35 AM

Eddie Barnett, Project Manager I
(912)250-0280
eddie.barnett@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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.
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
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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	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)

Sample Summary

Client: Ashland LLC
Job ID: 680-178077-1
Project/Site: Hercules Glens Falls Annual POTW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-178077-1	POTW_20191211	Water	12/11/19 09:25	12/12/19 09:20	
680-178077-2	Trip Blank	Water	12/11/19 00:00	12/12/19 09:20	

Job ID: 680-178077-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE
Client: Ashland LLC
Project: Hercules Glens Falls Annual POTW

Report Number: 680-178077-1

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 12/12/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples POTW_20191211 (680-178077-1) and Trip Blank (680-178077-2) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA Method 624. The samples were analyzed on 12/16/2019.

Sample POTW_20191211 (680-178077-1)[20X] 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.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample POTW_20191211 (680-178077-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA Method 625. The sample was prepared on 12/13/2019 and analyzed on 12/19/2019.

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

METALS (ICP)
Sample POTW_20191211 (680-178077-1) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The sample was prepared on 12/23/2019 and analyzed on 12/24/2019.

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

TOTAL METALS (ICPMS)
Sample POTW_20191211 (680-178077-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 12/23/2019 and analyzed on 12/24/2019.

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

TOTAL MERCURY
Sample POTW_20191211 (680-178077-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 12/16/2019.

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_20191211 (680-178077-1) was analyzed for Oil and Grease and TPH in accordance with EPA Method 1664A. The sample was analyzed on 12/22/2019.

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

Job ID: 680-178077-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

TOTAL SUSPENDED SOLIDS

Sample POTW_20191211 (680-178077-1) was analyzed for total suspended solids in accordance with SM 2540D. The sample was analyzed on 12/16/2019.

Insufficient sample volume was provided to produce results within the specifications of SM 2540D which requires at least 2.5 mg dried residue with a sample volume not to exceed 1L. A sample volume less than 1L, that yielded less than 2.5 mg dried residue, was provided for the following sample: POTW_20191211 (680-178077-1).

Total Suspended Solids recovered high for LCSD 680-600835/3. Total Suspended Solids exceeded the RPD limit. Total Suspended Solids was biased high in the LCSD and was not detected in the associated sample; therefore, the data has been reported. 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 CYANIDE

Sample POTW_20191211 (680-178077-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared on 12/18/2019 and analyzed on 12/19/2019.

Sample POTW_20191211 (680-178077-1)[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.

AMMONIA

Sample POTW_20191211 (680-178077-1) was analyzed for ammonia in accordance with EPA Method 350.1. The sample was analyzed on 12/27/2019.

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

PHENOLS

Sample POTW_20191211 (680-178077-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared on 12/17/2019 and analyzed on 12/18/2019.

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

BIOCHEMICAL OXYGEN DEMAND

Sample POTW_20191211 (680-178077-1) was analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The sample was analyzed on 12/13/2019.

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

CORROSIVITY (PH)

Sample POTW_20191211 (680-178077-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The sample was analyzed on 12/13/2019.

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.

Client: Ashland LLC
Project/Site: Hercules Glens Falls Annual POTW

Job ID: 680-178077-1

Client Sample ID: POTW_20191211
Date Collected: 12/11/19 09:25
Date Received: 12/12/19 09:20

Lab Sample ID: 680-178077-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20	U	20	8.6	ug/L			12/16/19 17:22	20
Chloroform	20	U	20	10	ug/L			12/16/19 17:22	20
Ethylbenzene	20	U	20	6.6	ug/L			12/16/19 17:22	20
Methylene Chloride	100	U	100	50	ug/L			12/16/19 17:22	20
Toluene	20	U	20	9.6	ug/L			12/16/19 17:22	20
1,1,1-Trichloroethane	20	U	20	7.4	ug/L			12/16/19 17:22	20
Xylenes, Total	40	U	40	11	ug/L			12/16/19 17:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 119*		*12/16/19 17:22*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*12/16/19 17:22*	*20*
4-Bromofluorobenzene (Surr)	*99*		*71 - 121*		*12/16/19 17:22*	*20*
Dibromofluoromethane (Surr)	*99*		*77 - 129*		*12/16/19 17:22*	*20*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	9.9	U	9.9	0.69	ug/L		12/13/19 10:44	12/19/19 07:57	1
Pentachlorophenol	50	U	50	1.8	ug/L		12/13/19 10:44	12/19/19 07:57	1
2,4,6-Trichlorophenol	9.9	U	9.9	0.81	ug/L		12/13/19 10:44	12/19/19 07:57	1
2,4,5-Trichlorophenol	9.9	U	9.9	9.9	ug/L		12/13/19 10:44	12/19/19 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*38 - 121*	*12/13/19 10:44*	*12/19/19 07:57*	*1*
2-Fluorophenol	*66*		*35 - 110*	*12/13/19 10:44*	*12/19/19 07:57*	*1*
Nitrobenzene-d5	*72*		*44 - 119*	*12/13/19 10:44*	*12/19/19 07:57*	*1*
Phenol-d5	*64*		*27 - 119*	*12/13/19 10:44*	*12/19/19 07:57*	*1*
Terphenyl-d14	*52*		*10 - 165*	*12/13/19 10:44*	*12/19/19 07:57*	*1*
2,4,6-Tribromophenol	*59*		*34 - 132*	*12/13/19 10:44*	*12/19/19 07:57*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**150**		100	36	ug/L		12/23/19 10:25	12/24/19 10:03	1
Calcium	**70000**		500	25	ug/L		12/23/19 10:25	12/24/19 10:03	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**	J	5.0	0.50	ug/L		12/23/19 10:25	12/24/19 03:04	1
Arsenic	3.0	U	3.0	1.5	ug/L		12/23/19 10:25	12/24/19 03:04	1
Cadmium	**1.0**		0.50	0.15	ug/L		12/23/19 10:25	12/24/19 03:04	1
Chromium	**380**		5.0	1.6	ug/L		12/23/19 10:25	12/24/19 03:04	1
Copper	**1.9**	J	5.0	1.7	ug/L		12/23/19 10:25	12/24/19 03:04	1
Iron	**200**		100	25	ug/L		12/23/19 10:25	12/24/19 03:04	1
Lead	2.5	U	2.5	0.98	ug/L		12/23/19 10:25	12/24/19 03:04	1
Manganese	**2.0**	J	5.0	1.8	ug/L		12/23/19 10:25	12/24/19 03:04	1
Nickel	5.0	U	5.0	1.9	ug/L		12/23/19 10:25	12/24/19 03:04	1
Silver	1.0	U	1.0	0.10	ug/L		12/23/19 10:25	12/24/19 03:04	1
Zinc	20	U	20	9.6	ug/L		12/23/19 10:25	12/24/19 03:04	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	ug/L		12/16/19 12:02	12/16/19 17:53	1

Client: Ashland LLC
Project/Site: Hercules Glens Falls Annual POTW

Job ID: 680-178077-1

Client Sample ID: POTW_20191211
Date Collected: 12/11/19 09:25
Date Received: 12/12/19 09:20

Lab Sample ID: 680-178077-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1	HF			SU			12/13/19 12:20	1
Temperature	19.5	HF			Degrees C			12/13/19 12:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	10.0	U	10.0	2.8	mg/L			12/22/19 09:42	1
Cyanide, Total	0.45		0.10	0.025	mg/L		12/18/19 14:19	12/19/19 10:24	10
Ammonia	0.13	J	0.25	0.10	mg/L			12/27/19 11:45	1
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		12/17/19 10:39	12/18/19 11:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.0	U *	2.0	2.0	mg/L			12/16/19 19:27	1
Biochemical Oxygen Demand	<3.0		3.0	3.0	mg/L			12/13/19 09:10	1

Client: Ashland LLC
Project/Site: Hercules Glens Falls Annual POTW

Job ID: 680-178077-1

Client Sample ID: Trip Blank
Date Collected: 12/11/19 00:00
Date Received: 12/12/19 09:20

Lab Sample ID: 680-178077-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			12/16/19 22:26	1
Chloroform	1.0	U	1.0	0.50	ug/L			12/16/19 22:26	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			12/16/19 22:26	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			12/16/19 22:26	1
Toluene	1.0	U	1.0	0.48	ug/L			12/16/19 22:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/16/19 22:26	1
Xylenes, Total	2.0	U	2.0	0.57	ug/L			12/16/19 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 119*		*12/16/19 22:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/16/19 22:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*71 - 121*		*12/16/19 22:26*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 129*		*12/16/19 22:26*	*1*

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-600669/10
Matrix: Water
Analysis Batch: 600669

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			12/16/19 15:34	1
Chloroform	1.0	U	1.0	0.50	ug/L			12/16/19 15:34	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			12/16/19 15:34	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			12/16/19 15:34	1
Toluene	1.0	U	1.0	0.48	ug/L			12/16/19 15:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/16/19 15:34	1
Xylenes, Total	2.0	U	2.0	0.57	ug/L			12/16/19 15:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 119*		*12/16/19 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*12/16/19 15:34*	*1*
4-Bromofluorobenzene (Surr)	*96*		*71 - 121*		*12/16/19 15:34*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 129*		*12/16/19 15:34*	*1*

Lab Sample ID: LCS 680-600669/4
Matrix: Water
Analysis Batch: 600669

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.1		ug/L		104	37 - 151
Chloroform	50.0	49.7		ug/L		99	51 - 138
Ethylbenzene	50.0	50.2		ug/L		100	37 - 162
Methylene Chloride	50.0	48.3		ug/L		97	1 - 221
Toluene	50.0	50.0		ug/L		100	47 - 150
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	52 - 162
Xylenes, Total	100	99.0		ug/L		99	78 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*79 - 119*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*71 - 121*
Dibromofluoromethane (Surr)	*95*		*77 - 129*

Lab Sample ID: LCSD 680-600669/5
Matrix: Water
Analysis Batch: 600669

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	52.4		ug/L		105	37 - 151	1	30
Chloroform	50.0	49.9		ug/L		100	51 - 138	0	30
Ethylbenzene	50.0	50.1		ug/L		100	37 - 162	0	30
Methylene Chloride	50.0	48.4		ug/L		97	1 - 221	0	30
Toluene	50.0	50.3		ug/L		101	47 - 150	1	30
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	52 - 162	1	30
Xylenes, Total	100	99.6		ug/L		100	78 - 119	1	30

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-600669/5
Matrix: Water
Analysis Batch: 600669

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	99		79 - 119
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	106		71 - 121
Dibromofluoromethane (Surr)	97		77 - 129

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-600354/10-A
Matrix: Water
Analysis Batch: 601180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	10	U	10	0.70	ug/L		12/13/19 10:44	12/18/19 21:03	1
Pentachlorophenol	50	U	50	1.8	ug/L		12/13/19 10:44	12/18/19 21:03	1
2,4,6-Trichlorophenol	10	U	10	0.82	ug/L		12/13/19 10:44	12/18/19 21:03	1
2,4,5-Trichlorophenol	10	U	10	10	ug/L		12/13/19 10:44	12/18/19 21:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		38 - 121	12/13/19 10:44	12/18/19 21:03	1
2-Fluorophenol	79		35 - 110	12/13/19 10:44	12/18/19 21:03	1
Nitrobenzene-d5	93		44 - 119	12/13/19 10:44	12/18/19 21:03	1
Phenol-d5	83		27 - 119	12/13/19 10:44	12/18/19 21:03	1
Terphenyl-d14	93		10 - 165	12/13/19 10:44	12/18/19 21:03	1
2,4,6-Tribromophenol	95		34 - 132	12/13/19 10:44	12/18/19 21:03	1

Lab Sample ID: LCS 680-600354/11-A
Matrix: Water
Analysis Batch: 601180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	81.5		ug/L		81	21 - 133
Pentachlorophenol	200	177		ug/L		88	14 - 176
2,4,6-Trichlorophenol	100	91.6		ug/L		92	37 - 144
2,4,5-Trichlorophenol	100	95.5		ug/L		95	62 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	90		38 - 121
2-Fluorophenol	73		35 - 110
Nitrobenzene-d5	83		44 - 119
Phenol-d5	84		27 - 119
Terphenyl-d14	91		10 - 165
2,4,6-Tribromophenol	87		34 - 132

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-601752/1-A
Matrix: Water
Analysis Batch: 601998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	36	ug/L		12/23/19 10:25	12/24/19 08:51	1
Calcium	500	U	500	25	ug/L		12/23/19 10:25	12/24/19 08:51	1

Lab Sample ID: LCS 680-601752/2-A
Matrix: Water
Analysis Batch: 601998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	200	197		ug/L		99	85 - 115
Calcium	5000	4930		ug/L		99	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-601751/1-A
Matrix: Water
Analysis Batch: 601922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0	U	5.0	0.50	ug/L		12/23/19 10:25	12/24/19 02:19	1
Arsenic	3.0	U	3.0	1.5	ug/L		12/23/19 10:25	12/24/19 02:19	1
Cadmium	0.50	U	0.50	0.15	ug/L		12/23/19 10:25	12/24/19 02:19	1
Chromium	5.0	U	5.0	1.6	ug/L		12/23/19 10:25	12/24/19 02:19	1
Copper	5.0	U	5.0	1.7	ug/L		12/23/19 10:25	12/24/19 02:19	1
Iron	100	U	100	25	ug/L		12/23/19 10:25	12/24/19 02:19	1
Lead	2.5	U	2.5	0.98	ug/L		12/23/19 10:25	12/24/19 02:19	1
Manganese	5.0	U	5.0	1.8	ug/L		12/23/19 10:25	12/24/19 02:19	1
Nickel	5.0	U	5.0	1.9	ug/L		12/23/19 10:25	12/24/19 02:19	1
Silver	1.0	U	1.0	0.10	ug/L		12/23/19 10:25	12/24/19 02:19	1
Zinc	20	U	20	9.6	ug/L		12/23/19 10:25	12/24/19 02:19	1

Lab Sample ID: LCS 680-601751/2-A
Matrix: Water
Analysis Batch: 601922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	57.2		ug/L		114	85 - 115
Arsenic	100	105		ug/L		105	85 - 115
Cadmium	50.0	52.8		ug/L		106	85 - 115
Chromium	100	105		ug/L		105	85 - 115
Copper	100	103		ug/L		103	85 - 115
Iron	5010	5260		ug/L		105	85 - 115
Lead	454	470		ug/L		103	85 - 115
Manganese	400	432		ug/L		108	85 - 115
Nickel	99.5	103		ug/L		103	85 - 115
Silver	50.0	51.6		ug/L		103	85 - 115
Zinc	101	103		ug/L		103	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-600734/13-A
Matrix: Water
Analysis Batch: 600955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		12/16/19 12:02	12/16/19 17:29	1

Lab Sample ID: LCS 680-600734/14-A
Matrix: Water
Analysis Batch: 600955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.43		ug/L		97	85 - 115

Lab Sample ID: 680-178077-1 MS
Matrix: Water
Analysis Batch: 600955

Client Sample ID: POTW_20191211
Prep Type: Total/NA
Prep Batch: 600734

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	0.967		ug/L		97	70 - 130

Lab Sample ID: 680-178077-1 MSD
Matrix: Water
Analysis Batch: 600955

Client Sample ID: POTW_20191211
Prep Type: Total/NA
Prep Batch: 600734

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.02		ug/L		102	70 - 130	6	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 460-664354/1
Matrix: Water
Analysis Batch: 664354

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	5.0	U	5.0	1.4	mg/L			12/22/19 09:33	1

Lab Sample ID: LCS 460-664354/2
Matrix: Water
Analysis Batch: 664354

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	36.80		mg/L		92	78 - 114

Lab Sample ID: LCSD 460-664354/3
Matrix: Water
Analysis Batch: 664354

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	35.70		mg/L		89	78 - 114	3	18

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-601167/12-A
Matrix: Water
Analysis Batch: 601368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0025	mg/L		12/18/19 14:19	12/18/19 17:31	1

Lab Sample ID: LCS 680-601167/13-A
Matrix: Water
Analysis Batch: 601368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0491		mg/L		98	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-602306/12
Matrix: Water
Analysis Batch: 602306

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			12/27/19 11:17	1

Lab Sample ID: LCS 680-602306/11
Matrix: Water
Analysis Batch: 602306

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-600899/1-A
Matrix: Water
Analysis Batch: 601168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600899

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		12/17/19 10:39	12/18/19 11:20	1

Lab Sample ID: LCS 680-600899/2-A
Matrix: Water
Analysis Batch: 601168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.100		mg/L		100	75 - 125

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 680-600835/1
Matrix: Water
Analysis Batch: 600835

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			12/16/19 19:02	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 680-600835/2
Matrix: Water
Analysis Batch: 600835

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	50.0	44.5		mg/L		89	80 - 120

Lab Sample ID: LCSD 680-600835/3
Matrix: Water
Analysis Batch: 600835

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	50.0	87.0	*	mg/L		174	80 - 120	65	25

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 680-600468/6
Matrix: Water
Analysis Batch: 600468

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.01	7.1		SU		101	63 - 158

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 680-600353/4
Matrix: Water
Analysis Batch: 600353

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			12/13/19 14:18	1

Lab Sample ID: LCS 680-600353/5
Matrix: Water
Analysis Batch: 600353

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	179		mg/L		90	85 - 115

Lab Sample ID: LCSD 680-600353/6
Matrix: Water
Analysis Batch: 600353

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	185		mg/L		93	85 - 115	3	30

GC/MS VOA

Analysis Batch: 600669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	624	
680-178077-2	Trip Blank	Total/NA	Water	624	
MB 680-600669/10	Method Blank	Total/NA	Water	624	
LCS 680-600669/4	Lab Control Sample	Total/NA	Water	624	
LCSD 680-600669/5	Lab Control Sample Dup	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 600354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	625	
MB 680-600354/10-A	Method Blank	Total/NA	Water	625	
LCS 680-600354/11-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 601180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	625	600354
MB 680-600354/10-A	Method Blank	Total/NA	Water	625	600354
LCS 680-600354/11-A	Lab Control Sample	Total/NA	Water	625	600354

Metals

Prep Batch: 600734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	245.1	
MB 680-600734/13-A	Method Blank	Total/NA	Water	245.1	
LCS 680-600734/14-A	Lab Control Sample	Total/NA	Water	245.1	
680-178077-1 MS	POTW_20191211	Total/NA	Water	245.1	
680-178077-1 MSD	POTW_20191211	Total/NA	Water	245.1	

Analysis Batch: 600955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	245.1	600734
MB 680-600734/13-A	Method Blank	Total/NA	Water	245.1	600734
LCS 680-600734/14-A	Lab Control Sample	Total/NA	Water	245.1	600734
680-178077-1 MS	POTW_20191211	Total/NA	Water	245.1	600734
680-178077-1 MSD	POTW_20191211	Total/NA	Water	245.1	600734

Prep Batch: 601751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	200.8	
MB 680-601751/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-601751/2-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 601752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	200.7	
MB 680-601752/1-A	Method Blank	Total/NA	Water	200.7	
LCS 680-601752/2-A	Lab Control Sample	Total/NA	Water	200.7	

Metals

Analysis Batch: 601922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	200.8	601751
MB 680-601751/1-A	Method Blank	Total/NA	Water	200.8	601751
LCS 680-601751/2-A	Lab Control Sample	Total/NA	Water	200.8	601751

Analysis Batch: 601998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	200.7 Rev 4.4	601752
MB 680-601752/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	601752
LCS 680-601752/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	601752

General Chemistry

Analysis Batch: 600353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	SM 5210B	
USB 680-600353/4	Method Blank	Total/NA	Water	SM 5210B	
LCS 680-600353/5	Lab Control Sample	Total/NA	Water	SM 5210B	
LCSD 680-600353/6	Lab Control Sample Dup	Total/NA	Water	SM 5210B	

