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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone:304-926-0495/Fax: 304-926-0463

Harold D. Ward, Cabinet Secretary  
dep.wv.gov

March 13, 2024

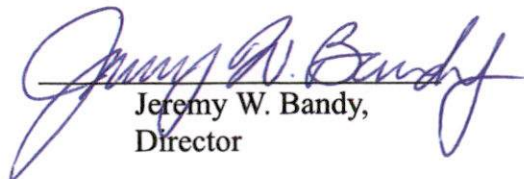
**CERTIFICATION**

**RE: Solid Waste WV/NPDES Permit Number WV0050776  
Monongahela Power Company, LLC, Rivesville Landfill  
Marion County**

**APPEAL NO.: 24-02-EQB**

I, Jeremy W. Bandy, Division of Water and Waste Management, Department of Environmental Protection, in compliance with Chapter 22B, Article 1, Section 7(e), Code of West Virginia, as amended, do hereby certify that the enclosed is a true and accurate reproduction of the record of the proceedings out of which the appeal arises including documents and correspondence in the Director's file relating to the matter in question. Due to reproduction problems, maps have been omitted. These items are available for inspection at the Division of Water and Waste Management in Charleston.

DIVISION OF WATER AND WASTE MANAGEMENT

  
Jeremy W. Bandy,  
Director

JWB:jl  
Enclosures

Promoting a healthy environment.

February 23, 2024

**Via E-Mail and Hand-Delivery**

Ms. Kenna M. DeRaimo  
Clerk of the Board  
W.Va. Environmental Quality Board  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304

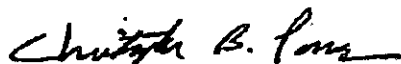
Re: Monongahela Power Company v. Jeremy W. Bandy, Director,  
Division of Water and Waste Management,  
West Virginia Department of Environmental Protection  
Appeal No: \_\_\_\_\_  
Notice of Appeal and Motion for Stay Pending Appeal

Dear Ms. DeRaimo:

I have enclosed the original and three (3) copies of the Notice of Appeal and the Motion for Stay Pending Appeal in the above-referenced matter. As indicated by the attached certificates, copies of both of these documents have been served upon the Director and counsel for the DEP.

Thank you for your time and attention to this matter.

Sincerely,



Christopher B. Power  
Counsel, Monongahela Power Company

encl  
CBP/mot

cc: Jeremy W. Bandy, Director, DWWM (w/encl)  
Jonathan Frame, Esq. (w/encl)

15647974v1

BEFORE THE WEST VIRGINIA ENVIRONMENTAL QUALITY BOARD

MONONGAHELA POWER COMPANY, LLC

Appellant,

Appeal No.: \_\_\_\_\_

v.

JEREMY W. BANDY, DIRECTOR,  
DIVISION OF WATER AND WASTE MANAGEMENT,  
WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION,

Appellee.

**MOTION FOR STAY PENDING APPEAL**

Pursuant to *W. Va. Code* § 22B-1-7(d) and Rule 5.3 of the Board's Procedural Rules, Appellant Monongahela Power Company, LLC ("MPC"), by counsel, hereby MOVES for the entry of a Stay of a certain provision of Solid Waste/NPDES Permit No. WV0050766 issued by the Director of the Division of Water and Waste Management, West Virginia Department of Environmental Protection ("DEP"), on January 19, 2024, with an effective date of March 1, 2024, ("the NPDES Permit"), on the following grounds:

1. By this appeal, MPC is challenging the imposition of various water quality-based permit limits in the Permit. See MPC's Notice of Appeal (filed contemporaneously with this Motion, and incorporated herein by reference).
2. As described in the Notice of Appeal, the Permit authorizes discharges from the Rivesville Power Station Closed Coal Combustion By-Products Landfill located in Marion County, West Virginia ("Facility").

3. When it issued the Permit, the Department appropriately changed the “receiving stream” for the Facility’s discharge at Outlet 006 from an unnamed tributary to the Monongahela River. The Monongahela River has far more assimilative capacity as compared to the unnamed tributary. When it changed the “receiving stream” for the discharge at Outlet 006 to the Monongahela River in the Permit, however, DEP imposed water quality-based permit limits for Aluminum, Arsenic, Beryllium, Cadmium, Iron, and Mercury that become effective on March 1, 2024.<sup>1</sup> These limits that become effective on March 1, 2024, do not reflect mixing with the Monongahela River (*i.e.*, there is no mixing zone and they do not reflect the assimilative capacity of the Monongahela River).
4. In its response to MPC’s comments on the draft version of the Permit, DEP indicated that MPC could collect background data on Aluminum, Arsenic, Beryllium, Cadmium, Iron, and Mercury after the permit limits for these parameters become applicable and submit this data with an application for a major permit modification to establish a mixing zone<sup>2</sup>. *See* Permit, p. 3. This is contrary to DEP’s *Water Quality Standards/Mixing Zones Implementation Guidance* (June 30, 1997)(“*Guidance*”)<sup>3</sup>, which states that “existing facilities seeking mixing zones” are to be given a six to 18 month compliance schedule to submit background data in support of a mixing zone. *See Guidance*, p. 14.

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<sup>1</sup> For Cadmium, DEP imposed interim permit limits that become effective on March 1, 2024, as well as final permit limits that become effective on March 1, 2026. *See* Permit, Section A.006. At this time, MPC seeks a stay of the interim permit limits for Cadmium. DEP imposed monitoring and reporting requirements for Boron effective March 1, 2024, and final permit limits for Boron effective March 1, 2026. MPC reserves the right to supplement this motion or file a separate motion seeking a stay of the final permit limits for Boron and Cadmium, if necessary.

<sup>2</sup> Per DEP’s response, background data can also be collected for Boron, which could be used to modify the limits for Boron that become effective March 1, 2026.

<sup>3</sup> Available at [https://dep.wv.gov/wwe/permit/individual/documents/370\\_mzguide.pdf](https://dep.wv.gov/wwe/permit/individual/documents/370_mzguide.pdf) (last visited on Feb. 22, 2024).

5. DEP rejected MPC's request for a compliance schedule for the permit limits for Aluminum, Arsenic, Beryllium, Cadmium, Iron, and Mercury on other grounds:. 1) DEP indicated that past effluent data reported by MPC for Aluminum, Cadmium, Iron, and Mercury would have exceeded the new or more stringent limits on numerous occasions. Permit, p. 3 (noting that past effluent data would result in five exceedances of the new permit limits for Aluminum, 24 exceedances of the new permit limits for Cadmium, four exceedances of the new permit limits for Iron, and three exceedances of the new permit limits for Mercury). DEP, however, concluded that these would-be exceedances for Aluminum, Iron, and Mercury "are not frequent enough to justify compliance schedules," Permit, p. 3.; and 2) "anti-backsliding" prevents "monitoring only" conditions for Aluminum, Arsenic, and Cadmium limits that were in the prior version of the Permit until final limits become effective, a conclusion with which MPC disagrees and is subject of the appeal.
6. DEP's refusal to grant MPC a compliance schedule or schedules to meet water quality-based permit limits for Aluminum, Arsenic, Beryllium, Cadmium, Iron, and Mercury was contrary to the *Guidance*; inconsistent with W.Va. C.S.R. § 47-10-8.1; was arbitrary, capricious, or an abuse of discretion; was clearly wrong in view of the entire record; and/or was affected by other error of law. Under *W. Va. Code* § 29A-5-4(g), this means that the Permit must be modified or otherwise revised to provide MPC with a reasonable compliance schedule or schedules to meet the permit limits Aluminum, Arsenic, Beryllium, Cadmium, Iron, and Mercury.

7. In the absence of a Stay, the new or more stringent permit limits for Aluminum, Arsenic, Beryllium, Cadmium, Iron, and Mercury will become effective on March 1, 2024. *See* Permit, Section A.006.
8. Should the water-quality based permit limits become effective before the Board has had an opportunity to consider and rule on MPC's appeal, MPC will be at risk of immediate noncompliance and will be required to expend substantial resources that it would not otherwise have been required to devote to that purpose, while this Board may determine that these new or more stringent permit limits should not have been imposed in the first place or must be adjusted based on background data collected from the Monongahela River. MPC's inability to comply with these new or more stringent limits subjects MPC to the possibility of costly enforcement actions and third-party citizens suits, which could result in the expenditure of resources by MPC prior to a hearing on the merits of its Appeal. Furthermore, should the Board find that MPC's appeal is meritorious and that its requested relief should be granted, MPC will have incurred these expenses and suffered these burdens without valid cause, and without any hope of recompense. This constitutes "unjust hardship" sufficient to warrant issuance of a Stay of the relevant provisions of the NPDES Permit under *W.Va. Code* § 22B-1-7(d).

WHEREFORE until such time as the Board issues a final order in this appeal, MPC asks that the Board issue an Order that: (1) grants a Stay of the permit limits for Aluminum, Arsenic, Beryllium, Cadmium, Iron, and Mercury that become effective on March 1, 2024, and a Stay of

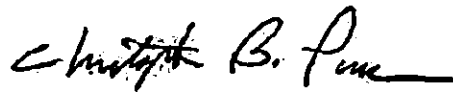
the permit limits for Boron and Cadmium that become effective on March 1, 2026; and (2) subjects MPC to “report only” requirements for Aluminum, Arsenic, Beryllium, Boron, Cadmium, Iron, and Mercury.

Respectfully submitted,

Monongahela Power Company, LLC  
1803 Murdoch Avenue  
Parkersburg, WV 26101

By counsel

Date Filed: February 23, 2024  
Method of Filing: Hand-Delivery



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BEFORE THE WEST VIRGINIA ENVIRONMENTAL QUALITY BOARD

MONONGAHELA POWER COMPANY, LLC,

Appellant,

Appeal No.: \_\_\_\_\_

v.

JEREMY W. BRANDY, DIRECTOR,  
DIVISION OF WATER AND WASTE MANAGEMENT,  
WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION,

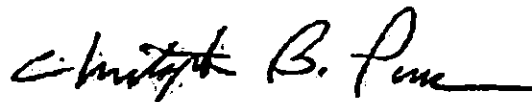
Appellee.

**CERTIFICATE OF SERVICE**

I, Christopher B. Power, counsel for Appellant Monongahela Power Company, do hereby certify that copies of the foregoing Motion for Stay Pending Appeal have been served upon the Appellee and Appellee's counsel, this 23rd day of February 2024, via either hand-delivery or first-class mail, addressed to the following:

Jeremy W. Brandy  
Director, DWWM  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street, S.E.  
Charleston, West Virginia 25304

Jon Frame, Esq.  
Counsel  
Office of Legal Services  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street, S.E.  
Charleston, West Virginia 25304



---

Christopher B. Power



BEFORE THE WEST VIRGINIA ENVIRONMENTAL QUALITY BOARD

MONONGAHELA POWER COMPANY, LLC,

Appellant,

Appeal No.: 24-02-EQB

v.

JEREMY W. BRANDY, DIRECTOR,  
DIVISION OF WATER AND WASTE MANAGEMENT,  
WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION,

Appellee.

RECEIVED

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Environmental Quality  
Board

**NOTICE OF APPEAL**

TO THE ENVIRONMENTAL QUALITY BOARD:

Appellant Monongahela Power Company, LLC (“MPC”) respectfully represents that it is aggrieved by the issuance by the Director of the Division of Water and Waste Management, West Virginia Department of Environmental Protection (“DEP”), of West Virginia Solid Waste/NPDES Permit No. WV0050766 (“Permit”) for the Rivesville Power Station Closed Coal Combustion By-Products Landfill located in Marion County, West Virginia (“Facility”) on January 19, 2024. (A copy of the Permit is attached as Exhibit A). MPC received the Permit from DEP via email on January 25, 2024. More specifically, and as described below, MPC is aggrieved by the following terms and conditions of the Permit:

- (1) The discharge limitations found in Section A.006. of the Permit for Aluminum, Arsenic, Beryllium, Boron, Cadmium, Iron, and Mercury;
- (2) The lack of a Compliance Schedule for the discharge limitations found in Section A.006 of the Permit that become effective on March 1, 2024;
- (3) The 24-month Compliance Schedule for the final discharge limitations found in Section A.006 and Section B. of the Permit for Boron and Cadmium; and

(4) Such other and related language and conditions that are arbitrary and capricious, contrary to law, and duplicate or further compound the errors identified above.

The Appellant therefore prays that this matter be reviewed, and that the Permit be remanded to the DEP to be modified in accordance with the relief requested below.

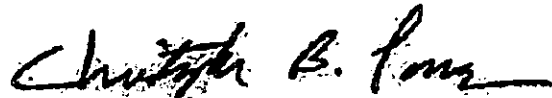
Respectfully submitted,

Monongahela Power Company, LLC

By counsel

Date Filed: February 23, 2024

Method of Filing: Hand-Delivery



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Counsel for Appellant

**A. PERMIT FROM WHICH APPEAL IS BEING TAKEN.**

MPC hereby appeals certain conditions in the Solid Waste/NPDES Permit No. WV0050766 (“Permit”) issued for the Rivesville Power Station Closed Coal Combustion By-Product Landfill located in Marion County (“Facility”) on January 19, 2024.

**B. NATURE AND GROUNDS OF APPELLANT’S CLAIMS.**

**1. MPC Must be Given a Reasonable Opportunity Under a Compliance Schedule to Collect Background Data and Establish a Mixing Zone Before any Water Quality-Based Limits are Imposed.**

- a. The Permit appropriately designates the Monongahela River as the “receiving stream” for the discharge at Outlet 006. Section A.006 of the Permit requires MPC to meet water quality-based permit limits for the Outlet 006 discharge for the following parameters: (1) Aluminum; (2) Arsenic; (3) Beryllium; (4) Boron ( interim monitoring and final permit limits); (5) Cadmium (both interim and final permit limits); (6) Iron; and (7) Mercury.
- b. DEP imposed these water quality-based permit limits without giving MPC any time and a reasonable compliance schedule to complete a study to establish the background concentrations in the Monongahela River for these parameters and without considering the assimilative capacity of the Monongahela River. This stands in contrast to DEP’s *Water Quality Standards/Mixing Zones Implementation Guidance* (June 30, 1997)(“*Guidance*”)<sup>1</sup>, which states that “[f]or existing facilities seeking mixing zones, where information is lacking and generation is not possible within the permitting time frame, the draft permit

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<sup>1</sup> Available at [https://dep.wv.gov/wwe/permit/individual/documents/370\\_mzgguide.pdf](https://dep.wv.gov/wwe/permit/individual/documents/370_mzgguide.pdf) (last visited on Feb. 22, 2024).

should include a compliance schedule that requires the submission of information by the permittee” and “[t]he permit should require the submission of a Modification Application after a reasonable time period for data generation (generally 6-18 months after the effective date of the permit). Within the Modification Application, the permittee would request a mixing zone and provide the required information,” *Guidance*, p. 14. Here, DEP did not follow this *Guidance* to allow MPC any time to collect the required data to support a mixing zone for the Outlet 006 parameters based on a discharge to the Monongahela River.