Analysis Batch: 600468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	SM 4500 H+ B	
LCS 680-600468/6	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 600835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	SM 2540D	
MB 680-600835/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 680-600835/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 680-600835/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Prep Batch: 600899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	Distill/Phenol	
MB 680-600899/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-600899/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Prep Batch: 601167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	Distill/CN	
MB 680-601167/12-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-601167/13-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 601168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	420.1	600899
MB 680-600899/1-A	Method Blank	Total/NA	Water	420.1	600899
LCS 680-600899/2-A	Lab Control Sample	Total/NA	Water	420.1	600899

QC Association Summary

Client: Ashland LLC
Job ID: 680-178077-1
Project/Site: Hercules Glens Falls Annual POTW

General Chemistry

Analysis Batch: 601368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	335.4	601167
MB 680-601167/12-A	Method Blank	Total/NA	Water	335.4	601167
LCS 680-601167/13-A	Lab Control Sample	Total/NA	Water	335.4	601167

Analysis Batch: 602306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	350.1	
MB 680-602306/12	Method Blank	Total/NA	Water	350.1	
LCS 680-602306/11	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 664354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-178077-1	POTW_20191211	Total/NA	Water	1664A	
MB 460-664354/1	Method Blank	Total/NA	Water	1664A	
LCS 460-664354/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 460-664354/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Lab Chronicle

Client: Ashland LLC
Job ID: 680-178077-1
Project/Site: Hercules Glens Falls Annual POTW

Client Sample ID: POTW_20191211
Lab Sample ID: 680-178077-1
Date Collected: 12/11/19 09:25
Matrix: Water
Date Received: 12/12/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		20	600669	12/16/19 17:22	Y1S	TAL SAV
Total/NA	Prep	625			600354	12/13/19 10:44	EHS	TAL SAV
Total/NA	Analysis	625		1	601180	12/19/19 07:57	T1C	TAL SAV
Total/NA	Prep	200.7			601752	12/23/19 10:25	AJR	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	601998	12/24/19 10:03	BCB	TAL SAV
Total/NA	Prep	200.8			601751	12/23/19 10:25	AJR	TAL SAV
Total/NA	Analysis	200.8		1	601922	12/24/19 03:04	BWR	TAL SAV
Total/NA	Prep	245.1			600734	12/16/19 12:02	PG	TAL SAV
Total/NA	Analysis	245.1		1	600955	12/16/19 17:53	BCB	TAL SAV
Total/NA	Analysis	1664A		1	664354	12/22/19 09:42	JJK	TAL EDI
Total/NA	Prep	Distill/CN			601167	12/18/19 14:19	JER	TAL SAV
Total/NA	Analysis	335.4		10	601368	12/19/19 10:24	JER	TAL SAV
Total/NA	Analysis	350.1		1	602306	12/27/19 11:45	AMH	TAL SAV
Total/NA	Prep	Distill/Phenol			600899	12/17/19 10:39	SM	TAL SAV
Total/NA	Analysis	420.1		1	601168	12/18/19 11:20	SM	TAL SAV
Total/NA	Analysis	SM 2540D		1	600835	12/16/19 19:27	YMB	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	600468	12/13/19 12:20	JER	TAL SAV
Total/NA	Analysis	SM 5210B		1	600353	12/13/19 09:10	OLB	TAL SAV

Client Sample ID: Trip Blank
Lab Sample ID: 680-178077-2
Date Collected: 12/11/19 00:00
Matrix: Water
Date Received: 12/12/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	600669	12/16/19 22:26	Y1S	TAL SAV

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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

Accreditation/Certification Summary

Client: Ashland LLC
Job ID: 680-178077-1
Project/Site: Hercules Glens Falls Annual POTW

Laboratory: Eurofins TestAmerica, Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10842	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
200.8	200.8	Water	Iron
245.1	245.1	Water	Mercury
624		Water	1,1,1-Trichloroethane
624		Water	Benzene
624		Water	Chloroform
624		Water	Ethylbenzene
624		Water	Methylene Chloride
624		Water	Toluene
624		Water	Xylenes, Total
625	625	Water	2,4,5-Trichlorophenol
625	625	Water	2,4,6-Trichlorophenol
625	625	Water	Naphthalene
625	625	Water	Pentachlorophenol
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No.>	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State	M-NJ312	06-30-20
Massachusetts	State Program	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-20
Pennsylvania	NELAP	68-00522	02-28-20
Rhode Island	State	LAO00132	12-30-19
USDA	US Federal Programs	P330-18-00135	05-03-21

Method Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls Annual POTW

Job ID: 680-178077-1

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 EDI
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 SAV
200.7	Preparation, Total Metals	EPA	TAL SAV
200.8	Preparation, Total Metals	EPA	TAL SAV
245.1	Preparation, Mercury	EPA	TAL SAV
625	Liquid-Liquid Extraction	40CFR136A	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	TAL SAV

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.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Albany #224

Chain of Custody Record

eurofins

Client Information	Sampler: Katelyn Foster	Lab PM: Barnett, Eddie T	Carrier Tracking No(s):	COC No: 680-109870-42936.1
Client Contact: ~~Bryan Reles~~ Cody Hume	Phone: (386)984 6782	E-Mail: eddie.barnett@testamericainc.com		Page: Page 1 of 1
Company: Antea USA Inc.				Job #:
Address: 300 Summit Lake Drive ~~5708 Wide Water Parkway, 2nd Floor, ANTEA~~	Due Date Requested: 10-day TAT	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
City: ~~Syracuse~~ Valhalla	TAT Requested (days):			
State, Zip: NY, ~~13214~~ 10595				
Phone: ~~614-798-6148(Tel)~~ (914)495-9935	PO #: PO814392			
Email: cody.hume bryan.reles@anteagroup.com	WO #: Task 400			
Project Name: Ashland Glens Falls Annual POTW	Project #: 68000956			
Site: Glens Falls	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Oowipe/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia	200.7_CWA, 200.8_CWA, 245.1	1664A_NP - HEM (Oil & Grease)	624_5ml - 624-VOC	625 - (MOD) Acid/Base Priority Pollutants	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	335.4 - Cyanide, Total	420.1 - Phenolics, Total Recoverable	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	S	A	N	N	N	B	S	N		
POTW_20191211	12/11/19	0925	G	Water	N	N	X	X	X	X	X	X	X	X	X	X		
TRIP Blank	12/11/19	—	G	Water	N	N				X								

MK 12/11/19

680-178077 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements: cody.hume@anteagroup.com EDDweil@ashland.com rossis.reuterpumpsupport.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/11/19 1237	Antea Group		12/11/19 1430	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
	12/11/19 1700	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				12.12.19 0920	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	1.7/1.8

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

12/30/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Barnett, Eddie T	Carrier Tracking No(s):	COC No: 680-594747.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: eddie.barnett@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 680-178077-1
Address: 777 New Durham Road,	Due Date Requested: 12/24/2019			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Hercules Glens Falls Annual POTW	Project #: 68000956			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1664A_NP/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
POTW_20191211 (680-178077-1)	12/11/19	09:25 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-13-19 1738			12/19/19 1700	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	1108978, 1108980	4.9°C / 5.2°C, 5.6°C, 5.9°C, IR#1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 680-178077-1

Login Number: 178077
List Number: 1
Creator: Barnett, Eddie T

List Source: Eurofins TestAmerica, Savannah

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	

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 680-178077-1

Login Number: 178077
List Number: 2
Creator: Villanueva, Angelica P

List Source: Eurofins TestAmerica, Edison
List Creation: 12/19/19 09:04 PM

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	1108978, 1108980
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	4.9°C/5.2°C, 5.6°C/5.9°C IR11
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	

Attachment 3 POTW Effluent Extended Parameters

Attachment 3

POTW Effluent Extended Parameters - 4th Quarter 2019

Glens Falls, New York

December 11, 2019

Parameter	Effluent Limitations		Effluent Concentrations	
	Instantaneous Maximum mg/L	Quarterly Average mg/L	Concentration	Units
Antimony	10	-	0.0016 J	mg/L
Ammonia	40	-	0.13 J	mg/L
Arsenic	0.25	-	<0.003	mg/L
Benzene	0.1	-	<0.02	mg/L
Biological Oxygen Demand (BOD)	-	-	<3.0	mg/L
Boron	5	-	0.15	mg/L
Cadmium	0.25	-	0.001	mg/L
Calcium	500	-	70	mg/L
Chloroform	1	-	<0.02	mg/L
Chromium, total	*See below**	3.1 lb/day	0.38	mg/L
Copper	1	-	0.0019 J	mg/L
Cyanide, total	3	-	0.45	mg/L
Ethylbenzene	0.1	-	<0.02	mg/L
Iron	50	-	0.2	mg/L
Lead	0.8	-	<0.0025	mg/L
Manganese	5	-	0.002 J	mg/L
Mercury	0.025	0.005	<0.0002	mg/L
Methylene Chloride	1	-	<0.1	mg/L
Napthalene	1	-	<0.0099	mg/L
Nickel	2.3	-	<0.005	mg/L
Oil & Grease	50	-	<10	mg/L
pH (Standard Units)	6.0 - 9.0	-	8.1	SU
Pentachlorophenol	-	-	<0.05	mg/L
2,4,6-Trichlorophenol	-	-	<0.0099	mg/L
2,4,5-Trichlorophenol	-	-	<0.0099	mg/L
Phenols	5	-	<0.05	mg/L
Silver	0.2	-	<0.001	mg/L
Temperature (degrees Celsius)	-	-	19.5	deg C
Toluene	0.1	-	<0.02	mg/L
Total Suspended Solids	-	-	<2.0	mg/L
1,1,1 - Trichloroethane	1	-	<0.02	mg/L
Xylene	0.1	-	<0.04	mg/L
Zinc	1.5	-	<0.02	mg/L
Flow (gallons per day)	350,000	175,000	57,000	gpd

**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.*

- : No standard value

J: Lab estimated value (Between the method detection limit and the reporting limit)

<3.0 : The analyte was not detected and the value is below the laboratory reporting limit

Bold: Analyte exceeded the permitted effluent limitations

gpd: gallons per day

lb/day: pounds per day

mg/L: milligrams per liter

SU: standard units

Attachment 4 EW-B5 Weekly Totalizer Summary

Attachment 4 – EW-B5 Weekly Totalizer Summary
Glens Falls, New York
December 11, 2019

Date	Days Since Previous Reading	Totalizer Reading (gal)	Since Previous Reading		Ave. gal/day over Period (1)
			Gallons Pumped	Ave. gal/day	
1/2/2019	---	5,293	---	---	
1/7/2019	5	6,723	1,430	286	
1/14/2019	7	8,441	1,718	245	
1/23/2019	9	10,243	1,802	200	
1/28/2019	5	11,452	1,209	242	
2/4/2019	7	13,512	2,060	294	
2/11/2019	7	14,950	1,438	205	
2/18/2019	7	16,739	1,789	256	283
3/6/2019	16	22,410	5,671	354	
3/11/2019	5	24,002	1,592	318	
3/18/2019	7	25,722	1,720	246	
3/25/2019	7	28,152	2,430	347	
4/1/2019	7	30,406	2,254	322	
4/10/2019	9	33,035	2,629	292	
4/15/2019	---	---	---	---	
4/23/2019	---	---	---	---	
5/1/2019	---	---	---	---	
5/6/2019	---	---	---	---	
5/13/2019	---	---	---	---	
5/20/2019	---	---	---	---	
5/28/2019	---	2,486	---	---	
6/3/2019	6	3,346	860	143	
6/11/2019	8	5,831	2,485	311	
6/17/2019	6	7,932	2,101	350	
6/24/2019	7	9,911	1,979	283	
7/1/2019	7	11,264	1,353	193	277
7/8/2019	7	13,625	2,361	337	
7/15/2019	7	15,789	2,164	309	
7/22/2019	7	17,948	2,159	308	
7/29/2019	7	19,948	2,000	286	
8/6/2019	8	21,882	1,934	242	
8/12/2019	---	4,404	---	---	
8/21/2019	9	10,792	6,388	710	
8/27/2019	6	15,896	5,104	851	
9/3/2019	7	16,010	114	16	432
9/9/2019	6	18,425	2,415	402	
9/16/2019	7	20,888	2,463	352	
9/24/2019	8	22,980	2,092	262	

Attachment 4 – EW-B5 Weekly Totalizer Summary
Glens Falls, New York
December 11, 2019

Date	Days Since Previous Reading	Totalizer Reading (gal)	Since Previous Reading		Ave. gal/day over Period (1)
			Gallons Pumped	Ave. gal/day	
10/1/2019	---	---	---	---	
10/11/2019	---	---	---	---	
10/14/2019	---	---	---	---	
10/23/2019	---	---	---	---	
10/28/2019	---	---	---	---	
11/5/2019	---	---	---	---	
11/11/2019	---	---	---	---	
11/19/2019	---	9,833	---	---	
11/26/2019	7	12,179	2,346	335	
12/4/2019	8	14,984	2,805	351	315
12/9/2019	5	16,610	1,626	325	
12/16/2019	7	18,487	1,877	268	
12/23/2019	7	20,551	2,064	295	
			Annual Average	312	

Note
(1) Time periods shaded in gray represent periods where operational issues were addressed; where extraction was suspended or was non-typical; or where totalizer readings were inaccurate. Therefore, average extraction rates were not calculated. An additional totalizer reset was performed in early August; therefore, separate averages were calculated for the time period prior to and after the reset.
gal = gallons
Ave. = average
--- = not applicable

Attachment 5 Site Inspection Reports

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: 01/19
Date of visit: 1/7/19
O&M Tech(s): Katelyn Foster

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		1/7/19	KF
2	Download telemetry files in EPS		1/7/19	KF
3	Record pH and flow readings at POTW		1/7/19	KF
	Site Security			
1	Gates secured & locked		1/7/19	KF
2	Access roads		1/7/19	KF
3	Site utilities operational		1/7/19	KF
4	Inspect fire extinguishers and sign tag		1/7/19	KF
5	Inspect all fence lines for holes or breaks		1/7/19	KF
6	Inspect all buildings for security		1/7/19	KF
	Site Monitoring			
1	Inspect landfill cap		1/7/19	KF
2	Vegitative cover		1/7/19	KF
3	Cement company pond (Geotextile & stone)		1/7/19	KF
4	Inspect rip-rap		1/7/19	KF
5	Inspect ditches/swales and catch basins		1/7/19	KF
6	Inspect Hudson River bank		1/7/19	KF
7	Download transducer data		1/7/19	KF

COMMENTS

Tree still down in upper field, small limbs down along tracks in ~~east~~ west side of upper field → on fence. See photos for details

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: February, 2019
Date of visit: 2/4/19
O&M Tech(s): Katelyn Foran

anteagroup

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		2/4/19	
2	Download telemetry files in EPS		↓	
3	Record pH and flow readings at POTW			
	Site Security			
1	Gates secured & locked		2/4/19	
2	Access roads			
3	Site utilities operational			
4	Inspect fire extinguishers and sign tag			
5	Inspect all fence lines for holes or breaks			
6	Inspect all buildings for security		↓	
	Site Monitoring			
1	Inspect landfill cap		2/4/19	
2	Vegitative cover			
3	Cement company pond (Geotextile & stone)			
4	Inspect rip-rap			
5	Inspect ditches/swales and catch basins			
6	Inspect Hudson River bank			
7	Download transducer data		↓	

COMMENTS

Fire extinguishers due for annual inspection

Tree still down on fence in upper field; still a few small limbs laying on fence in upper field along train tracks

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: 3/19
Date of visit: 3/6/19
O&M Tech(s): Garrett L. Kelsey B.

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		3/6/19	GL
2	Download telemetry files in EPS		3/6/19	GL
3	Record pH and flow readings at POTW		3/6/19	GL
	Site Security			
1	Gates secured & locked	Yes	3/6/19	GL
2	Access roads	Clear	3/6/19	GL
3	Site utilities operational	Yes	3/6/19	GL
4	Inspect fire extinguishers and sign tag	Yes	3/6/19	GL
5	Inspect all fence lines for holes or breaks	Inspected	3/6/19	GL
6	Inspect all buildings for security	Inspected / good	3/6/19	GL
	Site Monitoring			
1	Inspect landfill cap		3/6/19	GL
2	Vegitative cover	Snow cover	3/6/19	GL
3	Cement company pond (Geotextile & stone)	good	3/6/19	GL
4	Inspect rip-rap	Good	3/6/19	GL
5	Inspect ditches/swales and catch basins	Good	3/6/19	GL
6	Inspect Hudson River bank	good	3/6/19	GL
7	Download transducer data	Yes	3/6/19	GL

COMMENTS

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: April 2019
Date of visit: 4/1/19
O&M Tech(s): Kathlyn F. Kelsey B

anteagroup

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		4/1/19	KSB
2	Download telemetry files in EPS		4/1/19	KSB
3	Record pH and flow readings at POTW		4/1/19	KSB
	Site Security			
1	Gates secured & locked		4/1/19	KSB
2	Access roads		4/1/19	KSB
3	Site utilities operational		4/1/19	KSB
4	Inspect fire extinguishers and sign tag		4/1/19	KSB
5	Inspect all fence lines for holes or breaks		4/1/19	KSB
6	Inspect all buildings for security		4/1/19	KSB
	Site Monitoring			
1	Inspect landfill cap		4/1/19	KSB
2	Vegitative cover		4/1/19	KSB
3	Cement company pond (Geotextile & stone)		4/1/19	KSB
4	Inspect rip-rap		4/1/19	KSB
5	Inspect ditches/swales and catch basins		4/1/19	KSB
6	Inspect Hudson River bank		4/1/19	KSB
7	Download transducer data		4/1/19	KSB

COMMENTS

Tree is still down on fence in the upper field.
Evidence of beavers by cement pond.
Trees fallen on the fence along the railroad (small trees)
Active ground hogs on site.