- c. In the response to MPC’s comments on the draft version of the Permit, DEP stated that MPC “may pursue a default mixing zone upon establishment of background in the Monongahela River for the parameters limited in Section A. of the Permit” and that MPC could do so through “a major permit modification application.” DEP, however, imposed several permit limits that become effective on March 1, 2024, without providing MPC time to establish background and a mixing zone and without recognizing that it could take a significant amount of time for DEP to process and act on a major permit modification application.
- d. DEP’s imposition of these water quality-based permit limits without giving MPC any time and a reasonable compliance schedule to complete a study to establish the background concentrations in the Monongahela River and without considering the assimilative capacity of the Monongahela River is arbitrary, unreasonable, an abuse of discretion, and otherwise contrary to the law.

**2. A Compliance Schedule is Warranted for all Water Quality-Based Effluent Limits that Become Effective on March 1, 2024.**

- a. In addition to disregarding its *Guidance* and not giving MPC any time and a reasonable compliance schedule to gather background data and establish a mixing zone for the Outlet 006 discharge to the Monongahela River, *see supra*, DEP generally refused to grant a compliance schedule for the permit limits that become effective on March 1, 2024.
- b. In its response to MPC's comment requesting a compliance schedule for any new or more stringent permit limit for the discharge at Outlet 006, DEP stated that it "does not issue compliance schedules for parameters in which compliance is not an issue" and then goes on to acknowledge that since 2018, MPC reported what would have been five exceedances of the new permit limits for Aluminum, three exceedances of the new permit limits for Mercury, and four exceedances of the new permit limits for Iron. Permit, p. 3. DEP asserts that these would-be exceedances of the new permit limits for Aluminum, Iron, and Mercury "are not frequent enough to justify compliance schedules." By contrast, DEP states that MPC would have exceeded the new final Cadmium limits on 24 occasions, which in DEP's view warrants a compliance schedule.
- c. Under W.Va. C.S.R. § 47-10-8.1, DEP is authorized to "specify a compliance schedule leading to compliance" with NPDES permit limits "when appropriate." DEP's own analysis of MPC's past reported effluent data shows that MPC may not be able to achieve consistent and immediate compliance with the new or more stringent permit limits for Aluminum, Iron, and Mercury.

Compliance with the new or more stringent permit limits Aluminum, Iron, and Mercury may require MPC to evaluate potential wastewater treatment technologies and if necessary, install such technologies at the Facility to ensure consistent compliance with the new or more stringent permit limits.

- d. DEP's failure to grant MPC a compliance schedule to meet the permit limits for Aluminum, Iron, and Mercury is arbitrary, unreasonable, an abuse of discretion, and otherwise contrary to the law.

**3. The 24-Month Compliance Schedule for the Final Boron and Cadmium Permit Limits is Unreasonably Short.**

- a. Section A.006 of the Permit imposes interim and final permit limits for the discharge at Outlet 006 for Boron and Cadmium. The final Outlet 006 permit limits for both Boron and Cadmium become effective on March 1, 2026. Part B (Schedule of Compliance) establishes a 24-month compliance schedule to achieve the final permit limits for these parameters.
- b. Under W.Va. C.S.R. § 47-10-8.1.a, a "schedule of compliance shall require compliance as soon as possible," although W.Va. C.S.R. § 47-10-8.1.c allows compliance schedules to run for multiple years, provided that "interim requirements and dates for their achievement," including progress reports, are required in the compliance schedule.
- c. DEP imposed a 24-month compliance schedule for MPC to meet the new final limits for Boron and Cadmium. DEP provided no analysis or evaluation in the fact sheet for the Permit or response to MPC's comments on the draft version of the Permit as to why 24 months was deemed to be a sufficient amount of

time for MPC to meet these new final permit limits for Boron and Cadmium. An inflexible 24-month compliance schedule also does not leave sufficient time for DEP to modify the Permit or issue new permits or authorizations that may be needed to comply with the new final permit limits for Boron and Cadmium.

- d. DEP's failure to grant MPC a compliance schedule of more than 24 months to meet the new permit limits for Boron and Cadmium is arbitrary, unreasonable, an abuse of discretion, and otherwise contrary to the law.

**4. DEP's Improper Reliance on "Backsliding" to Impose Aluminum, Arsenic, and Cadmium Permit Limits<sup>2</sup>.**

- a. Section A.006 of the Permit imposes permit limits for Aluminum, Arsenic, and Cadmium, some of which were imposed in the most recent version of the Permit issued for the Facility, when the "receiving stream" for the Outlet 006 discharge was considered to be to an unnamed tributary and not the Monongahela River. The Average Monthly permit limit for Aluminum was changed from 0.24 milligrams per liter to 0.23 mg/L in the Permit, and the Maximum Daily permit limit for Arsenic was changed from 0.016 mg/L to 0.015 mg/L, as compared to the most recent version of the Permit issued for the Facility. The Average Monthly and Maximum Daily permit limits for Cadmium in the Permit are the same as those that were imposed in the prior version of the Permit.
- b. In response to MPC's comments, DEP stated that "[i]t should also be noted that should the agency grant compliance schedules for parameters that became more

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<sup>2</sup> Although DEP did not assert that "backsliding" requires it to impose the interim Cadmium limits at Outlet 006, the interim limits for Cadmium in the Permit are the same as those that were effective in the prior version of the Permit, suggesting that DEP believes that "anti-backsliding" requires it to impose the interim Cadmium limits in the Permit.

stringent (arsenic and aluminum) the interim limitation is required to be the effective limit from the previous permit due to anti-backsliding requirements.”

Permit, p. 3.

- c. The governing regulations, however, do not mandate that DEP impose permit limits from a prior permit in all cases. More specifically, W.Va. C.S.R. § 47-10-6.3.j.2.C. provides that DEP need not impose more stringent permit limits from a prior permit when “[t]he circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance.” The previous permit for the facility considered an unnamed tributary as the “receiving stream,” but in November 2023, DEP’s Watershed Assessment Branch (“WAB”) conducted a field study and concluded that this unnamed tributary is a wet-weather stream. Based on the WAB’s evaluation, DEP changed the “receiving stream” for the discharge at Outlet 006 to the Monongahela River. This is a material and substantial change that required DEP to evaluate the propriety of the Arsenic and Aluminum limits that were imposed in the prior permit.
- d. DEP’s failure to revisit and reassess the Aluminum, Arsenic, and Cadmium limits from the prior permit is arbitrary, unreasonable, an abuse of discretion, and otherwise contrary to the law.

**5. DEP’s Imposition of Boron Limits for Discharge at Outlet 006 is Arbitrary, Unreasonable, An Abuse of Discretion, and Otherwise Contrary to Law.**



- a. In Section A.006 of the Permit, DEP imposes new permit limits for Boron that are to take effect on March 1, 2026. In the response to comments and fact sheet for the Permit, DEP states that it used the LC50 for Boron from a study entitled "Acute and Chronic Toxicity of Boron to a Variety of Freshwater Organisms"; Soucek, Dickenson, and Koch; *Environmental Toxicity and Chemistry* Vol. 30 No. 8; 2011, and a "human health advisory level for Boron" developed by the U.S. Environmental Protection Agency to assess "reasonable potential" and then presumably to develop the new Boron permit limits for the Outlet 006 discharge.
  - b. The new Boron limits for the Outlet 006 discharge appear to have been imposed pursuant to the DEP's interpretation of W. Va. C.S.R. § 47-2-9, *Establishment of Safe Concentration Values*, as well as DEP's interpretation of West Virginia's narrative water quality criteria in W. Va. C.S.R. § 47-2-3.2.e. DEP's imposition of the new Boron limits for the Outlet 006 discharge is arbitrary, capricious, unreasonable, an abuse of discretion, and contrary to the law because (among other errors) the conditions to the proper application of that regulation have not been satisfied.
6. Such other and further grounds as may be revealed or supported by the record, discovery, and evidence developed in this appeal.

**C. QUESTIONS OF FACT**

1. Is a compliance schedule to establish background data and mixing considerations appropriate when the "receiving stream" for a discharge is changed from a stream

with little to no assimilative capacity to a river with significant assimilative capacity?

2. Is a compliance schedule appropriate when past reported effluent data shows a potential for exceedances of newly established water quality-based effluent limits?
3. Is the change in a receiving stream from an unnamed tributary to a major river a material and substantial change to an NPDES permit?
4. Do the Boron concentrations in the Facility's discharge at Outlet 006 pose a risk to aquatic life or human health?
5. Such other and further questions of fact as may be raised by the administrative record, discovery, and evidence developed during this appeal.

#### **D. QUESTIONS OF LAW**

1. Was it arbitrary, capricious, an abuse of discretion, or otherwise inconsistent with law for the DEP to refuse to grant MPC a compliance schedule to collect background data and establish a mixing zone for the Outlet 006 discharge to the Monongahela River before imposing water-quality based effluent limits?
2. Was it arbitrary, capricious, an abuse of discretion, or otherwise inconsistent with law for the DEP to refuse to grant MPC a compliance schedule for the water-quality based effluent limits that become effective on March 1, 2024?
3. Was it arbitrary, capricious, an abuse of discretion, or otherwise inconsistent with law for the DEP to limit the compliance schedule for the new final Cadmium and new final Boron permit limits to 24 months?

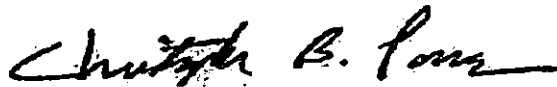
4. Was it arbitrary, capricious, an abuse of discretion, or otherwise inconsistent with law for the DEP to rely on the general “anti-backsliding” prohibition when there has been a material and substantial change involving the designated “receiving stream” for the Outlet 006 discharge?
5. Was it arbitrary, capricious, an abuse of discretion, or otherwise inconsistent with law for the DEP to impose a new final Boron permit limit for the Outlet 006 discharge to protect narrative water quality criterion?
6. Such other and further questions of law as may be raised by discovery and evidence introduced at hearing.

WHEREFORE the Appellant asks that the Board review the Permit, the Certified Record, and evidence to be presented, and enter an Order: (1) remanding the Permit to the DEP so that it may make the changes to it identified under each specific section of this Notice set forth above; and (2) granting such other and further relief as may be shown to be proper.

Respectfully submitted,

Monongahela Power Company

By Counsel



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Christopher B. Power (W. Va. Bar No. 4286)  
Robert M. Stonestreet (W. Va. Bar No. 9370)  
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Counsel for Appellant, Monongahela Power Company

BEFORE THE WEST VIRGINIA ENVIRONMENTAL QUALITY BOARD

MONONGAHELA POWER COMPANY, LLC,

Appellant,

Appeal No.: \_\_\_\_\_

v.

JEREMY W. BRANDY, DIRECTOR,  
DIVISION OF WATER AND WASTE MANAGEMENT,  
WEST VIRGINIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION,

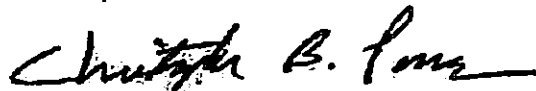
Appellee.

**CERTIFICATE OF SERVICE**

I, Christopher B. Power, counsel for Appellant Monongahela Power Company, do hereby certify that copies of the foregoing Notice of Appeal have been served upon the Appellee and Appellee's counsel, this 23rd day of February 2024, via either hand-delivery or first-class mail, addressed to the following:

Jeremy W. Brandy  
Director, DWWM  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street, S.E.  
Charleston, West Virginia 25304

Jon Frame, Esq.  
Counsel  
Office of Legal Services  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street, S.E.  
Charleston, West Virginia 25304



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Christopher B. Power



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**west virginia** department of environmental protection

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Division of Water and Waste Management  
601 57th Street SE  
Charleston, West Virginia 25304-2345  
Phone: 304-926-0495  
Fax: 304-926-0463

Harold D. Ward, Cabinet Secretary  
<https://dep.wv.gov>

January 19, 2024

Carol Trembly  
First Energy Corporation  
dba Monongahela Power Company, LLC  
1803 Murdoch Avenue  
Parkersburg, WV 26101

**CERTIFIED RETURN RECEIPT REQUESTED**

Dear Permittee:

Enclosed please find Solid Waste/NPDES Permit Number WV0050776 dated January 19, 2024.

Monongahela Power's comments were received by letter dated August 30, 2023. The following is the agency's response to these comments regarding the draft permit that went to public notice on May 31, 2023.

Comment No. 1 : The receiving stream for Outlet 006 is the Monongahela River.

Based on the WVDEP stream database, the unnamed tributary identified in the draft permit is the receiving stream. The comment letter indicated that the request to remove UNT 120.2 as a "regulated" water was not approved by the agency. That said, The agency had its Watershed Assessment Branch evaluate the stream for its ability to support aquatic life and to evaluate its flow status as defined by the water quality standards of West Virginia (Series 2, Requirements Governing Water Quality Standards Rule - Title 47CRS2 Rule Document Effective February 28, 2022). The field study was performed 11/30/2023. The results of the study concluded that the unnamed tributary would be most appropriately classified as a wet-weather stream with flowing water present only in response to precipitation. Therefore, the receiving stream has been revised to the Monongahela River. End of pipe limitations are imposed based on protection of the new receiving stream.

Since the WAB evaluation was based on one site visit a requirement to confirm the wet-weather nature of the feature during the term of the permit has been added to Section B.

As for the federal ruling cited in the comment letter concerning Waters of the United States, the agency believes the issue moot due to the classification of UNT 120.02 as a wet weather stream.

Comment No. 2 : Reasonable Potential only exists for two parameters at Outlet 006.

**Promoting a healthy environment.**

Background has not been established in the Monongahela River; therefore, a default mixing zone cannot be granted at this time. The permittee may pursue a default mixing zone upon establishment of background in the Monongahela River for the parameters limited in Section A of the permit. The request may be submitted with a major permit modification application.

Comment No. 3 : Outlet 006 Boron WQBEL should be removed.

Limitations must control all pollutants which may be discharged at a level which will cause, or have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. Additionally, where a State has not established a water quality criterion for a specific chemical pollutant that is present in an effluent at a concentration that causes, has the reasonable potential to cause, or contributes to an excursion above a narrative criterion within an applicable State water quality standard, the permitting authority must establish effluent limits per 40 CFR 122.44(d)(i) and (ii). In determining an appropriate value to be protective of narrative criterion, risk assessment data may be considered. West Virginia does not currently have any numeric water quality criteria prescribed for Boron. However, the agency does have concerns with the toxicity from Boron and its impact on the narrative water quality criteria found in 47 CSR 2, Section 3.2.e which prohibits discharges from discharging materials in concentrations which are harmful to or toxic to man, animal, or aquatic life. Therefore, the agency does possess a narrative water quality criterion which can be used for limiting specific pollutants where the State has no numeric criteria for those pollutants and is required to impose limitations on pollutants that "...may be discharged at a level which will cause, have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality" per 40 CFR 122.44. Boron is present in concentrations above a risk based safe concentration value and therefore the agency believes that regulation of boron is necessary.

Comment No. 4 : Outlet 006 Boron WQBEL should be removed. (cont.)