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: May / 2019
Date of visit: 05-06-2019
O&M Tech(s): Nate Sumadobnik

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		5/6/19	NS
2	Download telemetry files in EPS		5/6/19	NS
3	Record pH and flow readings at POTW		5/6/19	NS
	Site Security			
1	Gates secured & locked		5/6/19	NS
2	Access roads		5/6/19	NS
3	Site utilities operational		5/6/19	NS
4	Inspect fire extinguishers and sign tag		5/6/19	NS
5	Inspect all fence lines for holes or breaks		5/6/19	NS
6	Inspect all buildings for security		5/6/19	NS
	Site Monitoring			
1	Inspect landfill cap		5/6/19	NS
2	Vegitative cover		5/6/19	NS
3	Cement company pond (Geotextile & stone)		5/6/19	NS
4	Inspect rip-rap		5/6/19	NS
5	Inspect ditches/swales and catch basins		5/6/19	NS
6	Inspect Hudson River bank		5/6/19	NS
7	Download transducer data		5/6/19	NS

COMMENTS

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: June, 2019
Date of visit: June 03, 2019
O&M Tech(s): Nate Sawadzinski

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		06/03/2019	NS
2	Download telemetry files in EPS		06-03-2019	NS
3	Record pH and flow readings at POTW	Pictures sent to PP (Katie Angel	06-03-2019	NS
	Site Security			
1	Gates secured & locked		06-03-2019	NS
2	Access roads		06-03-2019	NS
3	Site utilities operational		06-03-2019	NS
4	Inspect fire extinguishers and sign tag		06-03-2019	NS
5	Inspect all fence lines for holes or breaks	Previously documented downed trees still present	06-03-2019	NS
6	Inspect all buildings for security		06-03-2019	NS
	Site Monitoring			
1	Inspect landfill cap	Evidence of animal burrows - likely old	06-03-2019	NS
2	Vegitative cover	Grass > knee high	06-03-2019	NS
3	Cement company pond (Geotextile & stone)	Water level N of fence -> several feet below top of bank	06-03-2019	NS
4	Inspect rip-rap		06-03-2019	NS
5	Inspect ditches/swales and catch basins		06-03-2019	NS
6	Inspect Hudson River bank	Evidence of animal burrows - likely old	06-03-2019	NS
7	Download transducer data		06-03-2019	NS

COMMENTS

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: July/2019
Date of visit: 7/1/19
O&M Tech(s): Haley Brown

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		7/1/19	HB
2	Download telemetry files in EPS		7/1/19	HB
3	Record pH and flow readings at POTW	Pictures uploaded w/ Inspection & sent to GC	7/1/19	HB
	Site Security			
1	Gates secured & locked		7/1/19	HB
2	Access roads		7/1/19	HB
3	Site utilities operational		7/1/19	HB
4	Inspect fire extinguishers and sign tag		7/1/19	HB
5	Inspect all fence lines for holes or breaks	Trees still down	7/1/19	HB
6	Inspect all buildings for security		7/1/19	HB
	Site Monitoring			
1	Inspect landfill cap	~~New evidence of groundhogs~~ HB	7/1/19	HB
2	Vegitative cover	Grass maintained. Vines on fences	7/1/19	HB
3	Cement company pond (Geotextile & stone)	evidence of beavers	7/1/19	HB
4	Inspect rip-rap		7/1/19	HB
5	Inspect ditches/swales and catch basins		7/1/19	HB
6	Inspect Hudson River bank		7/1/19	HB
7	Download transducer data		7/1/19	HB

COMMENTS

New evidence/holes from groundhogs & active living ones on site
#7 have not been grabbing data for EW-BS needs new meter

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: 8/2019.
Date of visit: 8/6/19
O&M Tech(s): Nate Schadolnik + Billy Duffy

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		8/6/19	NS
2	Download telemetry files in EPS		↓	NS
3	Record pH and flow readings at POTW		↓	NS
	Site Security			
1	Gates secured & locked		8/6/19	NS
2	Access roads		↓	NS
3	Site utilities operational		↓	NS
4	Inspect fire extinguishers and sign tag		↓	NS
5	Inspect all fence lines for holes or breaks		↓	NS
6	Inspect all buildings for security		↓	NS
	Site Monitoring			
1	Inspect landfill cap	Evidence of G-hog burrows - unclear if fresh or old	8/6/19	NS
2	Vegitative cover		8/6/19	NS
3	Cement company pond (Geotextile & stone)	above fenceline, below MW-36 set	8/6/19	NS
4	Inspect rip-rap		8/6/19	NS
5	Inspect ditches/swales and catch basins		8/6/19	NS
6	Inspect Hudson River bank		8/6/19	NS
7	Download transducer data		8/6/19	NS

COMMENTS

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: 9/2019
Date of visit: 9/3/19
O&M Tech(s): Haley Brown

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		9/3/19	HB
2	Download telemetry files in EPS		↓	HB
3	Record pH and flow readings at POTW		↓	HB
	Site Security			
1	Gates secured & locked		9/3/19	HB
2	Access roads		↓	HB
3	Site utilities operational		↓	HB
4	Inspect fire extinguishers and sign tag		↓	HB
5	Inspect all fence lines for holes or breaks		↓	HB
6	Inspect all buildings for security		↓	HB
	Site Monitoring			
1	Inspect landfill cap		9/3/19	HB
2	Vegitative cover		↓	HB
3	Cement company pond (Geotextile & stone)	Lower then last week, Stops @ end of Rocks	↓	HB
4	Inspect rip-rap		↓	HB
5	Inspect ditches/swales and catch basins		↓	HB
6	Inspect Hudson River bank		↓	HB
7	Download transducer data		↓	HB

COMMENTS

Signal problems w/ EW-B5
EW-B5 skimmed @ inside lock unable to open

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year 10/19
Date of visit: 10/11/19
O&M Tech(s): Garrett Crowe

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		10/11	GC
2	Download telemetry files in EPS		10/11	GC
3	Record pH and flow readings at POTW		10/11	GC
	Site Security			
1	Gates secured & locked		10/11	GC
2	Access roads		10/11	GC
3	Site utilities operational		10/11	GC
4	Inspect fire extinguishers and sign tag		10/11	GC
5	Inspect all fence lines for holes or breaks		10/11	GC
6	Inspect all buildings for security		10/11	GC
	Site Monitoring			
1	Inspect landfill cap		10/11	GC
2	Vegitative cover		10/11	GC
3	Cement company pond (Geotextile & stone)		10/11	GC
4	Inspect rip-rap		10/11	GC
5	Inspect ditches/swales and catch basins		10/11	GC
6	Inspect Hudson River bank		10/11	GC
7	Download transducer data		10/11	GC

COMMENTS

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year 11/19
Date of visit: 11/5/19
O&M Tech(s): Reilly Duffy

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS		11/5	
2	Download telemetry files in EPS		11/5	
3	Record pH and flow readings at POTW		11/5	
	Site Security			
1	Gates secured & locked		11/5	
2	Access roads		11/5	
3	Site utilities operational		11/5	
4	Inspect fire extinguishers and sign tag		11/5	
5	Inspect all fence lines for holes or breaks		11/5	
6	Inspect all buildings for security		11/5	
	Site Monitoring			
1	Inspect landfill cap		11/5	
2	Vegitative cover		11/5	
3	Cement company pond (Geotextile & stone)		11/5	
4	Inspect rip-rap		11/5	
5	Inspect ditches/swales and catch basins		11/5	
6	Inspect Hudson River bank		11/5	
7	Download transducer data		11/5	

COMMENTS

Initial Issue Date: 11/3/2016
Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

ROUTINE MONTHLY ACTIVITIES

Month/year: Dec 2019
Date of visit: 12-4-19
O&M Tech(s): Haley B.

Item No.	Action	Remarks & Observations	Date	Initials
	Discharge Monitoring			
1	Record totalizer flow readings in EPS	12-4-19 ↓		HB
2	Download telemetry files in EPS			HB
3	Record pH and flow readings at POTW			HB
	Site Security			
1	Gates secured & locked	12-4-19 ↓		HB
2	Access roads			HB
3	Site utilities operational			HB
4	Inspect fire extinguishers and sign tag			HB
5	Inspect all fence lines for holes or breaks			HB
6	Inspect all buildings for security			HB
	Site Monitoring			
1	Inspect landfill cap	12-4-19 ↓		HB
2	Vegitative cover			HB
3	Cement company pond (Geotextile & stone)			HB
4	Inspect rip-rap			HB
5	Inspect ditches/swales and catch basins			HB
6	Inspect Hudson River bank			HB
7	Download transducer data			HB

COMMENTS

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Routine Quarterly Activities

Quarter/year: 1Q19

Date of visit: 3/25/19

O&M Tech(s): Garrett Crowe

Item No.	Action	Date	Initials
	Discharge Monitoring		
1	Collect quarterly discharge samples from POTW		NA
2	Submit samples to laboratory for analysis		NA
	Site Security		
1	Inspect access roads for damage	3/25	GC
2	Inspect entire fence line and repair if necessary	3/25	GC
3	Inspect all locks and gates in upper and lower area	3/25	GC
4	Inspect all locks and gates across street	3/25	GC
5	Inspect old remediation building and fence line	3/25	GC
6	Inspect offsite wells and for proper security	3/25	GC
	Groundwater Extraction System		
1	Electrical connection inspection in EPS and generator station	3/25	GC
2	Inspect discharge piping in EPS	3/25	GC
3	Inspect vegetation for uncovered electrical lines	3/25	GC
4	Inspect all vaults for leaks or standing water	3/25	GC
5	Quarterly PSD Inspections (Separate Form)	3/25	GC
	Site Monitoring		
1	Inspect outfall structures along Hudson River	3/25	GC
2	Inspect all roadways	3/25	GC
3	Inspect all ditches/swales, catch basins and rip-rap	3/25	GC

COMMENTS

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Routine Quarterly Activities

Quarter/year: 2Q19

Date of visit: 6/17/19

O&M Tech(s): Garrett Crowe

Item No.	Action	Date	Initials
	Discharge Monitoring		
1	Collect quarterly discharge samples from POTW	—	—
2	Submit samples to laboratory for analysis	—	—
	Site Security		
1	Inspect access roads for damage	6/17/19	GC
2	Inspect entire fence line and repair if necessary	6/17/19	GC
3	Inspect all locks and gates in upper and lower area	6/17/19	GC
4	Inspect all locks and gates across street	6/17/19	GC
5	Inspect old remediation building and fence line	6/17/19	GC
6	Inspect offsite wells and for proper security	6/17/19	GC
	Groundwater Extraction System		
1	Electrical connection inspection in EPS and generator station	6/17/19	GC
2	Inspect discharge piping in EPS	6/17/19	GC
3	Inspect vegetation for uncovered electrical lines	6/17/19	GC
4	Inspect all vaults for leaks or standing water	6/17/19	GC
5	Quarterly PSD Inspections (Separate Form)	6/17/19	GC
	Site Monitoring		
1	Inspect outfall structures along Hudson River	6/17/19	GC
2	Inspect all roadways	6/17/19	GC
3	Inspect all ditches/swales, catch basins and rip-rap	6/17/19	GC

COMMENTS

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Routine Quarterly Activities

Quarter/year: 3Q 19

Date of visit: 9/9/19

O&M Tech(s): Garrett Crowe

Item No.	Action	Date	Initials
	Discharge Monitoring		
1	Collect quarterly discharge samples from POTW	—	NA
2	Submit samples to laboratory for analysis	—	NA
	Site Security		
1	Inspect access roads for damage	9/9	GC
2	Inspect entire fence line and repair if necessary	9/9	GC
3	Inspect all locks and gates in upper and lower area	9/9	GC
4	Inspect all locks and gates across street	9/9	GC
5	Inspect old remediation building and fence line	9/9	GC
6	Inspect offsite wells and for proper security	9/9	GC
	Groundwater Extraction System		
1	Electrical connection inspection in EPS and generator station	9/9	GC
2	Inspect discharge piping in EPS	9/9	GC
3	Inspect vegetation for uncovered electrical lines	9/9	GC
4	Inspect all vaults for leaks or standing water	9/9	GC
5	Quarterly PSD Inspections (Separate Form)	9/9	GC
	Site Monitoring		
1	Inspect outfall structures along Hudson River	9/9	GC
2	Inspect all roadways	9/9	GC
3	Inspect all ditches/swales, catch basins and rip-rap	9/9	GC

COMMENTS

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Routine Quarterly Activities

Quarter/year: 4Q 19

Date of visit: 11/26/19

O&M Tech(s): Garrett Crowe

Item No.	Action	Date	Initials
	Discharge Monitoring		
1	Collect quarterly discharge samples from POTW	~~~~	NA
2	Submit samples to laboratory for analysis	~~~~	NA
	Site Security		
1	Inspect access roads for damage	11/26	GC
2	Inspect entire fence line and repair if necessary	11/26	GC
3	Inspect all locks and gates in upper and lower area	11/26	GC
4	Inspect all locks and gates across street	11/26	GC
5	Inspect old remediation building and fence line	11/26	GC
6	Inspect offsite wells and for proper security	11/26	GC
	Groundwater Extraction System		
1	Electrical connection inspection in EPS and generator station	11/26	GC
2	Inspect discharge piping in EPS	11/26	GC
3	Inspect vegetation for uncovered electrical lines	11/26	GC
4	Inspect all vaults for leaks or standing water	11/26	GC
5	Quarterly PSD Inspections (Separate Form)	11/26	GC
	Site Monitoring		
1	Inspect outfall structures along Hudson River	11/26	GC
2	Inspect all roadways	11/26	GC
3	Inspect all ditches/swales, catch basins and rip-rap	11/26	GC

COMMENTS

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 1/2/19
Time of visit: 1100
O&M Tech(s): Katelyn Foster

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation				
SUMP A	209.67-211.22	211.22	0.0	76320344	0.0	5.0	28.81	211.08	0.14	1142	Yes	No
SUMP B	211.5-214	213.17	0.0	~~00005293~~	--	--	23.21	213.18	0.01	1138	Yes	No
EW-B5			1.3	73629937			44.16	191.59		1236	Yes	No
EPS WET WELL	--	--	0.0	Net: 1157150 Gross: 29577739	--	--	--	--	--	1343	Yes	No
MW-OB30	--	--	--	--	--	--	8.27	217.44	--	1314	Yes	No
MW-OB33	--	--	--	--	--	--	7.02	217.01	--	1330	Yes	No
MW-OB34	--	--	--	--	--	--	11.78	211.80	13.24	1149	Yes	No
MW-OB25	--	--	--	--	--	--	6.75	231.70	--	1149	Yes	No
AW-A14	--	--	--	--	--	--	14.73	220.09	--	1215	Yes	No
AW-B4	--	--	--	--	--	--	26.53	211.72	--	1151	Yes	No
AW-C11	--	--	--	--	--	--	40.93	197.52	--	1205	Yes	No
MH-4	--	--	--	--	--	--	18.68	220.18	--	1213	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.0	Yes	No	Yes	No	
QUARRY	1.0	Yes	No	Yes	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 69 Lower Warren Street, Queensbury, NY
Date of visit: 1/7/19
Time of visit: 0930
O&M Tech(s): Katelyn

WELL ID	COMPUTER: Well Setpoint/ interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	Time	Enclosure Locked/Well Sealed?
SUMP A	209.67-211.22	210	0.0	77137241	24.1	5.0	29.35	210.91	0.10	1221	Yes / No
SUMP B	211.5-214	212.9	0.0	73812003	0.0	--	23.58	212.81	0.10	1210	Yes / No
EW-B5	\	\	\	00001723	0.0	5.0	4.75	188.20	N/A	1109	Yes / No
EPS WET WELL	--	--	0.0	Net: 14418920 Gross: 29809510	--	--	--	--	--	1237	Yes / No
MW-OB30	--	--	--	--	--	--	8.78	216.93	--	1216	Yes / No
MW-OB33	--	--	--	--	--	--	7.18	216.85	--	1200	Yes / No
MW-OB34	--	--	--	--	--	--	12.11	211.47	--	1158	Yes / No
MW-OB25	--	--	--	--	--	--	7.34	231.11	--	1024	Yes / No
~~AW-A11~~ AW-C11	--	--	--	--	--	--	11.23	197.22	--	1033	Yes / No
AW-B4	--	--	--	--	--	--	26.63	211.67	--	1025	Yes / No
~~AW-C11~~ AW-A14	--	--	--	--	--	--	16.85	~~32.95~~	29.97	1026	Yes / No
MH-4	--	--	--	--	--	--	18.79	220.07	--	1027	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	~3.5	Yes	No	Yes	No	@1205
QUARRY	~1.0	Yes	No	Yes	No	@0930

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 1/14/19
Time of visit: 1000
O&M Tech(s): Katilyn Foster

anteagroup

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation				
SUMP A	209.67-211.22	210.75	0.0	781385282	24.2	5.0	29.05	210.84	0.09	1238	Yes	No
SUMP B	211.5-214	212.68	0.0	740504 73	0.0	-	23.50	212.89	0.21	1229	Yes	No
EW-B5			0.0	84411	0.0		41.62	189.27		1152	Yes	No
EPS WET WELL	--	--	0.0	Net: 1822810. Gross: 30243401	-	-	-	-	-	1300	Yes	No
MW-OB30	--	--	--	--	-	-	8.67	217.04	-	1244	Yes	No
MW-OB33	--	--	--	--	-	-	6.93	217.10	-	1225	Yes	No
MW-OB34	--	--	--	--	-	-	12.20	211.38	-	1217	Yes	No
MW-OB25	--	--	--	--	-	-	7.24	231.21	-	1044	Yes	No
AW-A14	--	--	--	--	-	-	16.55	220.27	-	1048	Yes	No
AW-B4	--	--	--	--	-	-	26.71	211.54	-	1045	Yes	No
AW-C11	--	--	--	--	-	-	41.07	197.38	-	1056	Yes	No
MH-4	--	--	--	--	-	-	18.20	220.66	-	1046	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.80	Yes	No	Yes	No	@ 1227
QUARRY	1.0	Yes	No	Yes	No	@ 1000

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39

There was ~20 min between measurement @ sump head vs computer for Sump B because remote access was not working today

Tree is still down in upper field (on fence); see 1/7/19 monthly for photos & details

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 1/23/19
Time of visit: 1030
O&M Tech(s): Kevin Lyn Foster

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation				
SUMP A	209.67-211.22	211.23	0.0	79215271	0.0	5.0	28.79	211.10	0.13	1320	(Yes)	No
SUMP B	211.5-214	211.85	0.0	74132721	0.0	--	23.41	212.98	1.13	1205	(Yes)	No
EW-B6	\	\	0.0	10243	0.0	5.0	44.85	190.90	\	1176	(Yes)	No
EPS WET WELL	--	--	0.0	Net: 2239070 Gross: 30659616	--	--	--	--	--	1154	(Yes)	No
MW-OB30	--	--	--	--	--	--	NG	NG	--	NG	Yes	No
MW-OB33	--	--	--	--	--	--	NG	NG	--	NG	Yes	No
MW-OB34	--	--	--	--	--	--	NG	NG	--	NG	Yes	No
MW-OB26	--	--	--	--	--	--	NG	NG	--	NG	Yes	No
AW-A14	--	--	--	--	--	--	16.91	219.91	--	1250	(Yes)	No
AW-B4	--	--	--	--	--	--	27.33	210.92	--	1227	(Yes)	No
AW-C11	--	--	--	--	--	--	41.69	190.76	--	1247	(Yes)	No
MH-4	--	--	--	--	--	--	18.55	220.31	--	1230	(Yes)	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	NG	Yes	No	Yes	No	~1.0' shown on Hillside
QUARRY	~1.0	Yes	(No)	(Yes)	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (If no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (If no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (If no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section)	Yes	(No)	Yes	(No)
6	Any visible site erosion? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (If yes, state details in notes section)	(Yes)	No	(Yes)	No
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39

1/23/19 @ 0924 LL level in Sump B - deactivated

Approx 10min between Sump B computer & actual readings (remote access is 0900)

Wells not gauged (NG) were not able to be located under the snow cover (~16")

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 01-28-2019
Time of visit: 9:45
O&M Tech(s): Nate Sabadosa

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation				
SUMP A	209.67-211.22	210.68	23.8	7,989,725	24.4	5.0	29.24	210.65	+0.03ft	12:58	(Yes)	No
SUMP B	211.5-214	211.95	~~18.0~~ 8.0	7,490,152 @9:54	0.0	--	24.39	212.00	-0.05ft	10:48	(Yes)	No
EW-B5	NA	NA	0.0	11452	0.0	5.0	44.70	191.05	NA	14:07	(Yes)	No
EPS WET WELL	--	--	87.8	Net: 2,490,370 Gross: 3,091,968	--	--	--	--	--	9:48	(Yes)	No
MW-OB30	--	--	--	--	--	--	8.00	217.71	--	12:00	(Yes)	No
MW-OB33	--	--	--	--	--	--	7.09	216.94	--	10:55	(Yes)	No
MW-OB34	--	--	--	--	--	--	11.92	211.66	--	12:49	(Yes)	No
MW-OB25	--	--	--	--	--	--	7.68	230.77	--	12:19	Yes	(No)
AW-A14	--	--	--	--	--	--	16.91	219.91	--	12:23	Yes	(No)
AW-B4	--	--	--	--	--	--	26.67	211.58	--	12:21	Yes	(No)
AW-C11	--	--	--	--	--	--	40.66	197.79	--	13:19	Yes	(No)
MH-4	--	--	--	--	--	--	18.59	220.27	--	12:26	(Yes)	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	~3.5	Yes	(No)	Yes	(No)	Ice surrounding gauge (10:59)
QUARRY	C1	Yes	(No)	Yes	(No)	Ice surrounding gauge (14:32)