In 2004, the US EPA developed a human health advisory level for Boron which was developed using risk assessment procedures. EPA's health advisories are based on the best available peer-reviewed studies of the effects of Boron on laboratory animals (rats and mice) and were also informed by epidemiological studies of human populations that have been exposed to Boron. These studies indicate that exposure to Boron over certain levels may result in adverse health effects, including developmental effects to fetal body weight and other developmental endpoints (total malformations, enlarged lateral ventricles in the brain, shortening of rib, and variations of the first lumbar rib). The US EPA has established a human health advisory level of 5 milligrams per liter (mg/L) for Boron for adults. WVDEP is using this value to be protective of the State's narrative water quality criteria for human health and the designated uses of the Monongahela River. Again, limitations based on the State narrative criteria must be imposed per 40 CFR 122.44(d)(i) and (ii).

Comment No. 5 : WVDEP should issue a compliance schedule for any new or more stringent WQBEL at Outlet 006.

The agency does not issue compliance schedules for parameters in which compliance is not an issue. A review of eDMR data shows the following potentially non-compliant results (2018 - present) for newly imposed or more stringent limitations:

Iron - 4 exceedances in 130 results (total of avg and max limits)  
Beryllium - 0 exceedances in 130 results (total of avg and max limits)  
Mercury - 3 exceedances in 42 results (total of avg and max limits)  
Arsenic - 0 additional exceedances in 130 results (total of avg and max limits)  
Aluminum - 5 additional exceedances in 130 results (total of avg and max limits)  
Cadmium- 24 additional exceedances in 130 results (total of avg and max limits)

The results above for the new or more stringent limitations for these parameters, with the exception of cadmium, are not frequent enough to justify compliance schedules. It should also be noted that should the agency grant compliance schedules for the parameters that became more stringent (arsenic and aluminum) the interim limitation is required to be the effective limit from the previous permit due to anti-backsliding requirements. In these cases, the potentially non-compliant result was above both the previously effective limitation and the more stringent new limitation which would not provide the permittee any relief.

A compliance schedule has been granted for cadmium.

Comment No. 6 : Monthly average reporting for MW101, MW103, MW104, MW105, MW106, MW107A, MW107B, and MW-108B must be deleted.

The requested change has been made.

Comment No. 7 : All proposed requirements related to assessment of corrective measures for arsenic in groundwater should be deleted.

The permittee has not completed assessment of corrective action and therefore completion of the activities in 33 CSR 1, Section 4.11.e and 4.11.f must be completed. The agency cannot waive these requirements via a permit or enforcement action. Environmental Enforcement's response on November 18, 2021 indicated this. In their response EE indicated that all requirements of the Order were still in full force and that the permittee must confirm that no further corrective action will be needed in the future. No Further Action was not granted nor could be granted. The response further indicated that failure to complete all necessary corrective actions at the site are a violation of the Order. Upon further review of the Groundwater Assessment report, the agency has determined that assessment of corrective action was not completed and a remedy has not been selected. The permittee must complete assessment of corrective action, hold a public meeting, and select a remedy. The agency provided time in Section B to complete these activities as allowed by the rule.

Comment No. 8 : All proposed requirements related to assessment of corrective measures for arsenic in groundwater should be deleted. (cont.)

As for the relevant point of compliance cited in the comment letter, the Groundwater Assessment indicated that the relevant point of compliance was only considered and placed in one downgradient direction based on very limited potentiometric information. Upon installation of the new wells the potentiometric surface was revised and additional potentially downgradient directions were identified by the permittee. However, the permittee did not evaluate whether compliance in those additional downgradient directions have been achieved. The relevant point of compliance must consider the quantity, quality, and direction of flow of groundwater and the proximity and withdrawal rate of groundwater users per 4.5.d.1.G.2.(b) and 4.5.d.1.G.2.(d) respectively. Assessment at the point of compliance must be assessed in all horizontal and vertical directions (i.e. the point of compliance is considered the entire vertical surface at the hydraulically downgradient limit of the waste management unit boundary, see definitions in 40 CFR 258.2). It is inappropriate to limit the assessment to a single point of compliance when there is the potential for groundwater to move in multiple downgradient directions. Only after confirming that receptors are not located in all potential downgradient directions can the consideration of the additional point(s) of compliance be potentially eliminated. The agency recommends developing a complete Site Conceptual Model to eliminate all potential transport mechanisms and exposure pathways.

Comment No. 9 : All proposed requirements related to assessment of corrective measures for arsenic in groundwater should be deleted. (cont.)

As stated in the draft permit and fact sheet, while the permittee did develop a point of compliance in the westerly direction, no wells were installed or investigation performed in the southwest direction or horizontally or vertically to the northeast or into the mined areas in the geologic formation(s). All of these areas were identified as a potentially downgradient by the permittee in its 2021 Groundwater Assessment Report (Section 3.2.3). Since no attempts were made to quantify the quantity, quality, and direction of flow of groundwater in these directions, contrary to the comment letter, the proximity of groundwater users (including surface water users per 47 CSR 12, Section 3.3) cannot be eliminated.

Comment No. 10 : Numerous requirements in Section D should be deleted or revised.

#### Section D.2.b

The agency only identified boron and manganese in this section since they were identified as having tolerance limits across the groundwater protection standard and have the potential to statistically exceed the GWPS. In reality, the permittee is not prohibited from calculating a Lower Confidence Limit (LCL) for comparison for any parameter listed in D.2.b. Do note that for "not to exceed" parameters, such as those identified as minimum purity and quality standards in 47 CSR 12, and those with an increasing statistical trend the permittee shall calculate the LCL based on an upper percentile.

D.2.c.(1) and D.2.c.(3)

See the response to comment number 7.

#### Section D.2.d



The GWPS for arsenic has been revised to 0.0292 mg/l per the comment letter. However per the response below Section D.2.d has been revised. The arsenic groundwater standard has been incorporated in Section A.MW106.

Section D.2.d

In a letter to the agency on September 23, 2021, Monongahela Power indicated that further Assessment of Corrective Measures and Selection of a Remedy were no longer necessary based on the Groundwater Assessment Report submitted in September 2021 by the permittee. As stated in the response to comment number 7, once Assessment of Corrective Action begins under 33 CSR 1, Section 4.11.e the agency cannot waive completion of the assessment either via a permit action or an enforcement action. The permittee must complete the steps identified in Section 4.11.e.1-4.11.e.4. All steps must be completed, a public hearing must be held, and a remedy selected per Section 4.11.f. While the agency can determine that remediation is not necessary per Section 4.11.f.5, a non-remedial remedy still must be selected in that case. The draft permit therefore imposed additional assessment requirements and timeframes based on the Solid Waste Management's review of the Groundwater Monitoring and Corrective Action Program at the site.

Comment No. 11 : Numerous requirements in Section D should be deleted or revised. (cont.)

That said, the permittee has indicated in the comment letter and a follow up meeting on 11/9/2023 that Assessment of Corrective Action has not in fact been completed whereas the Groundwater Assessment Report indicated that Corrective Measures were no longer necessary; therefore, due to this the agency's confusion, Section D.2.d h has been revised and the arsenic GWPS imposed in Section A of the permit. The permittee shall complete assessment of corrective action and selection of a remedy per Section B of the permit.

Please note that a Discharge Monitoring Report (DMR) is to be completed and submitted to this Division each month.

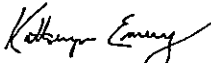
Finally note that copies of all future correspondence regarding the permit must be forwarded to the Field Inspector and Field Supervisor at the following address:

Department of Environmental Protection  
Environmental Enforcement  
2031 Pleasant Valley Road  
Fairmont, WV 26554

Also, please note the attachment to this permit which describes the annual permit fee requirement. Reissuance of your permit does not change the annual fee billing cycle.