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	(No)	Yes	(No)
6	Any visible site erosion? (if yes, state details in notes section)	(Yes)	No	(Yes)	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
10) No standing water but damp along NW corner of room (under and to the right if you're looking @ Panel)
11) No standing water but damp under staircase
6) Tree down ~~on~~ roadside fence right by fence leading to cement pond -> pictures sent to PP. Katie Angel.
- EW-B5 totalizer found to be in working condition
- Problems w/ ice accumulations

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 2/4/19
Time of visit: 0945
O&M Tech(s): Katelynn Forton

anteagroup

	WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	Time	Enclosure Locked/Well Sealed?	
B	~~SUMP A~~	209.67-211.22	212.18	0.0	7417079752	0.0	\	23.84	212.55	0.37	1023	Yes	No
A	~~SUMP B~~	211.5-214	211.16	0.0	80811432	0.0	--	28.53	211.36	0.20	1210	Yes	No
	EW-B5	\	\	1.2		1.2	5.0	45.92	189.83	\	1153	Yes	No
	EPS WET WELL	--	--	0.0	Net 2837970 Gross 31258559	--	--	--	--	--	1248	Yes	No
	MW-OB30	--	--	--	--	--	--	NA	NA	--	NA	Yes	No
	MW-OB33	--	--	--	--	--	--	NA	NA	--	NA	Yes	No
	MW-OB34	--	--	--	--	--	--	NA	NA	--	NA	Yes	No
	MW-OB25	--	--	--	--	--	--	8.43	229.82	--	1045	Yes	No
	AW-A14	--	--	--	--	--	--	16.41	220.41	--	1060	Yes	No
	AW-B4	--	--	--	--	--	--	21.97	211.33	--	1047	Yes	No
	AW-C11	--	--	--	--	--	--	40.68	197.77	--	1101	Yes	No
	MH-4	--	--	--	--	--	--	18.51	220.35	--	1053	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	N/A	Yes	No	Yes	No	Unsafe hillside cond.; snow
QUARRY	N/A	Yes	No	Yes	No	Gate blocked by plowed snow

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39

Could not gauge MW-OB30, OB33, OB34 due to collection of snowfall on hillside - unsafe conditions
#10 Small collection of water in ~~rig~~ corner, right of control box
#7 Fire extinguishers up for annual inspection
tree still down in upper field
#11 Small collection of water - mostly damp / not standing

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: February 11, 2019
Time of visit: 10:30
O&M Tech(s): Nate Sandrick, Kelsey Brennan

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	10.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.65	0.0	81721573	0.0	5.0	28.97	210.94	+0.01	Yes	11:30	Yes	No
SUMP B	211.50-212.11	210.82-212.11	0.0	7932285	0.0	-	23.95	212.44	-0.03	Yes	10:43	Yes	No
EW-B5	187.65-193.95	--	0.0	14950	0.0	5.0	42.44	~~5.85~~ 193.81	+2.90	NO	12:07	Yes	No
EPS WET WELL	--	--	79.3	Net: 31887 50 Gross: 31609349	--	--	--	--	--	--	10:48	Yes	No
Lift Station	--	--	--	--	--	--	*See below	--	--	--	13:45	Yes	No
MW-OB30	--	--	--	--	--	--	8.00	217.71	--	--	12:57	Yes	No
MW-OB33	--	--	--	--	--	--	6.96	217.07	--	--	12:32	Yes	No
MW-OB34	--	--	--	--	--	--	11.87	211.71	--	--	12:36	Yes	No
MW-OB25	--	--	--	--	--	--	7.86	231.09	--	--	13:08	Yes	No
AW-A14	--	--	--	--	--	--	16.79	220.03	--	--	13:11	Yes	No
AW-B4	--	--	--	--	--	--	26.76	211.49	--	--	13:10	Yes	No
AW-C11	--	--	--	--	--	--	40.44	198.01	--	--	13:03	Yes	No
MH-4	--	--	--	--	--	--	18.59	220.35	--	--	13:13	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.00	Yes	No	Yes	No	
QUARRY	0.4	Yes	No	Yes	No	Frozen over

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

- Well closest to panel → 4.60 ft
- ~~Well~~ Second well from panel → 6.58 ft } Lift Station
- Could not open third well from panel (locked)

6) Tree down on hill between pumphouse and trailer. Weight of tree mainly on POTW pipe but also pushing down electrical lines

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: February 18, 2019
Time of visit: 10:45
O&M Tech(s): Nate Szmadzinik, Kelsey Brennan

16739

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	210.47	0.0	82683554	0.0	5	20.44	210.44	-.03	yes	11:37	Yes	No
SUMP B	216.5-214	213.59	0.0	75141844	0	-	22.71	213.68	.09	yes	11:29	Yes	No
EW-B5	187.65-193.95	-	0	[illegible]	0	5	45.80	189.95	N/A	N/A	12:52	Yes	No
EPS WET WELL	-	-	0	Net: 3529980 Gross: 31950566	-	-	-	-	-	-	10:58	Yes	No
Lift Station	-	-	-	-	-	-	NG	-	-	-	NG	Yes	No
MW-OB30	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No
MW-OB33	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No
MW-OB34	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No
MW-OB25	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No
AW-A14	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No
AW-B4	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No
AW-C11	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No
MH-4	-	-	-	-	-	-	NG	NG	-	-	NG	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	NG	Yes	No	Yes	No	-Too much snow on hill to go down
QUARRY	NG	Yes	No	Yes	No	Did not go to gauge due to snow

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

* Snow began a little before arriving to site and gained intensity throughout time.
Call to PM @ 12:15 to notify of difficulty driving around site & that forecast continues pushing back when snow will end → determined we will get EW-B5 sample and depart site

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

antea group

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 2/26 - 2/27/19
Time of visit: 1100
O&M Tech(s): Garrett Crowe

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	211.32	24.60	8357747	25.70	5	28.70	211.19	0.03	Y	1357	Yes	No
SUMP B	—	213.84	0.00	7540658	0.0	-	22.52	213.87	0.03	Y	1322	Yes	No
EW-B5	187.65-193.95	-	0	NM	0	5	44.44	191.31	NM	NM	1439	Yes	No
EPS WET WELL	-	-	80.60	Net: 273340 Gross: 3234 3150	-	-	-	-	-	-	1310	Yes	No
Lift Station	-	-	-	-	-	-	NM	-	-	-	NM	Yes	No
MW-OB30	-	-	-	-	-	-	8.05	217.66	-	-	1530	Yes	No
MW-OB33	-	-	-	-	-	-	7.25	216.78	-	-	1515	Yes	No
MW-OB34	-	-	-	-	-	-	12.76	210.82	-	-	1335	Yes	No
MW-OB25	-	-	-	-	-	-	11.35	230.18	-	-	917	Yes	No
AW-A14	-	-	-	-	-	-	36.10	214.92	-	-	905	Yes	No
AW-B4	-	-	-	-	-	-	28.01	210.24	-	-	907	Yes	No
AW-C11	-	-	-	-	-	-	41.98	196.47	-	-	916	Yes	No
MH-4	-	-	-	-	-	-	18.60	220.26	-	-	910	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.0	Yes	No	Yes	No	1326
QUARRY	0.11	Yes	No	Yes	No	1215

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) NM	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

EW-B5: all probes appear to be working but transducer was off by 2.5', 5', 2.5' the previous 3 visits

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Inc.

Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 3/6/19

Time of visit: 1100

O&M Tech(s): Garrett C Kelsey B.

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	210.97	0.0	84311993	0.0	5	29.07	210.82	0.08	Yes	1219	(Yes)	No
SUMP B	—	212.26	0.0	76600894	0.0	-	24.10	212.29	0.03	Yes	1216	(Yes)	No
EW-B5	187.65-193.95	187.82	0.0	22418	1.0	NM	48.04	187.71	.11	NO	1249	(Yes)	No
EPS WET WELL	-	-	60.5	Net: 55 3460 Gross: 52633380	-	-	-	-	-	-	1120	(Yes)	No
Lift Station	-	-	-	-	-	-	NM	-	-	-	NM	(Yes)	No
MW-OB36	-	-	-	-	-	-	8.11	217.60	-	-	1545	(Yes)	No
MW-OB33	-	-	-	-	-	-	7.48	216.55	-	-	1524	(Yes)	No
MW-OB34	-	-	-	-	-	-	15.02	210.56	-	-	1530	(Yes)	No
MW-OB25	-	-	-	-	-	-	23.7	236.13	-	-	1615	(Yes)	No
AW-A14	-	-	-	-	-	-	16.93	219.89	-	-	1520	(Yes)	No
AW-B4	-	-	-	-	-	-	15.03	210.22	-	-	1519	(Yes)	No
AW-C11	-	-	-	-	-	-	42.08	196.37	-	-	1531	(Yes)	No
MH-4	-	-	-	-	-	-	18.62	220.24	-	-	1517	(Yes)	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	2.80	Yes	(No)	Yes	(No)	1305
QUARRY	0.50	Yes	(No)	Yes	(No)	1155

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (If no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (If no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section) N/A	Yes	No	Yes	No
6	Any visible site erosion? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

1) main gate lock lost in snow will need replacement

4) did not check due to snow

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revisee By: CC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 3/11
Time of visit:
O&M Tech(s): Kelsey Brennan

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.23	211.14	0.0	NM	NM		NM	NM				Yes	No
SUMP B		213.8	0.0	7524526	-	-	22.59	213.8	.06		1206	Yes	No
EW-B5	187.65-193.95	-	0.0	0002400 2"			43.24	192.51			1230	Yes	No
EPS WET WELL	-	-	0.0	Net: 735540 Gross: 3281544	-	-	-	-	-	-		Yes	No
Lift Station	-	-	-	-	-	-		-	-	-		Yes	No
MW-OB30	-	-	-	-	-	-	10.26	215.45	-	-	1300	Yes	No
MW-OB33	-	-	-	-	-	-	7.51	216.52	-	-	1315	Yes	No
MW-OB34	-	-	-	-	-	-	13.09	210.49	-	-	1330	Yes	No
MW-OB25	-	-	-	-	-	-	NM		-	-		Yes	No
AW-A14	-	-	-	-	-	-	NM		-	-		Yes	No
AW-B4	-	-	-	-	-	-	NM		-	-		Yes	No
AW-C11	-	-	-	-	-	-	NM		-	-		Yes	No
MH-4	-	-	-	-	-	-	NM		-	-		Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER		Yes	No	Yes	No	
QUARRY		Yes	No	Yes	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Mifi wasn't working with my computer - Kelsey

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 3/18/19
Time of visit: 800
O&M Tech(s): Garrett Clouse

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	210.68	0	8579980	0	—	29.23	210.66	0.02	Yes	1048	Yes	No
SUMP B	—	212.48	0	15941124	0	-	24.00	212.39	0.10	Yes	1041	Yes	No
EW-B5	187.65-193.95	-	0	25,722	0	—	44.11	~~NM~~	NA	NA	1211	Yes	No
EPS WET WELL	-	-	85.0	Net: 10522.39 Gross: ~~35321470~~ 33132.1117	-	-	-	191.64	-	-	1430	Yes	No
Lift Station	-	-	-	-	-	-	NA	-	-	-	NA	Yes	No
MW-OB30	-	-	-	-	-	-	8.78	216.93	-	-	1150	Yes	No
MW-OB33	-	-	-	-	-	-	6.73	217.30	-	-	1131	Yes	No
MW-OB34	-	-	-	-	-	-	12.10	211.48	-	-	1127	Yes	No
MW-OB25	-	-	-	-	-	-	7.75	230.70	-	-	1150	Yes	No
AW-A14	-	-	-	-	-	-	15.98	220.84	-	-	1154	Yes	No
AW-B4	-	-	-	-	-	-	27.60	210.65	-	-	1142	Yes	No
AW-C11	-	-	-	-	-	-	41.60	196.85	-	-	1148	Yes	No
MH-4	-	-	-	-	-	-	18.77	220.09	-	-	1157	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.0	Yes	No	Yes	No	1122
QUARRY	0.50	Yes	No	Yes	No	1145

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (If no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (If no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section) NA	Yes	No	Yes	No
6	Any visible site erosion? (If yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (If yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (If yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 3/05/19
Time of visit: 1036
O&M Tech(s): Garrett Crowe

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	210.90	00	8657442	0.0	-	29.01	210.88	0.02	Yes	1045	(Yes)	No
SUMP B		212.56	0.0	76158,001	0.	-	23.89	212.50	0.06	Yes	1105	(Yes)	No
EW-B5	187.65-193.95	-	0.0	28152	-	✓	45.00	190.75	N/A	N/A	1115	(Yes)	No
EPS WET WELL	-	-	0.0	Net: 1278384 Gross: 33358297	-	-	-	-	-	-	1245	Yes	No
Lift Station	-	-	-	-	-	-	N/A	-	-	-	N/A	Yes	No
MW-OB30	-	-	-	-	-	-	8.80	216.91	-	-	1155	Yes	No
MW-OB33	-	-	-	-	-	-	7.01	217.02	-	-	1190	Yes	No
MW-OB34	-	-	-	-	-	-	12.35	211.73	-	-	1123	Yes	No
MW-OB25	-	-	-	-	-	-	7.82	230.63	-	-	1205	Yes	No
AW-A14	-	-	-	-	-	-	16.12	220.76	-	-	1211	Yes	No
AW-B4	-	-	-	-	-	-	27.54	216.71	-	-	1206	Yes	No
AW-C11	-	-	-	-	-	-	43.62	195.83	-	-	1207	Yes	No
MH-4	-	-	-	-	-	-	18.70	220.16	-	-	1209	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.00	Yes	(No)	Yes	(No)	43.1124
QUARRY	0.50	Yes	(No)	Yes	(No)	1336

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	(No)	Yes	(No)
6	Any visible site erosion? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 4/1/19
Time of visit: 1000
O&M Tech(s): Katelyn Foster

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	~~212.52~~ 212.52	0	~~87369478~~	0		~~28.81~~ 28.69	~~211.08~~ 211.20	~~1.88~~	Y	~~1026~~ 1215	Yes	No
SUMP B		212.94	0	76876795	0	-	~~23.87~~ 23.71	~~212.52~~ 213.68	~~.42~~	Y	1015	Yes	No
EW-B5	187.65-193.95	-	0	3040	0		43.14	192.61	-.06	N	1152	Yes	No
EPS WET WELL	-	-	0	Net: 1776120 Gross: 33856029	X	-	-	-	-	-		Yes	No
Lift Station	-	-	-	-	-	-	4.46	-	-	-	1320	Yes	No
MW-OB30	-	-	-	-	-	-	8.87	216.84	-	-	1305	Yes	No
MW-OB33	-	-	F	-	-	-	7.29	226.74	-	-	1313	Yes	No
MW-OB34	-	-	-	-	-	-	12.42	211.16	-	-	1233	Yes	No
MW-OB25	-	-	-	-	-	-	7.51	280.94	-	-	1043	Yes	No
AW-A14	-	-	-	-	-	-	16.79	220.03	-	-	1050	Yes	No
AW-B4	-	-	-	-	-	-	27.51	210.74	-	-	1045	Yes	No
AW-C11	-	-	-	-	-	-	43.18	195.27	-	-	1055	Yes	No
MH-4	-	-	-	-	-	-	18.46	220.4	-	-	1046	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3 Ft	Yes	No	Yes	No	1230
QUARRY	NG rusted lock	Yes	No	Yes	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	(No)	Yes	(No)
6	Any visible site erosion? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (if yes, state details in notes section)	(Yes)	No	(Yes)	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Sump A DTW 28.69. Time = 1215
Actual Groundwater elevation 211.20
Computer Groundwater elevation = 211.22
Difference .02. Orginal difference in readings was due to radio transmission between transducer and software.

See monthly inspection checklist regarding trees.

Sump B computer water level 213.6
Actual water level 213.68
DTW 22.71
Time 1225

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 4/10/19
Time of visit:
O&M Tech(s): Kelsey Brennan

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.40	23.5	8882640	0		29.24	210.65			1343	Yes	No
SUMP B		212.92	90.4	766775941	99.1	-	24.35	212.04			1343	Yes	No
EW-B5	187.65-193.95	-	0	33035	0		45.80	189.76			1520	Yes	No
EPS WET WELL	-	-	70	Net: 2236850 Gross: 34316780	-	-	-	-	-	-	1340	Yes	No
Lift Station	-	-	-	-	-	-	6.5	-	-	-	1400	Yes	No
MW-OB30	-	-	-	-	-	-	7.79	217.92	-	-	1640	Yes	No
MW-OB33	-	-	-	-	-	-	10.56	213.47	-	-	1430	Yes	No
MW-OB34	-	-	-	-	-	-	17.91	208.67	-	-	1430	Yes	No
MW-OB25	-	-	-	-	-	-	6.69	231.76	-	-	1600	Yes	No
AW-A14	-	-	-	-	-	-	16.45	220.37	-	-	1500	Yes	No
AW-B4	-	-	-	-	-	-	25.61	212.64	-	-	1500	Yes	No
AW-C11	-	-	-	-	-	-	40.60	197.85	-	-	1505	Yes	No
MH-4	-	-	-	-	-	-	18.21	220.65	-	-	1500	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	5.85	Yes	No	Yes	No	
QUARRY		Yes	No	Yes	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?				

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 4/15/19
Time of visit: 1400
O&M Tech(s): Kelsey Brennan

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI	DTW	GW Elevation					
SUMP A	210.23-211.22											Yes	No
SUMP B												Yes	No
EW-B5	187.65-193.95											Yes	No
EPS WET WELL	–	–		Inst: / Cross:	–	–	–	–	–	–		Yes	No
Lift Station	–	–	–	–	–	–		–	–	–		Yes	No
MW-OB30	–	–	–	–	–	–			–	–		Yes	No
MW-OB33	–	–	–	–	–	–			–	–		Yes	No
MW-OB34	–	–	–	–	–	–			–	–		Yes	No
MW-OB25	–	–	–	–	–	–			–	–		Yes	No
AW-A14	–	–	–	–	–	–			–	–		Yes	No
AW-B4	–	–	–	–	–	–			–	–		Yes	No
AW-C11	–	–	–	–	–	–			–	–		Yes	No
MH-4	–	–	–	–	–	–			–	–		Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER		Yes	No	Yes	No	
QUARRY		Yes	No	Yes	No	–

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

* System down upon arrival → AC power failure on 4/14 and sump A + EW-B5 started normally w/ remote restart but Sump B would not restart

- no circuit breakers in the pump house or Generator shed were tripped
- VFD alarms for sump B were cleared and Reset at local pannel as well as up at the pump house
- Sump B restart and up and running

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

antea group

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 4/23/19
Time of visit:
O&M Tech(s): Kelsey Brennan

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
* SUMP A	210.23-211.22	212.10	~~24.2~~ 24.6	90967222	24.5		25.00	214.89			1435	Yes	No
* SUMP B		213.1	0.0	77029C46	0.00	-	15.1	221.29			1410	Yes	No
EW-B5	187.65-193.95	-	0	34552	0.0		26.62	209.13			1418	Yes	No
EPS WET WELL	-	-	77.8	Net: 465850 Gross: 34994881	-	-	-	-	-	-	1423	Yes	No
Lift Station	-	-	-	-	-	-	6.06	-	-	-	1330	Yes	No
MW-OB30	-	-	-	-	-	-	6.68	219.03	-	-		Yes	No
MW-OB33	-	-	-	-	-	-	5.50	218.53	-	-	1405	Yes	No
MW-OB34	-	-	-	-	-	-	8.21	215.37	-	-	1350	Yes	No
MW-OB25	-	-	-	-	-	-	6.35	231.6	-	-	1426	Yes	No
AW-A14	-	-	-	-	-	-	16.75	221.07	-	-	1422	Yes	No
AW-B4	-	-	-	-	-	-	22.65	218.7	-	-	1420	Yes	No
AW-C11	-	-	-	-	-	-	38.05	200.4	-	-	1417	Yes	No
MH-4	-	-	-	-	-	-	17.50	221.36	-	-	1423	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	Blocked by twigs	Yes	No	Yes	No	Stuck floating twiggy-trash log
QUARRY	1.1	Yes	No	Yes	No	

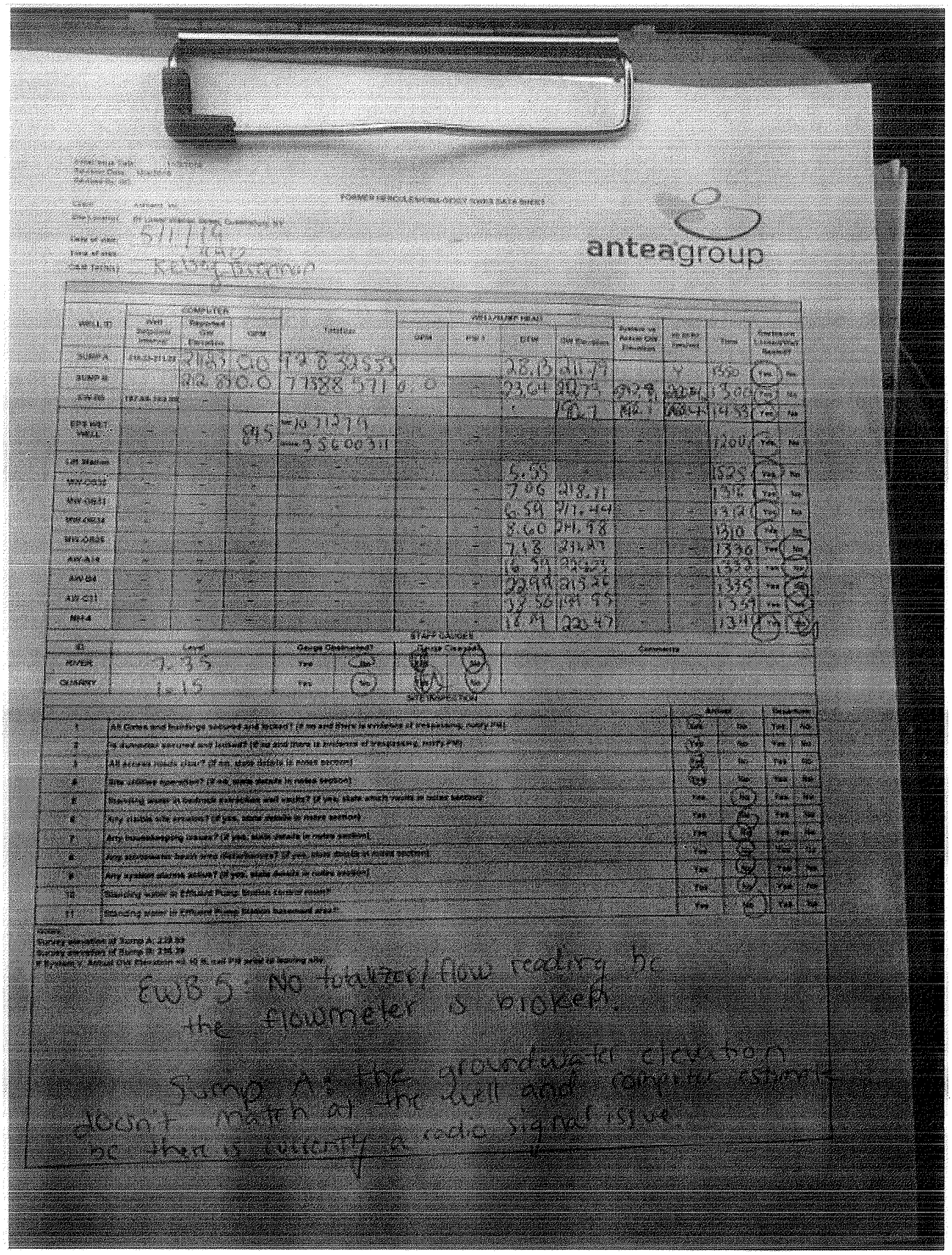
SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Alarm: Sump B not running for 7 12 hrs

*Reported GW elevation from a different time due to not using remote access. Will use next time - sorry! - Kelsey



anteagroup

Date of visit: 5/1/19

Time of visit: 10:42

Date finished: 5/1/19 11:55

WELL ID	DIP (Depth to Water)	Reported Well Elevation	Time	Initials	DATE	TIME	DTW (Depth to Water)	GW Elevation	Access or Pump Obstruction	Air Purge Required	Time	Groundwater Collected (Yes/No)
SUMP A	28.10	210.00	12:03				28.10	181.90			1550	Yes
SUMP B	23.64	210.00	11:58				23.64	186.36			1450	Yes
EWS-05	10.1	195.00	11:55				10.1	184.9			1435	Yes
EWS-06	-	-	-				-	-			1200	Yes
Lift Station	-	-	-				-	-			1325	Yes
MW-08S	-	-	-				6.58				1318	Yes
MW-08D	-	-	-				7.06	218.31			1314	Yes
MW-09S	-	-	-				6.58	171.40			1310	Yes
MW-09D	-	-	-				8.60	211.98			1330	Yes
MW-10S	-	-	-				7.58	211.89			1332	Yes
MW-10D	-	-	-				16.59	202.23			1335	Yes
MW-11S	-	-	-				22.99	213.26			1339	Yes
MW-11D	-	-	-				22.56	191.55			1340	Yes
RW-1	-	-	-				16.91	220.47			1345	Yes

ID	Time	Gauge Observed?	Tape Obtained?	Comments
RIVER	1:35	Yes (No)	Yes (No)	
GATEWAY	1:15	Yes (No)	Yes (No)	

		Action		Response	
1	All doors and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	All domestic secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (If no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operational? (If no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bunded areas/pits and vaults? (If yes, state which bunds in notes section)	Yes	No	Yes	No
6	Any debris in/on ground? (If yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	No	Yes	No
8	Any contractor work in progress? (If yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (If yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 228.00
Survey elevation of Sump B: 234.58
If System V, Actual dip observation vs. (d) is out the area of leaving site

EWS-5 - No totalizer flow reading bc the flowmeter is broken.

Sump A's the groundwater elevation doesn't match at the well and computer system bc there is currently a radio signal issue

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 05-06-2019
Time of visit: 9:30
O&M Tech(s): Nate Subadmit IC

anteagroup

→ Totalizer up @ pump station → read 91.4 gpm @ 9:55

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	214.98	24.3	93766350	24.2	5	24.91	214.98	+0.00	Yes	12:30	Yes	No
SUMP B	211.5-214.0	213.84	91.3	77,588,736 (9:55)	NA	--	23.27	213.12	+0.02	Yes	10:13	Yes	No
* EW-B5	187.65-193.95	--	6.1	NA → Screen dead	NA → screen did not turn on	75	50.53	185.22	NA	NA	10:36	Yes	No
EPS WET WELL	--	--	87.5	Net: 1393310 / Gross: 35922329	--	--	--	--	--	--	9:54	Yes	No
Lift Station	--	--	--	--	--	--	NG	--	--	--	NG	Yes	No
MW-OB30	--	--	--	--	--	--	7.49	218.22	--	--	12:47	Yes	No
MW-OB33	--	--	--	--	--	--	6.85	217.18	--	--	10:27	Yes	No
MW-OB34	--	--	--	--	--	--	9.93	213.65	--	--	10:25	Yes	No
MW-OB25	--	--	--	--	--	--	7.17	231.28	--	--	14:08	Yes	No
AW-A14	--	--	--	--	--	--	16.60	220.22	--	--	14:10	Yes	No
AW-B4	--	--	--	--	--	--	24.58	213.67	--	--	14:09	Yes	No
AW-C11	--	--	--	--	--	--	39.24	199.21	--	--	14:07	Yes	No
MH-4	--	--	--	--	--	--	18.35	220.51	--	--	14:12	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	5.6	Yes	No	Yes	No	@ 10:29
QUARRY	NG	Yes	No	Yes	No	NG

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

→ New totalizer installed @ 0 → 62 upon departure

(screen didn't turn on)

*EW-B5
- Replace totalizer → Tried totalizer from EW-A14 first, which didn't work, then totalizer from EW-A9, which turned on but very faint + hard to read. EW-A14 totalizer returned to EW-A14 and original broken EW-B5 totalizer put in EW-A9
- w/ open ball valve → pump turns on @ set point @ ~12.5 gpm but does not shut off
- w/ throttled back flow → pump turns on @ set point @ 2.3 gpm + 75 psi but does not shut off → Comp read 3.8 gpm

- Each time turning pump off for an extended period only thing to reset pump → quick switch did not reset pump.
- Runs dry ~ 50.65'
- Comp does not register low-low until after manual off/on reset
- Pump left on upon departure

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 5/3/19
Time of visit: 0930
O&M Tech(s): Katelynn Foster

	WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
B	~~SUMP A~~	210.23-211.22	212.18	89.6	77875167	89.6	—	24.19	212.20	±0.02		1007	Yes	No
A	~~SUMP B~~		212.82	24.1	941980679	24.2	4.10	27.07	212.82	±0.0		1015	Yes	No
*	EW-B5	187.65-193.95	–	1.5	561.0	1.5	80	38.80	196.95			1211	Yes	No
	EPS WET WELL	–	–	119.5	Net: 18441330 Gross: 363733360	–	–	–	–	–	–	1119	Yes	No
	Lift Station	–	–	–	–	–	–	4.55	–	–	–	1105	Yes	No
	~~MW-OB30~~	–	–	–	–	–	–	8.04	217.07	–	–	1030	Yes	No
	~~MW-OB33~~	–	–	–	–	–	–	7.20	216.83	–	–	1048	Yes	No
	MW-OB34	–	–	–	–	–	–	11.70	211.88	–	–	1051	Yes	No
	MW-OB25	–	–	–	–	–	–	7.61	220.09	220.84	–	1033	Yes	No
	AW-A14	–	–	–	–	–	–	16.73	220.04	–	–	1037	Yes	No
	AW-B4	–	–	–	–	–	–	26.46	211.79	–	–	1038	Yes	No
	AW-C11	–	–	–	–	–	–	40.44	198.01	–	–	1036	Yes	No
	MH-4	–	–	–	–	–	–	18.71	220.15	–	–	1039	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.25'	Yes	No	Yes	No	@ 1053
QUARRY	0.83'	Yes	No	Yes	No	@ 1000

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

5/3/19 @ 1049 HH Level Sump A

* EW-B5 was turned off on arrival, called Cody H.

41.80
2198

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 5/20/19
Time of visit: 1300
O&M Tech(s): Katelyn F.

anteagroup

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?
SUMP A	210.23-211.22	NA	NA	9599897	0.0	0	25.77	214.12	NA	NA	1300	Yes / No
SUMP B	\	217.89	94.7	78119461	94.7	-	18.61	217.78	±0.02	±0.02	1228	Yes / No
EW-B5	187.65-193.95	-	NA	7200	0.6	7.5	44.13	191.62	—	—	1430	Yes / No
EPS WET WELL	-	-	88	Net: 67870. Gross: 36749300	-	-	-	-	-	-	1517	Yes / No
Lift Station	-	-	-	-	-	-	4.60	-	-	-	1428	Yes / No
MW-OB30	-	-	-	-	-	-	7.80	217.91	-	-	1310	Yes / No
MW-OB33	-	-	-	-	-	-	6.60	217.43	-	-	1250	Yes / No
MW-OB34	-	-	-	-	-	-	11.16	212.42	-	-	1247	Yes / No
MW-OB25	-	-	-	-	-	-	6.63	731.82	-	-	1328	Yes / No
AW-A14	-	-	-	-	-	-	16.29	220.53	-	-	1330	Yes / No
AW-B4	-	-	-	-	-	-	25.73	212.52	-	-	1329	Yes / No
AW-C11	-	-	-	-	-	-	40.22	198.23	-	-	1327	Yes / No
MH-4	-	-	-	-	-	-	18.31	220.55	-	-	1331	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	4.46'	Yes	No	Yes	No	@ 1245
QUARRY	0.13 1.33	Yes	No	Yes	No	@ 1505

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

May 19, 2019 @ 1018 HH Level Sump B → still active on 5/20 Will check on 5/21
Sump A radio frequency lapse due to power outage - CH knows

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 05-28-2019
Time of visit: 9:30
O&M Tech(s): Nate Suhadolnik

antea group

NS EW-B5 192.35
NS Sump A 212.18
NS Sump B 220.85
-7.03 ft Sump B

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation (ft)	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	212.18	24.2	9,724,021	24.5	10	27.71	~~211.82~~	40.00	Yes	10:52	Yes	No
SUMP B	211.5-214	213.82	0.0	18207100 16 Gen @ -9:43	0.0	-	15.54	~~220.85~~ NS	~~8.29~~	~~No~~	10:00	Yes	No
EW-B5	187.65-193.95	-	0.0	2,486	0.0	75	43.4	~~191.63~~ NS	N/A	N/A	10:26	Yes	No
EPS WET WELL	-	-	0.0	Net: 303870 Gross: 36985287	-	-	-	-	-	-	9:45	Yes	No
Lift Station	-	-	-	-	-	-	4.5	-	-	-	11:37	Yes	No
MW-OB30	-	-	-	-	-	-	8.82	216.89	-	-	11:07	Yes	No
MW-OB33	-	-	-	-	-	-	6.16	217.87	-	-	10:11	Yes	No
MW-OB34	-	-	-	-	-	-	11.76	211.82	-	-	10:13	Yes	No
MW-OB25	-	-	-	-	-	-	7.64	230.81	-	-	11:18	Yes	No
AW-A14	-	-	-	-	-	-	16.21	220.61	-	-	11:14	Yes	No
AW-B4	-	-	-	-	-	-	26.19	211.76	-	-	11:16	Yes	No
AW-C11	-	-	-	-	-	-	40.52	197.93	-	-	11:20	Yes	No
MH-4	-	-	-	-	-	-	17.85	221.01	-	-	11:12	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?	Gauge Cleaned?	Comments
RIVER	3.6	Yes / No	Yes / No	Time: 10:16
QUARRY	1.2	Yes / No	Yes / No	Time: 11:46

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (If no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (If no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (If yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (If yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (If yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

- Active Alarms upon arrival: 1) HH Level Sump A @ 05-21-2019/09:04:05
  2) Sump B exhibited no flow for over 12 hours @ 05-22-2019/14:29:05
  Upon departure: 1) HH Level Sump B @ 05-28-2019/@ 10:01:01
- Sump B had been idle for 52+ hours + Computer was reporting GW elevation under by ~4 ft. NS notifies PP Katie Angl. NS performs hard restart of sump, which turns Pump on → will regauge
- EW-B5: Computer says EW-B5 has been running for 49+ hours but flow says 0.0 gpm. Flow meter in well reads 0.0 gpm but pressure @ 75 psi + pump sounds on. GW elevation w/in well interval. Hard reset @ 10:40 after pump stayed on after well was dry. Pump stayed off after, timer on computer reset, computer reading Low/low

- Sump B regauge @ 11:31

Computer Readings		Sump Head	
GW Elevation	GPM	DTW	GW Elevation
219.07	96.9	17.32	219.07

- Contractors from Department of Transportation on site today. There is a job coming up for them up route 32 where there have been right-of-way issues. They need to find the monuments of where the canal previously ran. NS given job number 1810.14

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: June 3, 2019
Time of visit: 10:00
O&M Tech(s): Nate Sinadinik

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI †	DTW	GW Elevation					
SUMP A	210.23-211.22	211.23	0.0	9811,706.2	0	0	27.51	212.38	1.15'	no	11:39	Yes	No
SUMP B	211.50-212.96	213.96	0.0	(18,444,657 - 10.22 - 0.0	--		22.41	213.98	-0.02	Yes	10:55	Yes	No
EW-B5	187.65-193.95	--	0.0	3.346	0.0	0	41.10	191.65	N/A	N/A	11:30	Yes	No
EPS WET WELL	--	--	0.0	Net: 252,040 Gross: 37,331,999	--	--	--	--	--	--	10:20	Yes	No
Lift Station	--	--	--	--	--	--	4.48	--	--	--	1230	Yes	No
MW-OB30	--	--	--	--	--	--	9.13	216.58	--	--	12:15	Yes	No
MW-OB33	--	--	--	--	--	--	7.17	216.86	--	--	11:03	Yes	No
MW-OB34	--	--	--	--	--	--	12.01	211.57	--	--	11:08	Yes	No
MW-OB25	--	--	--	--	--	--	7.19	230.66	--	--	12:19	Yes	No
AW-A14	--	--	--	--	--	--	16.63	220.19	--	--	12:23	Yes	No
AW-B4	--	--	--	--	--	--	26.92	211.33	--	--	12:18	Yes	No
AW-C11	--	--	--	--	--	--	40.97	197.48	--	--	12:20	Yes	No
MH-4	--	--	--	--	--	--	18.55	220.31	--	--	12:25	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.15	Yes	No	Yes	No	@ 11:09
QUARRY	3.1	Yes	No	Yes	No	@ 13:08

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

- Previously documented downed trees along fenceline still present, grass > knee high
- Ant nest on top of j-plug in MW-OB34
- Upon arrival to EW-B5, computer indicating pump has been running 3.5 hrs. Pump sounds on but there is no pressure in line → will come back (hard restart didn't work)
- Sump A > 1 ft off → call PM Cody Hume. System lost signal a while ago (known problem we're working on) → will not wait as we're not sure when signal is coming back
- Chris from waste water treatment plant onsite to conduct annual site inspection. Everything was good. He had not known about EW-B5 being brought online → NS tells him to call PM Cody Hume for reasoning so NS doesn't give wrong reasoning. Chris says he'll call later today or tomorrow.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 69 Lower Warren Street, Queensbury, NY

Date of visit: 6/11/19
Time of visit: 1000
O&M Tech(s): Garrett C, Haley B.