Carol Trembly  
Page 6  
January 19, 2024

Sincerely,

  
Katheryn Emery, P.E.  
Director

KE:ks

Enclosures

**Permit Number: WV0050776**

**Permittee: MONONGAHELA POWER COMPANY**

**cc: Env. Insp. Supv.  
Env. Insp.**



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 DIVISION OF WATER AND WASTE MANAGEMENT  
 601 57TH STREET SE  
 CHARLESTON, WV 25304-2345

SOLID WASTE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0050776  
 SUBJECT: Solid Industrial Waste

ISSUE DATE: January 19, 2024  
 EFFECTIVE DATE : March 01, 2024  
 EXPIRATION DATE: January 18, 2029  
 SUPERSEDES: Permit No. WV0050776  
 dated February 18, 2015

LOCATION: RIVESVILLE	Marion	Monongahela River
(City)	(County)	(Drainage Basin)

See the next page for a list of Outlets.

**TO WHOM IT MAY CONCERN:**

**This is to certify that:** MONONGAHELA POWER COMPANY  
 1803 MURDOCH AVENUE  
 PARKERSBURG, WV 26101

**is hereby granted a West Virginia NPDES Water Pollution Control Permit to:**

1. Maintain and monitor a closed industrial solid waste disposal facility in the drainage basin of an unnamed tributary of the Monongahela River previously utilized for the disposal of waste materials generated at the Rivesville Power Station.
2. Maintain and monitor a closed industrial solid waste disposal facility in the drainage basin of Parker Run, a tributary of the Monongahela River, previously utilized for the disposal of waste materials generated at the Rivesville Power Station.
3. Operate and maintain a treatment and disposal system (surface impoundment) and best management practices for the direct discharge of treated industrial wastes or other wastes (stormwater runoff and leachate) into the waters of an unnamed tributary of the Monongahela River (Outlet No. 006).
4. Acquire, construct, install, operate, and maintain a low weir at the stormwater treatment and disposal system according to the designs and specifications submitted with Modification Application Number WV0050776-A, dated April 6, 2022.

**This permit is subject to the following terms and conditions :**

The information submitted on and with Permit Application No. WV0050776 dated the 14th day of August 2019, Permit Application No. WV0050776 dated the 26th day of August 2014, Permit Application No. WV0050776 dated the 19th day of November 2007, Permit Application No. WV0050776 dated the 29th day of October 2001, Permit Application No. WV0112160 dated the 17th day of February 2006, and the information submitted on and with letters dated the 4th day of September 1992, the 10th of September 2001, and the 2nd day of May 2008 are all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein and with other conditions set forth in Sections A, B, C, D, and Appendix A.

**The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.**

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (In Mile)	Milepost
006	39°32'24"	80°05'25"	MONONGAHELA RV	N/A	118.5
LM1	39°32'30"	80°05'30"	N/A	N/A	N/A
LM2	39°32'24"	80°05'26"	N/A	N/A	N/A
MW101	39°32'14"	80°05'41"	N/A	N/A	N/A
MW103	39°32'24"	80°05'31"	N/A	N/A	N/A
MW104	39°32'25"	80°05'28"	N/A	N/A	N/A
MW105	39°32'22"	80°05'29"	N/A	N/A	N/A
MW106	39°32'23"	80°05'41"	N/A	N/A	N/A
MW107A	39°32'23"	80°05'46"	N/A	N/A	N/A
MW107B	39°32'23"	80°05'45"	N/A	N/A	N/A
MW108B	39°32'25"	80°05'43"	N/A	N/A	N/A

**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Frequency</u>	<u>Sample Type</u>			
50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) Interim: 3/1/2024 to 2/28/2026	N/A	N/A	N/A	N/A	0.0008 Avg. Monthly	0.002 Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) Final: 03/01/2026 to 1/18/2029	N/A	N/A	N/A	N/A	0.0002 Avg. Monthly	0.0004 Max. Daily	mg/l	1/month	Grab
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>					
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.0093 Avg. Monthly	0.02 Max. Daily	ug/l	1/month	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.23 Avg. Monthly	0.8 Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.89 Avg. Monthly	2.7 Max. Daily	mg/l	1/month	Grab
61426 - (Chronic Tox-Ceriodaphnia Du) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/year	8 hr comp
61428 - (Chronic Toxicity - Pimephales) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/year	8 hr comp
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.01 Avg. Monthly	0.015 Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.



**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Frequency</u>	<u>Type</u>			
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01007 - (Barium, Total (as Ba)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A) Interim: 3/1/2024 to 2/28/2026	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A) Final: 03/01/2026 to 1/18/2029	N/A	N/A	N/A	N/A	3.8 Avg. Monthly	7.5 Max. Daily	mg/l	1/month	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00722 - (Cyanide, Free) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Frequency</u>			
81020 - (Sulfate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00998 - (Beryllium, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.004 Avg. Monthly	0.008 Max. Daily	mg/l	1/month	Grab
01152 - (Total Titanium (as Ti)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
71870 - (Bromide) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**ALM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01055 - (Manganese, Total (as Mn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01027 - (Cadmium, Total (as Cd)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.

35

**ALM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
01042 - (Copper, Total (as Cu)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01051 - (Lead, Total (as Pb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01077 - (Silver, Total (as Ag)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01012 - (Beryllium, Total (as Be)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01007 - (Barium, Total (as Ba)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.

36

**A.LM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01092 - (Zinc, Total (as Zn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.

**A.LM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Other Units</u>		<u>Units</u>	<u>Monitoring Requirements</u>	
	<u>Quantity</u>		<u>Units</u>					<u>Measurement Frequency</u>	<u>Sample Type</u>
01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01067 - (Nickel, Total (as Ni)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.

**ALM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01055 - (Manganese, Total (as Mn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01027 - (Cadmium, Total (as Cd)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011

39

**ALM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Frequency</u>	<u>Sample Type</u>			
01042 - (Copper, Total (as Cu)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01051 - (Lead, Total (as Pb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01077 - (Silver, Total (as Ag)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01012 - (Beryllium, Total (as Be)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01007 - (Barium, Total (as Ba)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011



**A.LM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Frequency</u>	<u>Sample Type</u>			
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01092 - (Zinc, Total (as Zn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011

**A.LM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Frequency</u>			
01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01067 - (Nickel, Total (as Ni)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011

**AMW101 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW101 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW101

**A:MW101 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW101 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW101

**A.MW101 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW101 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt. Only Max. Daily	ug/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

45

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW101

**A.MW103 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW103 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.05 Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2387 Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW103

**A.MW103 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW103 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	14 Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2.29 Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1170 Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW103

47

**A.MW103 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW103 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	13.1 Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.39 Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	4 Max. Daily	ug/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

48

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW103



**A.MW104 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW104 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Quantity</u>		<u>Monitoring Requirements</u>			<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
			<u>Units</u>		<u>Other Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2387 Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW104

**A.MW104 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW104 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2.29 Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1170 Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW104

**AMW104 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW104 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	13.1 Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.39 Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW104

**A.MW105 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW105 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.05 Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2387 Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW105

**A.MW105 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW105 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1170 Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW105

**AMW105 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW105 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	13.1 Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.39 Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

54

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW105

**AMW106 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW106 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>						<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.05 Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2387 Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW106

**A.MW106 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW106 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>						<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>	<u>Units</u>			
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	14 Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2.29 Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1170 Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C) Interim: 3/1/2024 to 4/30/2026	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily See Section D.2.b	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C) Final: 05/01/2026 to 1/18/2029	N/A	N/A	N/A	N/A	N/A	0.0292 Max. Daily See Section D.2.b	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW106



**A.MW106 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW106 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	13.1 Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.39 Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