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.92	24.7	99147150	24.8	5-0	29.02	210.87	-0.05	Yes	1139	Yes	No
SUMP B	—	213.99	0.0	78774307	0.0	–	22.45	213.94	-0.05	Yes	1123	Yes	No
EW-B5	187.65-193.95	–	2.2	5831	2.2	75	43.31	190.44	NM	NM	1207	Yes	No
EPS WET WELL	–	–	0.0	Net: 720016 Gross: 37807967	–	–	–	–	–	–	1105	Yes	No
Lift Station	–	–	–	–	–	–	NM	216.43	–	–	NM	Yes	No
MW-OB30	–	–	–	–	–	–	4.28	190.44GC	–	–	1247	Yes	No
MW-OB33	–	–	–	–	–	–	8.46	215.57	–	–	1226	Yes	No
MW-OB34	–	–	–	–	–	–	12.15	211.45	–	–	1223	Yes	No
MW-OB25	–	–	–	–	–	–	8.11	230.34	–	–	1238	Yes	No
AW-A14	–	–	–	–	–	–	16.80	220.02	–	–	1241	Yes	No
AW-B4	–	–	–	–	–	–	26.97	211.28	–	–	1239	Yes	No
AW-C11	–	–	–	–	–	–	40.90	197.55	–	–	1237	Yes	No
MH-4	–	–	–	–	–	–	18.48	220.38	–	–	1243	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.6	Yes	No	Yes	No	1220
QUARRY	3.3	Yes	No	Yes	No	1345

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section) N/A	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

A Cement Pond high above bottom of perimeter fence
10) Some water on floor, likely due to rain
*Issues w/ locks on Sump A
4) Ant nest in MW-B4

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 6/17/19
Time of visit: 800
O&M Tech(s): Garrett Crowe

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	214.56	24.5	9978186	24.1	5	25.41	214.48	0.02	Y	1619	(Yes)	No
SUMP B		21548	0.0	79036809	0.0	–	23.96	21593	0.05	Y	1010	(Yes)	No
EW-B5	187.65-193.95	–	0.0	7932	0.0	–	47.89	187.86	NA	NA	849	(Yes)	No
EPS WET WELL	–	–	0.6	Net: – Gross: 38171001	–	–	–	–	–	–	830	(Yes)	No
Lift Station	–	–	–	–	–	–	N/A	–	–	–	NA	(Yes)	No
MW-OB30	–	–	–	–	–	–	8.85	216.86	–	–	945	(Yes)	No
MW-OB33	–	–	–	–	–	–	7.56	216.53	–	–	930	(Yes)	No
MW-OB34	–	–	–	–	–	–	11.85	211.63	–	–	932	(Yes)	No
MW-OB25	–	–	–	–	–	–	8.80	229.65	–	–	630	Yes	(No)
AW-A14	–	–	–	–	–	–	16.85	219.97	–	–	905	Yes	(No)
AW-B4	–	–	–	–	–	–	27.49	210.76	–	–	846	Yes	(No)
AW-C11	–	–	–	–	–	–	41.38	14707	–	–	835	Yes	(No)
MH-4	–	–	–	–	–	–	18.46	220.40	–	–	901	(Yes)	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.2	(Yes)	No	Yes	(No)	903
QUARRY	1.1	Yes	(No)	Yes	(No)	1015

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	(Yes)	No	(Yes)	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 6/24/19
Time of visit: 1100
O&M Tech(s): Garrett Crowl

anteagroup

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	211.19	0	1006718	0	0	28.74	211.15	0.04	Y	1129	Yes	No
SUMP B		211.59	181	79287311	0	–	24.74	211.65	0.07	Y	1124	Yes	No
EW-B5	187.65-193.95	–	N6	~~5811~~ 9911	0	0	47.18	188.57	N6	<	1125	Yes	No
EPS WET WELL	–	–	0	Net: 434420 Gross: 385 34461	–	–	–	–	–	–	1411	Yes	No
Lift Station	–	–	–	–	–	–	N6	–	–	–	N6	Yes	No
MW-OB30	–	–	–	–	–	–	8.97	216.74	–	–	1256	Yes	No
MW-OB33	–	–	–	–	–	–	7.25	216.78	–	–	1208	Yes	No
MW-OB34	–	–	–	–	–	–	11.75	211.83	–	–	1204	Yes	No
MW-OB25	–	–	–	–	–	–	7.55	230.90	–	–	1232	Yes	No
AW-A14	–	–	–	–	–	–	16.71	220.91	–	–	1243	Yes	No
AW-B4	–	–	–	–	–	–	26.51	211.74	–	–	1236	Yes	No
AW-C11	–	–	–	–	–	–	49.95	197.50	–	–	1220	Yes	No
MH-4	–	–	–	–	–	–	18.42	208.94	–	–	1240	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	4.30	Yes	No	Yes	No	
QUARRY	1.26	Yes	No	Yes	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (If no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (If no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (If yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (If yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (If yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

antea group

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 7/1/19
Time of visit: 1040
O&M Tech(s): Hailey Brown

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	10.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?
SUMP A	210.23-211.22	210.60	24.2	10151310	23.9	20.0	29.30	210.59	0.01	Y	1230	Yes / No
SUMP B	X	213.75	0.0	79571288	93.4	-	22.64	213.75	0.0	Y	1100	Yes / No
EW-B5	187.65-193.95	-	0.0	11264	0.0	0.0	47.03	188.72	N/A	N/A	1200	Yes / No
EPS WET WELL	-	-	73.7	Net: 826540 Gross: 38926601	-	-	-	-	-	-	1306	Yes / No
Lift Station	-	-	-	-	-	-	NG	-	-	-	NG	Yes / No
MW-OB30	-	-	-	-	-	-	4.06	216.65	-	-	1245	Yes / No
MW-OB33	-	-	-	-	-	-	7.42	216.61	-	-	1135	Yes / No
MW-OB34	-	-	-	-	-	-	12.70	210.88	-	-	1130	Yes / No
MW-OB25	-	-	-	-	-	-	8.21	230.24	-	-	1210	Yes / No
AW-A14	-	-	-	-	-	-	16.82	220.00	-	-	1215	Yes / No
AW-B4	-	-	-	-	-	-	27.48	210.77	-	-	1213	Yes / No
AW-C11	-	-	-	-	-	-	41.45	197.00	-	-	1205	Yes / No
MH-4	-	-	-	-	-	-	18.48	220.38	-	-	1218	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?	Gauge Cleaned?	Comments
RIVER	3.10	Yes / No	Yes / No	@1125
QUARRY	1.70	Yes / No	Yes / No	@1325

SITE INSPECTION

		Arrival	Departure
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes / No	Yes / No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes / No	Yes / No
3	All access roads clear? (if no, state details in notes section)	Yes / No	Yes / No
4	Site utilities operation? (if no, state details in notes section)	Yes / No	Yes / No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes / No	Yes / No
6	Any visible site erosion? (if yes, state details in notes section)	Yes / No	Yes / No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes / No	Yes / No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes / No	Yes / No
9	Any system alarms active? (if yes, state details in notes section)	Yes / No	Yes / No
10	Standing water in Effluent Pump Station control room?	Yes / No	Yes / No
11	Standing water in Effluent Pump Station basement area?	Yes / No	Yes / No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

- EW-B5 Ant infestation, door doesn't close properly, need new totalizer screen
- Gate w/ access to MWOB30 damaged & difficult to open
#6 groundhog holes in upper field

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 7/8/19
Time of visit: 1100
O&M Tech(s): Katelyn F.

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?
SUMP A	210.23-211.22	210.68	24.5	10224092	24.5	8.0	29.31	210.58	±0.10	N	1146	Yes / No
SUMP B	211.5-214	213.49	81.7	79853990	81.7	-	22.82	213.57	±0.08	N	1315	Yes / No
EW-B5	187.65-193.95	-	1.8	13625	1.8	70	42.71	193.65			1254	Yes / No
EPS WET WELL	-	-	83.5	Net: 1213420 Gross: 39313488	-	-	-	-	-	-	1330	Yes / No
Lift Station	-	-	-	-	-	-	4.34	-	-	-	1231	Yes / No
MW-OB30	-	-	-	-	-	-	9.91	215.80	-	-	1123	Yes / No
MW-OB33	-	-	-	-	-	-	7.56	216.47	-	-	1212	Yes / No
MW-OB34	-	-	-	-	-	-	13.31	210.27	-	-	1215	Yes / No
MW-OB25	-	-	-	-	-	-	8.57	229.88	-	-	1135	Yes / No
AW-A14	-	-	-	-	-	-	16.85	219.97	-	-	1140	Yes / No
AW-B4	-	-	-	-	-	-	28.23	210.02	-	-	1136	Yes / No
AW-C11	-	-	-	-	-	-	41.95	196.50	-	-	1133	Yes / No
MH-4	-	-	-	-	-	-	18.51	220.35	-	-	1141	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?	Gauge Cleaned?	Comments
RIVER	2.30	Yes / No	Yes / No	@ 1218
QUARRY	1.85	Yes / No	Yes / No	@ 1352

SITE INSPECTION

		Arrival	Departure
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes / No	Yes / No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes / No	Yes / No
3	All access roads clear? (if no, state details in notes section)	Yes / No	Yes / No
4	Site utilities operation? (if no, state details in notes section)	Yes / No	Yes / No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes / No	Yes / No
6	Any visible site erosion? (if yes, state details in notes section)	Yes / No	Yes / No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes / No	Yes / No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes / No	Yes / No
9	Any system alarms active? (if yes, state details in notes section)	Yes / No	Yes / No
10	Standing water in Effluent Pump Station control room?	Yes / No	Yes / No
11	Standing water in Effluent Pump Station basement area?	Yes / No	Yes / No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

@1315 KF turns on Sump B manually - pump had been idle for >4.0 hours and was increasing ~0.10'/hour; BWE was 213.70 before switching on. Switched back to 'auto' @1320

@1339 KF turns on EPS wet well manually - pump had been idle for ~3.5 hours - to take gpm data
@1342 KF turns eps wet well back to 'auto'.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 69 Lower Warren Street, Queensbury, NY
Date of visit: 7/15/19
Time of visit: 1045
O&M Tech(s): Haley Brown

anteagroup

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?
SUMP A	210.23-211.22	210.60	0.0	10288681	0.0	0.0	29.31	210.58	±0.02	N	1225	Yes / No
SUMP B	2115-214	213.21	93.0	80141623	0.0	–	23.11	213.28	±0.07	N	1100	Yes / No
EW-B5	187.65-193.95	–	0.0	15789	0.0	0.0	42.21	193.54			1150	Yes / No
EPS WET WELL	–	–	85.40	Net: 1584970 Gross: 39685039	–	–	–	–	–	–	1238	Yes / No
Lift Station	–	–	–	–	–	–	NM	–	–	–	N/A	Yes / No
MW-OB30	–	–	–	–	–	–	9.91	~~219.83~~ 215.80	–	–	9125	Yes / No
MW-OB33	–	–	–	–	–	–	9.27	~~223.53~~ 214.76	–	–	1120	Yes / No
MW-OB34	–	–	–	–	–	–	14.50	209.08	–	–	1115	Yes / No
MW-OB25	–	–	–	–	–	–	8.74	221.71	–	–	1205	Yes / No
AW-A14	–	–	–	–	–	–	16.89	219.93	–	–	1220	Yes / No
AW-B4	–	–	–	–	–	–	29.66	208.59	–	–	1210	Yes / No
AW-C11	–	–	–	–	–	–	43.05	195.40	–	–	1200	Yes / No
MH-4	–	–	–	–	–	–	18.51	220.35	–	–	1215	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?	Gauge Cleaned?	Comments
RIVER	1.00	Yes / No	Yes / No	@ 1110
QUARRY	2.80	Yes / No	Yes / No	@ 1315

SITE INSPECTION

		Arrival	Departure
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes / No	Yes / No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes / No	Yes / No
3	All access roads clear? (if no, state details in notes section)	Yes / No	Yes / No
4	Site utilities operation? (if no, state details in notes section)	Yes / No	Yes / No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes / No	Yes / No
6	Any visible site erosion? (if yes, state details in notes section)	Yes / No	Yes / No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes / No	Yes / No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes / No	Yes / No
9	Any system alarms active? (if yes, state details in notes section)	Yes / No	Yes / No
10	Standing water in Effluent Pump Station control room?	Yes / No	Yes / No
11	Standing water in Effluent Pump Station basement area?	Yes / No	Yes / No

Notes:
Survey elevation of Sump A: 239.80
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 7/22/19
Time of visit: 1015
O&M Tech(s): Kelley Brown

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	210.98	0.0	10346168	0.0	0.0	29.05	210.84	+0.01	N	1210-1213	Yes	No
SUMP B		213.82	0.0	80416130	0.0	-	23.25	213.14	+0.02	N	1225-1230	Yes	No
EW-B5	187.65-193.95	0.0	~~45.21~~ #6	17448	0.0	0.0	44.45	191.30	N/A	N/A	1430	Yes	No
EPS WET WELL	-	-	45.21	~~[illegible]~~ 1946150 Gross: 10046792	-	-	-	-	-	-	1218	Yes	No
Lift Station	-	-	-	-	-	-	4.57	-	-	-	1440	Yes	No
MW-OB30	-	-	-	-	-	-	10.16	215.55	-	-	1250	Yes	No
MW-OB33	-	-	-	-	-	-	9.33	214.70	-	-	1245	Yes	No
MW-OB34	-	-	-	-	-	-	14.91	208.77	-	-	1240	Yes	No
MW-OB25	-	-	-	-	-	-	8.84	229.56	-	-	1145	Yes	No
AW-A14	-	-	-	-	-	-	16.92	219.1	-	-	1140	Yes	No
AW-B4	-	-	-	-	-	-	29.98	208.27	-	-	1136	Yes	No
AW-C11	-	-	-	-	-	-	43.36	195.09	-	-	1133	Yes	No
MH-4	-	-	-	-	-	-	18.54	220.32	-	-	1130	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	1.08	Yes	No	Yes	No	@1235
QUARRY	2.04	Yes	No	Yes	No	@1500

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

*Remote access not working, Used Sump house instead 3min b/t Sump A measurements + 5min b/t Sump B measurements
*Cement plant Cloud @1300 waited in trailer until ~~1340~~ 1430 (1:3)
for it to pass
#6 groundhog holes on Hill B in Dome

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 7/29/19
Time of visit: 1040
O&M Tech(s): Hallie Brown

WELL ID	COMPUTER				WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?
	Well Setpoint/ Interval	Reported GW Elevation	GPM	Totalizer	GPM	PSI 1	DTW	GW Elevation				
SUMP A	210.23-211.22	211.46	24.9	10,398,539	25.0	20	28.45	211.44	±0.02	No	1230	Yes / No
SUMP B		213.49	0.0	80,689,881	0.0	-	22.17	214.22	±0.73	yes	1310	Yes / No
EW-B5	187.65-193.95	-	2.7	19948	1.7	80	46.48	189.27	—	—	1035	Yes / No
EPS WET WELL	-	-	0.0	Net: 0.0 Gross: 40,394,430	-	-	-	-	-	-	1145	Yes / No
Lift Station	-	-	-	-	-	-	4.55	-	-	-	1130	Yes / No
MW-OB30	-	-	-	-	-	-	10.21	215.50	-	-	1055	Yes / No
MW-OB33	-	-	-	-	-	-	9.25	214.78	-	-	1050	Yes / No
MW-OB34	-	-	-	-	-	-	14.77	208.81	-	-	1045	Yes / No
MW-OB25	-	-	-	-	-	-	8.96	229.49	-	-	1112	Yes / No
AW-A14	-	-	-	-	-	-	16.92	219.90	-	-	1116	Yes / No
AW-B4	-	-	-	-	-	-	30.03	208.22	-	-	1114	Yes / No
AW-C11	-	-	-	-	-	-	43.26	195.19	-	-	1110	Yes / No
MH-4	-	-	-	-	-	-	18.51	220.35	-	-	1118	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?	Gauge Cleaned?	Comments
RIVER	2.3	Yes / No	Yes / No	@1040
QUARRY	2.8	Yes / No	Yes / No	@ 1245

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

@1200 troubleshooted System w/ Katie to Fix Signal for Sump A
@1300 Notice Sump B signal not reading correctly Reported GW stuck @213.49 hadn't changed since 1100, tried to troubleshoot until 1500 Aztec will look @ System tues 7/30/19

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 2/6/19
Time of visit: 1020
O&M Tech(s): R. Duffy/N. Shadrack

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.37	0.0	10453510	0.0	0.0	29.52	210.37	+0.01	Yes	1142	Yes	No
SUMP B	211.80-214.80	211.51	0.0	(8110376) 1-meter 95.0	-	-	24.85	211.54	-0.03	yes	11:09	Yes	No
EW-B5	187.65-193.95	–		21882	4.4	80.0	42.51	193.24	-0.02	Yes	1216	Yes	No
EPS WET WELL	–	–	81.0	Net: 3474440 Gross: 407833286	–	–	–	–	–	–	1021	Yes	No
Lift Station	–	–	–	–	–	–	4.52	–	–	–	1218	Yes	No
MW-OB30	–	–	–	–	–	–	10.60	215.11	–	–	1156	Yes	No
MW-OB33	–	–	–	–	–	–	7.74	216.29	–	–	1116	Yes	No
MW-OB34	–	–	–	–	–	–	14.80	208.78	–	–	1119	Yes	No
MW-OB25	–	–	–	–	–	–	9.01	229.44	–	–	1204	Yes	No
AW-A14	–	–	–	–	–	–	16.92	219.90	–	–	1206	Yes	No
AW-B4	–	–	–	–	–	–	30.08	208.17	–	–	1205	Yes	No
AW-C11	–	–	–	–	–	–	43.23	195.22	–	–	1203	Yes	No
MH-4	–	–	–	–	–	–	18.51	220.35	–	–	1207	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	0.80	Yes	No	Yes	No	Top of gauge blocked by tree growth.
QUARRY	2.20	Yes	No	Yes	No	Very far away hard to read.

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

- AW-C11 labeled incorrectly as AW-B4
- AW-B4 labeled incorrectly as AW-C11
- Downloaded Sump A Barro Troll data per request of PP Garrett Crane.
- Lift Station taken from well behind panel.
- New Totalizer at EW-B5 installed at 4.5 gal.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: ~~8/12/19~~ 8/12/19
Time of visit: 0940
O&M Tech(s): R. Duffy / N. Suhadolnik

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	211.13	0.0	10,490,564	0.0	0	28.77	211.12	+0.01	Yes	10:45	(Yes)	No
SUMP B	211.56-214.00	213.31	~~94.0~~ 93	(8/23/2007) : 0947	94.0	--	23.03	213.36	-0.05 ft	Yes	10:08	(Yes)	No
EW-B5	187.65-193.95	--	0-8	4403.8	5.0	73	46.76	188.99	N/A	N/A	10:52	(Yes)	No
EPS WET WELL	--	--	0.0	Net: 636340 Gross: 41072168	--	--	--	--	--	--	9:45	(Yes)	No
Lift Station	--	--	--	--	--	--	4.51	--	--	--	10:56	(Yes)	No
MW-OB30	--	--	--	--	--	--	11.21	214.50	--	--	10:31	(Yes)	No
MW-OB33	--	--	--	--	--	--	7.56	216.47	--	--	10:18	(Yes)	No
MW-OB34	--	--	--	--	--	--	14.91	208.67	--	--	10:22	(Yes)	No
MW-OB25	--	--	--	--	--	--	9.09	229.36	--	--	11:06	Yes	(No)
AW-A14	--	--	--	--	--	--	16.93	219.89	--	--	11:08	Yes	(No)
AW-B4	--	--	--	--	--	--	30.08	206.17	--	--	11:07	Yes	(No)
AW-C11	--	--	--	--	--	--	43.41	195.04	--	--	11:04	Yes	(No)
MH-4	--	--	--	--	--	--	18.51	220.35	--	--	11:11	(Yes)	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	1.4	(Yes)	No	Yes	(No)	top 3/4 of gauge blocked by tree
QUARRY	3.01	Yes	(No)	Yes	(No)	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	(No)	Yes	(No)
6	Any visible site erosion? (if yes, state details in notes section) *See below*	(Yes)	No	(Yes)	No
7	Any housekeeping issues? (if yes, state details in notes section) *See below*	(Yes)	No	Yes	(No)
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

- 7) Antea Group sign fell off pump house → Reattached before departure
- Cement pond water level above bottom of fence line but below cluster of well 36.
- Lift station gauged from vault right behind panel
- EW-B5 flow + pressure readings taken w/ pump in hand → missed natural cycle
- 6) Prairie Dog holes on edges close to cement pond, hill near road, river bank hill

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 69 Lower Warren Street, Queensbury, NY
Date of visit: 8-21-19
Time of visit: 1030
O&M Tech(s): Haley B.

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.88	24.9	10541958	24.9	20	29.06	210.83	±0.03	no	1325	Yes	No
SUMP B		211.68	77.7	81569469	78	-	24.62	211.77	±0.09	no	1140	Yes	No
EW-B5	187.65-193.95	-	0.6	10792	4.6	60	44.28	191.47	/	/	1400	Yes	No
EPS WET WELL	-	-	80.2	Net: 155320 Gross: 41486630	-	-	-	-	-	-	1205	Yes	No
Lift Station	-	-	-	-	-	-	4.42	-	-	-	1350	Yes	No
MW-OB30	-	-	-	-	-	-	10.32	215.39	-	-	1255	Yes	No
MW-OB33	-	-	-	-	-	-	7.43	216.60	-	-	1250	Yes	No
MW-OB34	-	-	-	-	-	-	14.90	208.68	-	-	1245	Yes	No
MW-OB25	-	-	-	-	-	-	9.67	229.38	-	-	1325	Yes	No
AW-A14	-	-	-	-	-	-	16.90	219.92	-	-	1345	Yes	No
AW-B4	-	-	-	-	-	-	29.91	208.34	-	-	1330	Yes	No
AW-C11	-	-	-	-	-	-	43.11	195.34	-	-	1320	Yes	No
MH-4	-	-	-	-	-	-	18.50	220.36	-	-	1340	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	1.3	Yes	No	Yes	No	@1240
QUARRY	1.3	Yes	No	Yes	No	@1230

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

#6 groundhog holes

* Thunder/Lightning Storm from 1030-1115 stop work upon arrival

* Sump head @ EW-B5 not signaling properly

* Had to manually start Sump B to get GPM

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 8/27/19
Time of visit: 0930
O&M Tech(s): Reilly Duffy

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	~~210.93~~ 211.11	0.0	10576811	0.0	0.0	28.27	211.12	-0.04	Y 25	1036	Yes	No
SUMP B	211.5-214	212.23	0.0	8181246 4*	0.0	-	24.15	212.24	+0.01	Y +0.0	1005	Yes	No
EW-B5	187.65-193.95	--	0.0	158962*	4.8	75	43.31	192.44	NA	NA	1110	Yes	No
EPS WET WELL	--	--	80.4*	Net: 454650* Gross: 41785364*	--	--	--	--	--	--	0945	Yes	No
Lift Station	--	--	--	--	--	--	4.42	--	--	--	0958	Yes	No
MW-OB30	--	--	--	--	--	--	10.31	215.40	--	--	1023	Yes	No
MW-OB33	--	--	--	--	--	--	7.56	216.47	--	--	1016	Yes	No
MW-OB34	--	--	--	--	--	--	14.90	208.68	--	--	1011	Yes	No
MW-OB25	--	--	--	--	--	--	9.12	229.33	--	--	1030	Yes	No
AW-A14	--	--	--	--	--	--	16.82	220.00	--	--	1038	Yes	No
AW-B4	--	--	--	--	--	--	30.05	208.20	--	--	1045	Yes	No
AW-C11	--	--	--	--	--	--	43.03	195.42	--	--	1042	Yes	No
MH-4	--	--	--	--	--	--	18.37	220.49	--	--	1102	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	1.82	Yes	No	Yes	No	Obstructed by river plant life.
QUARRY	3.10	Yes	No	Yes		

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

8) Some fresh prairie dog holes.

* Checked at 0945

6) Some erosion from prairie dog holes.

EW-B5
- Wires in Terminal 5 and 6 were backwards and switched.
- Sensor set up checked and no notable change in flow shown on computer.

8) Cement pond water level above metal fence touching parts of wells. (MW-36

~~40.4~~ ~~89.5~~

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

anteagroup

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 9/3/19
Time of visit: 1030
O&M Tech(s): Harley Brown

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.81	25.2	10640261	25.1	19	29.11	210.78	0.03	NO	1125	Yes	No
SUMP B		213.08	89.5	82142689	90.4	-	23.3	213.09	0.04	No	1045	Yes	No
EW-B5	187.65-193.95	-	0 0	16010.2	0.0	0.0	32.62	203.13	—	—	1150	Yes	No
EPS WET WELL	-	-	80.8	Net: 3649 40 Gross: 42204980	-	-	-	-	-	-	1050	Yes	No
Lift Station	-	-	-	-	-	-	4.41	-	-	-	1255	Yes	No
MW-OB30	-	-	-	-	-	-	10.38	215.33	-	-	1245	Yes	No
MW-OB33	-	-	-	-	-	-	7.57	216.46	-	-	1240	Yes	No
MW-OB34	-	-	-	-	-	-	14.85	208.73	-	-	1235	Yes	No
MW-OB25	-	-	-	-	-	-	9.16	229.29	-	-	1197	Yes	No
AW-A14	-	-	-	-	-	-	16.86	219.96	-	-	1142	Yes	No
AW-B4	-	-	-	-	-	-	29.91	208.34	-	-	1139	Yes	No
AW-C11	-	-	-	-	-	-	42.99	195.46	-	-	1135	Yes	No
MH-4	-	-	-	-	-	-	18.46	220.40	-	-	1145	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	0.1	Yes	No	Yes	No	@ 1230
QUARRY	1.3	Yes	No	Yes	No	@ 1325

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

@ 1030 upon arrival Shut down error occurs on program hit ok @ sump house
EW-B5 signal still not working alert Katie A.
Close EW-B5, lock Jams alert KA & Garnett C.
#6 Ground hog erosion
Cement pond lower than last week
@ 1335 Turn EW-B5 to hand after seeing if turn off & back on, in sump house fixed signal problem no levels changed @ computer w/ Hand Turn, Turn to auto @ 1340
No noise @ Sump when in hand mode most likely signal problems

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 4/9/19
Time of visit: 800
O&M Tech(s): Gareth Crowl

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	211.10	0	10704001	0	–	28.81	211.08	0.02	Y	1037	Yes	No
SUMP B	–	212.86	0	824112037	0	–	23.51	212.68	0.62	Y	1022	Yes	No
EW-B5	187.65-193.95	–	6	18425	0	–	46.84	188.91	NA	NA	1235	Yes	No
EPS WET WELL	–	–	0.0	Net: 751866 Gross: ~~42,876~~ 425,294	–	–	–	–	–	–		Yes	No
Lift Station	–	–	–	–	–	–	NG	–	–	–	NG	Yes	No
MW-OB30	–	–	–	–	–	–	10.43	219.28	–	–	1148	Yes	No
MW-OB33	–	–	–	–	–	–	6.51	215.52	–	–	1150	Yes	No
MW-OB34	–	–	–	–	–	–	14.90	208.8	–	–	1140	Yes	No
MW-OB25	–	–	–	–	–	–	9.23	229.22	–	–	1035	Yes	No
AW-A14	–	–	–	–	–	–	16.76	220.12	–	–	1045	Yes	No
AW-B4	–	–	–	–	–	–	29.91	208.34	–	–	1040	Yes	No
AW-C11	–	–	–	–	–	–	43.65	195.46	–	–	1038	Yes	No
MH-4	–	–	–	–	–	–	18.24	220.62	–	–	1105	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	2.36	Yes	No	Yes	No	1228
QUARRY	3.0	Yes	No	Yes	No	1645

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 9/16/19
Time of visit: 1100
O&M Tech(s): Haley Brown

anteagroup

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.66	25.5	10,767,119	25.6	20	29.26	210.63	0.03	NO	1136	Yes	No
SUMP B		212.59	86	82746787.8			23.78	212.64	0.02	NO	1200	Yes	No
EW-B5	187.65-193.95	--	0.8	2088707	4.8	60	50.65	185.10	—	—	1240	Yes	No
EPS WET WELL	--	--	81.3	Net: 1138780 Gross: 42978839	--	--	--	--	--	--	1215	Yes	No
Lift Station	--	--	--	--	--	--	4.39	--	--	--	1205	Yes	No
MW-OB30	--	--	--	--	--	--	10.53	215.18	--	--	1125	Yes	No
MW-OB33	--	--	--	--	--	--	7.50	216.53	--	--	1120	Yes	No
MW-OB34	--	--	--	--	--	--	14.09	209.49	--	--	1115	Yes	No
MW-OB25	--	--	--	--	--	--	9.14	229.31	--	--	1142	Yes	No
AW-A14	--	--	--	--	--	--	16.71	220.11	--	--	1146	Yes	No
AW-B4	--	--	--	--	--	--	30.12	208.13	--	--	1144	Yes	No
AW-C11	--	--	--	--	--	--	44.07	194.38	--	--	1140	Yes	No
MH-4	--	--	--	--	--	--	18.23	220.63	--	--	1150	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	2.3	Yes	No	Yes	No	@ 1110
QUARRY	2.9	Yes	No	Yes	No	@ 1210

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

* Threw Sump B into hand @ 1233 to get totalizer/GPM turned to auto @ 1234

* threw EW-B5 into hand @ 1236 to get totalizer/GPM turned to auto @ 1243

#6 groundhog holes

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 9/24/19
Time of visit: 1030
O&M Tech(s): Reilly DuFey / Garrett Comer.

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	211.13	0.0	10857791	0.0	5	28.34	211.65	-0.08	Yes	1108	Yes	No
SUMP B	211.5-219	211.98	0.0	33246761	0.0	-	29.42	211.97	-0.01	Yes	1312	Yes	No
EW-B5	187.65-193.95	-	0.0	22980.1	0.0	0	48.38	187.37	n/a	Yes	1244	Yes	No
EPS WET WELL	-	-	115.2	Net: 1773460 Gross: 43613548	-	-	-	-	-	-	1400	Yes	No
Lift Station	-	-	-	-	-	-	N/A	-	-	-	N/A	Yes	No
MW-OB30	-	-	-	-	-	-	10.93	211.78	-	-	1358	Yes	No
MW-OB33	-	-	-	-	-	-	7.31	216.72	-	-	1205	Yes	No
MW-OB34	-	-	-	-	-	-	15.16	208.93	-	-	1211	Yes	No
MW-OB25	-	-	-	-	-	-	9.14	229.31	-	-	1333	Yes	No
AW-A14	-	-	-	-	-	-	16.48	220.34	-	-	1334	Yes	No
AW-B4	-	-	-	-	-	-	30.06	208.19	-	-	1334	Yes	No
AW-C11	-	-	-	-	-	-	42.92	195.53	-	-	1331	Yes	No
MH-4	-	-	-	-	-	-	18.05	220.81	-	-	1332	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	~~0.4~~ 4.0	Yes	No	Yes	No	1312
QUARRY	1.4	Yes	No	Yes	No	1445

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (If no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (If no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (If no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (If yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (If yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (If yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

• Cement pond level above fence line (rain occurred during day and night prior.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 10/1/19
Time of visit: 1000
O&M Tech(s): Reilly Dubay

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	222.48	0.0	108967944.	0.0	0.0	17.45	222.44.	-0.04.	Y	1214.	Yes	No
SUMP B	211.50-214	NA	0.0	83477578	0.0	-	NA	NA	NA	NA	NA.	Yes	No
EW-B5	187.65-193.95	-	0.0	7993.7	0.0	0.0.	32.94.	~~32.99.~~	NA	Y	1228	Yes	No
EPS WET WELL	-	-	0.0 / 115.7	Net: 2062930 Gross: 43902954	-	-	-	202.81 -	-	-	1118 / 1540	Yes	No
Lift Station	-	-	-	-	-	-	4.38	-	-	-	1126	Yes	No
MW-OB30	-	-	-	-	-	-	9.58	216.13	-	-	1203	Yes	No
MW-OB33	-	-	-	-	-	-	6.26	217.77	-	-	1146	Yes	No
MW-OB34	-	-	-	-	-	-	15.07	208.51	-	-	1141	Yes	No
MW-OB25	-	-	-	-	-	-	9.15	229.30	-	-	1158	Yes	No
AW-A14	-	-	-	-	-	-	16.87	219.95	-	-	1203	Yes	No
AW-B4	-	-	-	-	-	-	29.82	208.43	-	-	1159	Yes	No
AW-C11	-	-	-	-	-	-	43.20	195.25	-	-	1156	Yes	No
MH-4	-	-	-	-	-	-	15.28	223.88	-	-	1202	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.7	Yes	No	Yes	No	Obstructed by plant life in water.
QUARRY	2.6	Yes	No	Yes	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

9) on arrival:
- Sump B off for >12hrs.
- Sump B has no charge.

10) On Departure:
- Sump A still not pumping.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 69 Lower Warren Street, Queensbury, NY

Date of visit: 10/18/19
Time of visit: 900
O&M Tech(s): Garrett Crow

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22		0	–	~~0~~	–	15.99	223.90			935	Yes	No
SUMP B			0	63489815	~~0~~	–	15.94	220.45			942	Yes	No
EW-B5	187.65-193.95	–	0	–	0	–	32.55	203.20			957	Yes	No
EPS WET WELL	–	–		Net: 0.00 Gross: 43916368	–	–	–	–	–	–	1230	Yes	No
Lift Station	–	–	–	–	–	–	NL	–	–	–	NL	Yes	No
MW-OB30	–	–	–	–	–	–	8.75	216.96	–	–	1205	Yes	No
MW-OB33	–	–	–	–	–	–	6.65	217.38	–	–	1112	Yes	No
MW-OB34	–	–	–	–	–	–	13.90	209.68	–	–	1115	Yes	No
MW-OB25	–	–	–	–	–	–	9.15	229.30	–	–	1004	Yes	No
AW-A14	–	–	–	–	–	–	16.35	220.47	–	–	1030	Yes	No
AW-B4	–	–	–	–	–	–	29.54	208.71	–	–	1026	Yes	No
AW-C11	–	–	–	–	–	–	42.88	195.57	–	–	1025	Yes	No
MH-4	–	–	–	–	–	–	17.93	220.93	–	–	1628	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	1.0	Yes	No	Yes	No	935
QUARRY	2.8	Yes	No	Yes	No	1315

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

* System down due to Electrical issues → system unable to start running

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 10/14/19
Time of visit: 0950
O&M Tech(s): Haley Brown

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	222.58	1.0	—	—	0	15.72	224.04	1.54	yes	1034	Yes	No
SUMP B		218.65	0.0	83489815	0.0	-	15.52	220.87	2.22	yes	1024	Yes	No
EW-B5	187.65-193.95	–	0.0	—	—	0	32.78	202.97	—	—	1100	Yes	No
EPS WET WELL	–	–	0.0	Net: 0.0 Gross: 43916368	–	–	–	–	–	–	1038	Yes	No
Lift Station	–	–	–	–	–	–	4.35	–	–	–	1010	Yes	No
MW-OB30	–	–	–	–	–	–	8.69	217.02	–	–	1120	Yes	No
MW-OB33	–	–	–	–	–	–	6.23	217.80	–	–	1115	Yes	No
MW-OB34	–	–	–	–	–	–	14.70	208.88	–	–	1105	Yes	No
MW-OB25	–	–	–	–	–	–	9.10	229.35	–	–	1052	Yes	No
AW-A14	–	–	–	–	–	–	16.20	220.62	–	–	1055	Yes	No
AW-B4	–	–	–	–	–	–	29.37	208.88	–	–	1053	Yes	No
AW-C11	–	–	–	–	–	–	43.18	195.27	–	–	1050	Yes	No
MH-4	–	–	–	–	–	–	17.70	221.10	–	–	1057	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	0.9	Yes	No	Yes	No	@ 1100
QUARRY	2.8	Yes	No	Yes	No	@ 1150

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

* 10 minutes b/t gauge + computer reading for DTW + GW elevation
Power not working @ sumps Delay of reading from computer delay
* Cement pond fence under water Update Cody
#21 Sumps off
#9 6 alarms for Sump Power + Water In

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 10/23/19
Time of visit: 800
O&M Tech(s): Garrett Crowe

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	—	—	—	—	—	16.84	224.00	—	—	1530	Yes	No
SUMP B	—	—	—	8348995	—	—	13.82	220.57	—	—	1545	Yes	No
EW-B5	187.65-193.95	—	—	—	—	—	31.18	204.57	—	—	1517	Yes	No
EPS WET WELL	—	—	0.0	Net: 0.00 Gross: 43916388	—	—	—	—	—	—	1705 ~~ND~~	Yes	No
Lift Station	—	—	—	—	—	—	ND	—	—	—	ND	Yes	No
MW-OB30	—	—	—	—	—	—	8.73	216.98	—	—	1645	Yes	No
MW-OB33	—	—	—	—	—	—	6.96	217.23	—	—	1630	Yes	No
MW-OB34	—	—	—	—	—	—	12.78	210.86	—	—	1634	Yes	No
MW-OB25	—	—	—	—	—	—	9.10	229.35	—	—	1602	Yes	No
AW-A14	—	—	—	—	—	—	16.15	220.67	—	—	1603	Yes	No
AW-B4	—	—	—	—	—	—	24.30	208.86	—	—	1559	Yes	No
AW-C11	—	—	—	—	—	—	41.95	196.50	—	—	1601	Yes	No
MH-4	—	—	—	—	—	—	17.98	220.98	—	—	1607	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	1.0	Yes	No	Yes	No	1549
QUARRY	2.8	Yes	No	Yes	No	1735

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 69 Lower Warren Street, Queensbury, NY

Date of visit: 10-28-19
Time of visit: 1040
O&M Tech(s): Hailey B.

anteagroup

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	216.25	264	11000256	26.4		23.67	216.22	0.03	~~yes~~	1145	(Yes)	No
SUMP B	~	214.13	94.2	83683462	94.2	-	21.97	214.42	0.01	~~yes~~	1045	(Yes)	No
EW-B5	187.65-193.95	-	0.0	7998.7	0.0	0	~~30.92~~	~~204.83~~	—	—	1205	(Yes)	No
EPS WET WELL	-	-	129.7	Net: 32780 Gross: 44236497	-	-	-	204.83 (M)	-	-	1048	(Yes)	No
Lift Station	-	-	-	-	-	-	4.57	-	-	-	1100	(Yes)	No
MW-OB30	-	-	-	-	-	-	7.94	217.77	-	-	1135	(Yes)	No
MW-OB33	-	-	-	-	-	-	7.05	216.98	-	-	1130	(Yes)	No
MW-OB34	-	-	-	-	-	-	12.26	211.32	-	-	1125	(Yes)	No
MW-OB25	-	-	-	-	-	-	6.92	231.53	-	-	1152	(Yes)	No
AW-A14	-	-	-	-	-	-	16.53	220.29	-	-	1156	(Yes)	No
AW-B4	-	-	-	-	-	-	26.85	211.40	-	-	1154	(Yes)	No
AW-C11	-	-	-	-	-	-	41.82	196.63	-	-	1150	(Yes)	No
MH-4	-	-	-	-	-	-	18.23	220.63	-	-	1158	(Yes)	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	4.2	(Yes)	No	Yes	(No)	@ 1120
QUARRY	1.3	Yes	(No)	Yes	(No)	@ 1220

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (If no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (If no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (If no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (If no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (If yes, state which vaults in notes section)	Yes	(No)	Yes	(No)
6	Any visible site erosion? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (If yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	(Yes)	No	(Yes)	No
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

#10 Some water in sump house
*EWB5 not running
* Cement Pond back to acceptable lvl

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 11/5/19.
Time of visit: 1008.
O&M Tech(s): Reilly Duffy

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.65	25.5	111 38 677	25.4.	5	29.33	210.56	+0.09	N	1132	Yes	No
SUMP B	211.5-214	212.11	90.1	840723559 (10s)	NA.	–	24.31	212.03	+0.08	N	1104.	Yes	No
EW-B5	187.65-193.95	–	0.0	80092	0.0.	0.0	61.92	NA	NA	N	1155	Yes	No
EPS WET WELL	–	–	130.4.	Net: 58740 Gross: 44858880	–	–	–	–	–	–	1053	Yes	No
Lift Station	–	–	–	–	–	–	4.51	–	–	–	1055	Yes	No
MW-OB30	–	–	–	–	–	–	7.64.	218.07	–	–	1114	Yes	No
MW-OB33	–	–	–	–	–	–	6.43	217.60	–	–	1115	Yes	No
MW-OB34	–	–	–	–	–	–	10.35	213.23	–	–	1113	Yes	No
MW-OB25	–	–	–	–	–	–	7.32	231.13	–	–	1141	Yes	No
AW-A14	–	–	–	–	–	–	16.63	220.19	–	–	1147	Yes	No
AW-B4(D) (12D)	–	–	–	–	–	–	40.00	198.25	–	–	1143	Yes	No
AW-B4	–	–	–	–	–	–	25.72	213.13	–	–	1139	Yes	No
MH-4	–	–	–	–	–	–	17.17	221.64	–	–	1145	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.56.	Yes	No	Yes	No	
QUARRY	0.81	Yes	No	Yes	No	

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

1) Mowers are here to cut grass in field.
2) Gopher holes close to cement pond
3) Trailer needs to cleaned and organized.

213-6

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 11/11/19
Time of visit: 1100
O&M Tech(s): Harley B.

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?
SUMP A	210.23-211.22	210.45	25.5	11308844	25.5	20	27.51	210.38	0.07	yes	1150	Yes / No
SUMP B		~~213.38~~	83.8	64318526	83.8	–	23.03	213.36	0.02	yes	1210	Yes / No
EW-B5	187.65-193.95	–	–	62.3	–	–	29.91	~~173.45~~ 205.84 (1/19)	–	–	1252	Yes / No
EPS WET WELL	–	–	~~287~~	Net: 421690 Gross: 45249795	–	–	–	–	–	–	1137	Yes / No
Lift Station	–	–	–	–	–	–	4.50	–	–	–	1257	Yes / No
MW-OB30	–	–	–	–	–	–	8.62	217.08	–	–	1225	Yes / No
MW-OB33	–	–	–	–	–	–	7.12	216.91	–	–	1220	Yes / No
MW-OB34	–	–	–	–	–	–	11.47	212.11	–	–	1215	Yes / No
MW-OB25	–	–	–	–	–	–	7.73	230.72	–	–	1242	Yes / No
AW-A14	–	–	–	–	–	16.70	~~17.73~~	220.12	–	12/16	~~1248~~	Yes / No
AW-B4	–	–	–	–	26.32	~~70-71~~	~~26.32~~	211.93	–	–	1244	Yes / No
AW-C11	–	–	–	–	–	–	40.95	197.50	–	–	1240	Yes / No
MH-4	–	–	–	–	–	–	18.37	220.49	–	–	1248	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	4.41	Yes	No	Yes	No	N 1213
QUARRY	1.02	Yes	No	Yes	No	N 1130

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

* Started Sump B manually @ 1259 to get GPM reading

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 11/19/19
Time of visit: 1000
O&M Tech(s): Rusty Duffy

anteagroup

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	211.07	25.3	11435853.	0.0	0.0	28.88	211.01	+0.06	Y	1334	Yes	No
SUMP B	211.5-214	212.83	86.5	84614508	0.0	-	23.50	212.84	+0.06	Y	1025/1345	Yes	No
EW-B5	187.65-193.95	--	0.0	9832.6.	0.0	0.0	47.42		NA	NA	1147.	Yes	No
EPS WET WELL	--	--	130.1	Net: 847660 Gross: 45647784.	--	--	--	--	--	--	1025	Yes	No
Lift Station	--	--	--	--	--	--	4.61	--	--	--	1400	Yes	No
MW-OB30	--	--	--	--	--	--	8.44		--	--	1327	Yes	No
MW-OB33	--	--	--	--	--	--	7.41		--	--	1325	Yes	No
MW-OB34	--	--	--	--	--	--	12.16.		--	--	1319.	Yes	No
MW-OB25	--	--	--	--	--	--	7.91		--	--	1308	Yes	No
AW-A14	--	--	--	--	--	--	16.97		--	--	1307	Yes	No
AW-B4	--	--	--	--	--	--	27.02		--	--	1306	Yes	No
AW-C11	--	--	--	--	--	--	41.42		--	--	1302	Yes	No
MH-4	--	--	--	--	--	--	13.66		--	--	1309	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.91	Yes	No	Yes	No	(A) 1320
QUARRY	1.00	Yes	No	Yes	No	(A) 1430

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (If no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

6) Gopher holes still look fresh

10) some water in control room.

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 11/26/19
Time of visit: 1000
O&M Tech(s): Garrett Cowe

WELL ID	COMPUTER			Totalizer	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM		GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	210.33	25.5	11546235	25.5	--	29.58	210.37	0.02	Yes	1356	(Yes)	No
SUMP B		212.45	0	84913653	0	--	23.97	212.42	0.03	Yes	1403	(Yes)	No
EW-B5	187.65-193.95	--		12174.9	0	--	43.55	192.26	na	na	1328	(Yes)	No
EPS WET WELL	--	--	0	Net: 1358 6558 Gross: 46158482	--	--	--	--	--	--	1630	(Yes)	No
Lift Station	--	--	--	--	--	--	N/A	--	--	--	NA	(Yes)	No
MW-OB30	--	--	--	--	--	--	9.00	216.71	--	--	1615	(Yes)	No
MW-OB33	--	--	--	--	--	--	7.20	216.83	--	--	1410	(Yes)	No
MW-OB34	--	--	--	--	--	--	12.01	211.48	--	--	1415	(Yes)	No
MW-OB25	--	--	--	--	--	--	7.05	231.46	--	--	1421	Yes	(No)
AW-A14	--	--	--	--	--	--	16.59	220.23	--	--	1429	Yes	(No)
AW-B4	--	--	--	--	--	--	27.17	211.08	--	--	1428	Yes	(No)
AW-C11	--	--	--	--	--	--	41.31	147.11	--	--	1422	Yes	(No)
MH-4	--	--	--	--	--	--	18.60	220.26	--	--	1427	(Yes)	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	8.7	Yes	No	Yes	No	1404
QUARRY	1.1	Yes	No	Yes	No	1615

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	(Yes)	No	(Yes)	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	Yes	(No)	Yes	(No)
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
Survey elevation of EW-B5: 235.75
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Initial Issue Date: 11/3/2016
Revision Date 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 12/4/19
Time of visit: 1000
O&M Tech(s): Healy B

WELL ID	COMPUTER			85278563 Totalizer ↑ Sump B	WELL/SUMP HEAD				System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
	Well Setpoint/ Interval	Reported GW Elevation	GPM	Totalizer	GPM	PSI 1	DTW	GW Elevation					
SUMP A	210.23-211.22	211.02 213.40	26.5	116660002	26.5	20	28.83	211.06	0.04	yes	1501	Yes	No
SUMP B		213.40	91.5	~~116660284~~	91.2	-	22.98	213.41	0.01	yes	1451	Yes	No
EW-B5	187.65-193.95	-	0.0	14984.5	0.0	0.0	43.00	192.75	—	—	1031	Yes	No
EPS WET WELL	-	-	130.3	Net: 1820060 Gross: 46620182	-	-	-	-	-	-	1540	Yes	No
Lift Station	-	-	-	-	-	-	4.39	-	-	-	1525	Yes	No
MW-OB30	-	-	-	-	-	-	8.74	216.97	-	-	1415	Yes	No
MW-OB33	-	-	-	-	-	-	7.09	216.94	-	-	1410	Yes	No
MW-OB34	-	-	-	-	-	-	11.92	211.66	-	-	1404	Yes	No
MW-OB25	-	-	-	-	-	-	7.46	230.99	-	-	1505	Yes	No
AW-A14	-	-	-	-	-	-	16.66	220.16	-	-	1507	Yes	No
AW-B4	-	-	-	-	-	-	26.90	211.35	-	-	1508	Yes	No
AW-C11	-	-	-	-	-	-	40.92	197.53	-	-	1258	Yes	No
MH-4	-	-	-	-	-	-	18.34	220.52	-	-	1510	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?	Gauge Cleaned?	Comments
RIVER	3.3	Yes (No)	Yes (No)	@ 1425
QUARRY	0.7	Yes (No)	Yes (No)	@ 1555

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	(Yes)	No	(Yes)	No
3	All access roads clear? (if no, state details in notes section)	(Yes)	No	(Yes)	No
4	Site utilities operation? (if no, state details in notes section)	(Yes)	No	(Yes)	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	(No)	Yes	(No)
6	Any visible site erosion? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
9	Any system alarms active? (if yes, state details in notes section)	Yes	(No)	Yes	(No)
10	Standing water in Effluent Pump Station control room?	(Yes)	No	(Yes)	No
11	Standing water in Effluent Pump Station basement area?	Yes	(No)	Yes	(No)

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

@1506 Put Sump A into hand for GPM

~~@1522 Put EW-B5~~ (HP)

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY
Date of visit: 12/9/19
Time of visit: 0800
O&M Tech(s): Kaitlyn F.

antea group

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?
SUMP A	210.23-211.23	210.23	25	0117337318	25.0		29.74	210.15	0.08	Y	0900	Yes / No
SUMP B		212.91	75.4	854041577	—	–	23.49	212.90	0.01	Y	1004	Yes / No
EW-B5	187.65-193.95	–	~~25~~ 1.616,410		4.6		48.30	—	—	—	0957	Yes / No
EPS WET WELL	–	–	0.0	Net: 37960 Gross: 46885447	–	–	–	–	–	–	1016	Yes / No
Lift Station	–	–	–	–	–	–	4.5	–	–	–	1040	Yes / No
MW-OB30	–	–	–	–	–	–	9.08		–	–	1000	Yes / No
MW-OB33	–	–	–	–	–	–	7.10		–	–	1020	Yes / No
MW-OB34	–	–	–	–	–	–	12.18		–	–	1007	Yes / No
MW-OB25	–	–	–	–	–	–	7.77		–	–	0935	Yes / No
AW-A14	–	–	–	–	–	–	16.75		–	–	0930	Yes / No
AW-B4	–	–	–	–	–	–	27.45		–	–	0942	Yes / No
AW-C11	–	–	–	–	–	–	41.60		–	–	0915	Yes / No
MH-4	–	–	–	–	–	–	18.40		–	–	1010	Yes / No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	2.9	Yes	No	Yes	No	@1015
QUARRY	0.8	Yes	No	Yes	No	@1030

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.69
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

#7 Faucet in trailer bathroom has little to no water pressure/flow

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 12-16-19
Time of visit: 0930
O&M Tech(s): Holly B

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.60	25.5	118519160	25.5	20	29.28	210.61	0.01	yes	1213	Yes	No
SUMP B		211.95	86.7	85712625	86.7	–	24.46	211.93	0.02	yes	1310	Yes	No
EW-B5	187.65-193.95	–	0.0	18487	4.5	60	43.38	192.37	—	—	1232	Yes	No
EPS WET WELL	–	–	0.0	Net: 510280 Gross: 47357769	–	–	–	–	–	–	1331	Yes	No
Lift Station	–	–	–	–	–	–	4.30	–	–	–	1315	Yes	No
MW-OB30	–	–	–	–	–	–	8.49	217.22	–	–	1305	Yes	No
MW-OB33	–	–	–	–	–	–	6.94	217.08	–	–	1300	Yes	No
MW-OB34	–	–	–	–	–	–	11.59	211.99	–	–	1252	Yes	No
MW-OB25	–	–	–	–	–	–	7.06	231.39	–	–	1200	Yes	No
AW-A14	–	–	–	–	–	–	16.55	220.27	–	–	1209	Yes	No
AW-B4	–	–	–	–	–	–	26.74	211.51	–	–	1202	Yes	No
AW-C11	–	–	–	–	–	–	40.86	197.59	–	–	1152	Yes	No
MH-4	–	–	–	–	–	–	18.27	220.59	–	–	1206	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	4.1	Yes	No	Yes	No	@ 1315
QUARRY	0.7	Yes	No	Yes	No	@ 1324

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

Turned on Sump B to get GPM @ 1347
- Alerted EW-B5 signal issues to Katelyn + Cody
⇒ Signal from sump not reaching
remote access

Initial Issue Date: 11/3/2016
Revision Date: 12/4/2018
Revised By: GC

FORMER HERCULES/CIBA-GEIGY GWES DATA SHEET

Client: Ashland, Inc.
Site Location: 89 Lower Warren Street, Queensbury, NY

Date of visit: 12/23/18
Time of visit: 1030
O&M Tech(s): Haley B.

anteagroup

WELL ID	COMPUTER: Well Setpoint/ Interval	COMPUTER: Reported GW Elevation	COMPUTER: GPM	Totalizer	WELL/SUMP HEAD: GPM	WELL/SUMP HEAD: PSI 1	WELL/SUMP HEAD: DTW	WELL/SUMP HEAD: GW Elevation	System vs. Actual GW Elevation	±0.10 ft? (yes/no)	Time	Enclosure Locked/Well Sealed?	
SUMP A	210.23-211.22	210.68	25.2	119648826	25.2	20	29.17	210.72	0.04	Y	1116	Yes	No
SUMP B		212.20	93.3	85976353	93.3	-	24.25	212.14	0.06	Y	1110	Yes	No
EW-B5	187.65-193.95	-	0.0	20551	0.0	0.0	46.19	189.56	—	—	1140	Yes	No
EPS WET WELL	-	-	0.0	Net 182030 Gross 977688717	-	-	-	-	-	-	1200	Yes	No
Lift Station	-	-	-	-	-	-	4.30	-	-	-	1042	Yes	No
MW-OB30	-	-	-	-	-	-	8.90	216.81	-	-	1105	Yes	No
MW-OB33	-	-	-	-	-	-	7.13	216.90	-	-	1100	Yes	No
MW-OB34	-	-	-	-	-	-	12.34	211.24	-	-	1057	Yes	No
MW-OB25	-	-	-	-	-	-	7.60	230.85	-	-	1127	Yes	No
AW-A14	-	-	-	-	-	-	16.62	220.20	-	-	1131	Yes	No
AW-B4	-	-	-	-	-	-	21.06	211.19	-	-	1129	Yes	No
AW-C11	-	-	-	-	-	-	41.13	197.32	-	-	1125	Yes	No
MH-4	-	-	-	-	-	-	18.36	220.50	-	-	1133	Yes	No

STAFF GAUGES

ID	Level	Gauge Obstructed?		Gauge Cleaned?		Comments
RIVER	3.6	Yes	No	Yes	No	@ 1055
QUARRY	0.6	Yes	No	Yes	No	@ 1155

SITE INSPECTION

		Arrival		Departure	
1	All Gates and buildings secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
2	Is dumpster secured and locked? (if no and there is evidence of trespassing, notify PM)	Yes	No	Yes	No
3	All access roads clear? (if no, state details in notes section)	Yes	No	Yes	No
4	Site utilities operation? (if no, state details in notes section)	Yes	No	Yes	No
5	Standing water in bedrock extraction well vaults? (if yes, state which vaults in notes section)	Yes	No	Yes	No
6	Any visible site erosion? (if yes, state details in notes section)	Yes	No	Yes	No
7	Any housekeeping issues? (if yes, state details in notes section)	Yes	No	Yes	No
8	Any stormwater basin area disturbances? (if yes, state details in notes section)	Yes	No	Yes	No
9	Any system alarms active? (if yes, state details in notes section)	Yes	No	Yes	No
10	Standing water in Effluent Pump Station control room?	Yes	No	Yes	No
11	Standing water in Effluent Pump Station basement area?	Yes	No	Yes	No

Notes:
Survey elevation of Sump A: 239.89
Survey elevation of Sump B: 236.39
If System v. Actual GW Elevation <0.10 ft, call PM prior to leaving site.

*EW-B5 signal issues still occuring, heard sump kick on, ~~Brit~~ HB did not get numbers on time

* Reset Sump B in hand to get GPM @ 1216

Attachment 6 Schematic – Underground Power Line Repair Project

ANTEA GROUP/ASHLAND GLENS FALLS SITE: UG POWER DISTRIBUTION LINES

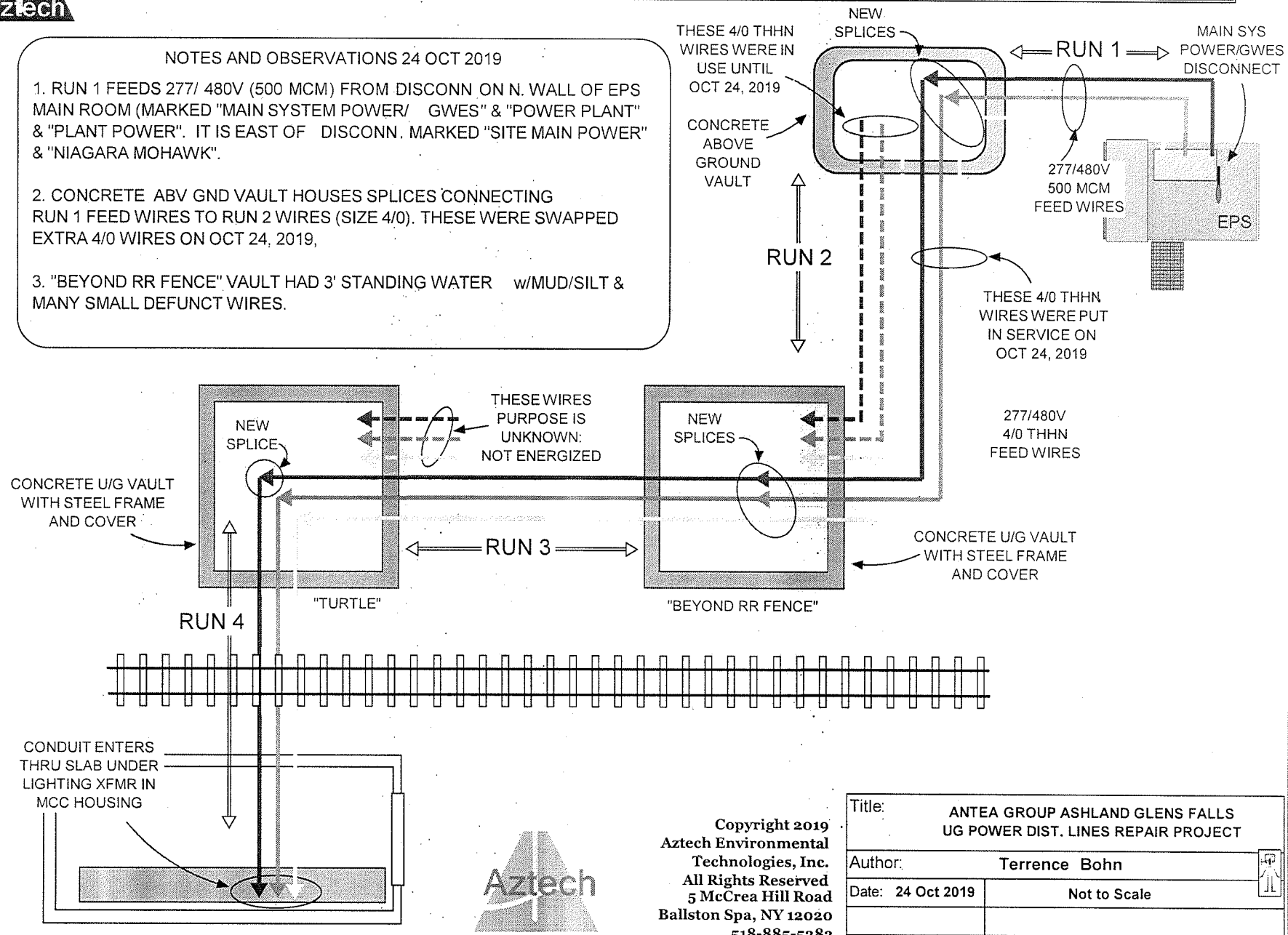
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NOTES AND OBSERVATIONS 24 OCT 2019

1. RUN 1 FEEDS 277/ 480V (500 MCM) FROM DISCONN ON N. WALL OF EPS MAIN ROOM (MARKED "MAIN SYSTEM POWER/ GWES" & "POWER PLANT" & "PLANT POWER". IT IS EAST OF DISCONN. MARKED "SITE MAIN POWER" & "NIAGARA MOHAWK".

2. CONCRETE ABV GND VAULT HOUSES SPLICES CONNECTING RUN 1 FEED WIRES TO RUN 2 WIRES (SIZE 4/0). THESE WERE SWAPPED EXTRA 4/0 WIRES ON OCT 24, 2019,

3. "BEYOND RR FENCE" VAULT HAD 3' STANDING WATER w/MUD/SILT & MANY SMALL DEFUNCT WIRES.



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518-885-5383
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Title:	ANTEA GROUP ASHLAND GLENS FALLS UG POWER DIST. LINES REPAIR PROJECT	
Author:	Terrence Bohn	
Date: 24 Oct 2019	Not to Scale	
Revision: III	Aztech Environmental Technologies,Inc.	