57

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW106

**AMW107A MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW107A (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only mg/l Max. Daily	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only S.U. Max. Daily	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only mg/l Max. Daily	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only mg/l Max. Daily	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only mg/l Max. Daily	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only UMHO/CM Max. Daily	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 mg/l Max. Daily	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.3 mg/l Max. Daily	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW107A

58

**A.MW107A MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW107A (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.015 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW107A

**A.MW107A MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW107A (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l 1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l 1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107A

6

**A.MW107B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW107B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.3 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107B

**A.MW107B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW107B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.015 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107B

**A.MW107B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW107B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW107B

**A.MW108B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW108B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.3 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW108B



**A.MW108B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW108B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.015 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW108B

**A.MW108B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 3/1/2024 and lasting through midnight 1/18/2029 the permittee will monitor Well Number(s) MW108B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW108B

## **B. SCHEDULE OF COMPLIANCE**

### **1. The permittee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

- Jun 01, 2024: The permittee shall submit a plan of action that identifies the courses of action to be taken by the permittee that will result in compliance with the final effluent limitations for boron and cadmium at Outlet 006.
- Sep 01, 2024: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron and cadmium at Outlet 006.
- Dec 01, 2024: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron and cadmium at Outlet 006.
- Mar 01, 2025: The permittee shall complete any studies, complete any designing or engineering, obtain any necessary funding, and commence implementation of any action specified in the latest revision of the plan of action for compliance in order to achieve compliance with the for boron and cadmium at Outlet 006.
- The permittee shall also submit a progress report which summarizes actions taken and additional actions to be taken in the future to achieve compliance with the final effluent limitations for boron and cadmium at Outlet 006.
- Jun 01, 2025: The permittee shall begin the construction of any upgrades or system modifications necessary to comply with the final effluent limitations for boron and cadmium at Outlet 006.
- The permittee shall also submit a progress report which summarizes actions taken and additional actions to be taken in the future to achieve compliance with the final effluent limitations for boron and cadmium at Outlet 006.
- Sep 01, 2025: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron and cadmium at Outlet 006.
- Sep 01, 2025: The permittee shall complete assessment of Corrective Action for arsenic in groundwater per Section D.2.c and 33 CSR 1, Section 4.11.e. Upon completion of the assessment the permittee shall, within a reasonable time period, discuss the results in a public meeting with interested and affected parties per 33 CSR 1, Section 4.11.e.4.
- Dec 01, 2025: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron and cadmium at Outlet 006.
- Mar 01, 2026: The permittee shall complete the construction of any necessary upgrades or system modifications and shall comply with the final effluent limitations for boron and cadmium at Outlet 006.
- May 01, 2026: The permittee shall select a remedy for arsenic in groundwater and incorporate the remedy into the permit per a major permit modification application.

## **B. SCHEDULE OF COMPLIANCE**

- 1. The permittee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

Jan 18, 2029: The permittee shall confirm Watershed Assessment Branch's (WAB) evaluation of UNT 120.02 as a wet-weather stream and submit a summary report with the permit renewal application including, at a minimum, data from installation of instrumentation with conductivity loggers (which can detect the presence of water) for a minimum of one year to directly measure flow occurrence and duration. At least three site visits to collect streamflow indicator data during flow periods shall be performed. The sample location shall be located approximately 40 meters upstream of the Monongahela River (XY: 39.541583, -80.087439).

- 2. Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.**

### Section C - Other Requirements

1. No additional disposal of waste materials may be undertaken.
3. Reporting
  - a. Monitoring reports for the inspectable units referenced on page 2 of this permit shall be submitted to the agency's electronic monitoring report system and shall be received no later than the twentieth (20) day following the end of the reporting period.
  - b. Annual report. An annual report is to be submitted for the previous calendar year to the addresses indicated in Condition C.10 before September 30 of the following year and shall include the following information:
    - (1) Summary of the previous year's monitoring activities.
    - (2) A brief narrative describing the status of the facility which shall include any remedial activities and routine maintenance at the facility including the cleanout of the leachate detection system lines underlying the surface impoundment required by Condition C.11.
    - (3) The groundwater flow rate and direction required by Condition D.1.c.
4. Colorimetric analytic methods, as specified in 40CFR Part 136, shall not be utilized to determine total recoverable metals concentrations (see Appendix A, Section III.3)
5. The limitations for pH referenced in Section A.006 are 6.0 Standard Units minimum and 9.0 Standard Units maximum.
6. The permittee shall inspect prior to the spring and fall planting seasons the vegetative cover of the landfill surface depicted on Drawing C7550011 of Permit Application No. WV0050776 dated November 19, 2007, and the vegetative cover of the landfill surface depicted on Figure 2 of Permit Application No. WV0112160 dated February 17, 2006. Areas that are deficient of vegetative cover shall be re-seeded to establish a satisfactory stand of vegetation if a 90% or greater cover of perennial grasses or legumes has not been established.
7. The permittee shall quarterly examine the landfill surfaces referenced in Condition C.6 for: 1) evidence of cracking or erosion which could allow waters to enter solid waste deposits, and 2) evidence of settling of solid waste causing ponding of surface water. Surfaces which have cracked, eroded, or settled, shall be repaired by any necessary regrading, additions of cover material, and re-vegetation activities. Erosional areas exceeding one foot in depth shall be reclaimed by November of each year. At a minimum, reclamation measures to be undertaken include placement of soil materials within the areas of erosion to the elevation of the surrounding ground surface, establishment of positive drainage, placement of sediment control devices, and establishment of a vegetative cover meeting the requirements referenced in Condition C.6.
8. The permittee shall maintain in good operating condition all existing sediment and erosion control structures. Settled solids shall be removed from the surface impoundment when these solids accumulate to 60% of the structure's total capacity or when re-suspension of solids begins, whichever occurs first.
9. The following activities are prohibited unless specifically approved by permit modification.
  - a. Use of the facility for agricultural purposes.
  - b. Establishment or construction of any buildings.
10. Submission of information other than the reports referenced in Condition C.3.a. shall be sent to the following addresses:

Director  
Div. of Water & Waste Mgmt.  
601 57th St. SE  
Charleston, West Virginia 25304  
Attention: Kenneth Wandling  
kenneth.wandling@wv.gov
11. The permittee shall annually utilize a water jet cleanout device or equivalent equipment to clean the leachate detection system lines underlying the surface impoundment.
12. The permittee is authorized to excavate coal combustion by-products in accordance with the following stipulations:

## Section C - Other Requirements

12. a. Excavation activities shall not disturb the leachate collection system.
  - b. The area to be excavated shall be minimized.
  - c. The drainage slope of the area to be excavated shall be maintained.
  - d. Benching within the area to be excavated shall be maintained.
  - i. Concurrent with the Annual Report required by Condition C.3.(b), the quantity and type of coal combustion by-products excavated during the prior year shall be provided.
  - e. In areas where final soil cover must be removed, said cover shall be replaced, regraded and revegetated. Soil cover shall achieve a minimum thickness of twelve inches, regraded slopes shall not exceed 3H:1V between benches and a 90% vegetative cover consisting of perennial grasses or legumes shall be established.
  - f. Erosion and sedimentation control structures, such as silt fencing, shall be utilized to control runoff from areas to be excavated. Said structures shall be routinely examined for accumulated sediment. Accumulated sediment shall be removed in a timely manner in order to maximize the efficiency of the erosion and sedimentation control structures.
  - g. Appropriate notifications will be provided to the addresses indicated in Condition C.10 in accordance with Section 5.5.b.4.C. of Title 33, Series 1, Solid Waste Management Rule.
  - h. The location of areas where coal combustion by-products were excavated during the prior year shall be indicated on the topographic map referenced in Condition C.3.b.(3). Cross-sections showing the volume of areas excavated shall also be provided.
13. The permittee shall semi-annually obtain grab samples of leachate discharging from the leak detection sump depicted on Drawing C7550018 and the 3" plastic leachate pipe depicted on Drawing C7550011 which shall be analyzed as required by Sections A.LM1 and A.LM2, respectively. One hundred twenty (120) days shall transpire between sampling events at locations LM1 and LM2.
14. The permittee shall prevent the establishment of trees and shrubs upon the embankment of the surface impoundment.
15. The permittee shall annually after the summer growing season cut vegetation within the landfill collection and diversion ditches and within the landfill haul road collection and diversion ditches to within six (6) inches of the ground surface and subsequently remove the vegetation. Concurrently, vegetative materials located adjacent to said ditches which either obscure their view or jeopardize their integrity shall be trimmed or removed.
16. Any "not detected (ND)" sampling result obtained by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and shall be reported on the DMR as less than the MDL used (<MDL). The permittee shall not report a sampling result as Zero or "ND" or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL). When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use the actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.
17. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA approved Test Method with a listed method detection level equal to or less than the method detection level referenced below. Regardless, it is recognized that detection levels can vary from sample matrix to matrix and from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

**Section C - Other Requirements**

17. a.	Parameter	EPA Method No.	Method Detection Level (ug/l)
	Copper, Total Recoverable	200.8	0.5
	Lead, Total Recoverable	200.8	0.6
	Zinc, Total Recoverable	200.8	1.8
	Nickel, Total Recoverable	200.8	0.5
	Arsenic, Total	200.8	1.4
	Thallium, Total Recoverable	200.8	0.3
	Antimony, Total Recoverable	200.8	0.4
	Selenium, Total Recoverable	200.8	1.0
	Beryllium, Total Recoverable	200.8	0.44**
	Chromium, Hexavalent	218.6	0.6
	Mercury, Total*	245.7	0.0018
	Mercury, Total*	1631	0.0002
	Molybdenum, Total Recoverable	200.8	0.3

\*The permittee may use either Method 245.7 or Method 1631 for the analysis of mercury.

\*\* First Energy Beta Laboratory

18. The permittee shall annually perform chronic toxicity tests as described below, on the effluent from Outlet 006:

- a. Such testing will determine if an appropriate dilute effluent sample affects the survival or reproduction of the test species. Eight-hour flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing. An appropriate statistical test shall be used to determine whether differences in control and effluent data are significant.
  - i) The permittee shall conduct a three brood (6-8 days) Ceriodaphnia Dubia survival and reproduction toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confident level in survival or reproduction between Ceriodaphnia Dubia exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or less than 60% of surviving females in controls produced their third brood, that test shall be repeated.
  - ii) The permittee shall conduct a 7-day Pimephales Promelas fathead minnow larval survival and growth toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confidence level in survival or growth between fathead minnows exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or average dry weight of surviving controls was less than 0.25 mg/l that test shall be repeated.
- b. Results shall be reported in terms of chronic toxic units (TUc) and shall be submitted with the corresponding monthly Discharge Monitoring Report (DMR).

TUc= 100/NOEC or NOEL

Where NOEC (or NOEL) is No Observed Effect Concentration (or Level), which is expressed as percent (volume) effluent in dilution water.

For Example, if NOEC is 10%, TUc= 100/10=10

When the effluent demonstrates no toxicity at 100% effluent (no observed effect), the permittee may report zero TUc.

- c. The monitoring required, herein, shall be conducted in accordance with the sample collection, preservation, and analytical procedures specified in 40 CFR 136.
- g. The Director may impose further requirements should the chronic effluent toxicity testing results demonstrate noncompliance.

### Section C - Other Requirements

18. d. In addition to the monitoring data reporting requirements of 40 CFR 136, the exact age of the test organisms at the initiation of the test shall be reported. Values of less than or equal to 24 hours are acceptable for *Pimephales Promelas*, fathead minnow. The range of the *Ceriodaphnia Dubia* used must be reported as a range in hours. All *Ceriodaphnia Dubia* used in the test must be less than 24 hours of age at test commencement. The age difference between the youngest and oldest *Ceriodaphnia Dubia* used in the test must not exceed eight (8) hours.
- e. The chronic toxicity testing shall be performed on a 1/year basis. The first acute toxicity testing shall be carried out within three (3) months from the effective date of the permit for Outlet 006. There shall be a minimum of three (3) months between semi-annual sampling events.
- f. If chronic effluent toxicity testing shows noncompliance with the specified limitations prescribed in Section A, the permittee shall immediately resample and test the effluent. This shall be performed within 30 days of the initial demonstration of noncompliance with the whole effluent toxicity discharge limitations prescribed herein. Copies of the retesting results shall be provided to the Director immediately upon completion of the test.

If the second test shows compliance, chronic effluent toxicity testing shall continue in accordance with the requirements, as prescribed herein. However, if the second test shows noncompliance, the Director shall impose further requirements, as may be necessary, in order to obtain compliance with the chronic effluent toxicity discharge limitations.



## Section D - Groundwater Monitoring

### 1. Monitoring Well Reporting

- a. Permittee shall submit 1/6 months as required by Condition C.3.a monitoring well reports indicating in terms of concentration the values of the parameters listed in Sections A.MW101, MW103, A.MW104, A.MW105, and A.MW106. Metals concentrations shall be reported as dissolved metals except Total Chromium. Concentrations for constituents for which groundwater standards are referenced in Title 47, Series 12 of the West Virginia Legislative Rules dated March 18, 2011, shall be determined utilizing a method detection limit less than said Standards.
- b. Groundwater shall be sampled in accordance with the Groundwater Sampling Protocol referenced in Application No. WV0050776. Values for pH, Temperature, and Specific Conductance obtained during purging shall be retained as stated in Appendix A, Section III.6. One hundred twenty (120) days must transpire between sampling events.
- c. The permittee shall determine annually the flow rate and direction of groundwater flow.
- d. The permittee shall establish background groundwater quality for each of the monitored parameters indicated in Section A.MW101 of this permit by sampling well MW101. The minimum number of samples used to establish background groundwater quality must be consistent with the appropriate statistical procedures referenced in Section 4.11.a.4 of Title 33, Series 1, Solid Waste Management Rule. This background groundwater quality shall be used as the Groundwater Quality Standard (GWQS) for all down-gradient wells for this site for the term of the permit.
- e. The permittee shall determine whether there is a statistically significant increase over background levels for each parameter listed in Section A. of this permit less Specific Conductance, Total Suspended Solids and Temperature and pH. To determine such, the permittee shall compare groundwater quality in monitoring wells MW103, MW104, MW105, and MW106 with well MW101. Said statistical determinations shall be submitted concurrently with the Semi-Annual Monitoring Well Report. If the permittee determines that there is a statistically significant increase over background for any parameter listed in Section A. of this permit less Specific Conductance, Total Suspended Solids, Temperature, and pH, they shall indicate concurrent with the submission of the monitoring well reports which parameters have shown the statistically significant increase and comply with the requirements of Section 4.11.b.4 of Title 33 CSR1.
- f. The permittee must employ one of the following statistical procedures in combination with the appropriate sampling requirements to determine a statistically significant increase:
  - (1) A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;
  - (2) An analysis of variance based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;
  - (3) Tolerance or prediction interval procedure in which a tolerance interval for each constituent is established from the distribution of the background data, and the level of each constituent is established from the distribution of the background data, and the level of each constituent in each down gradient well is compared to the upper tolerance or prediction limit; or
  - (4) A control chart approach that gives control limits for each constituent.
- g. The Director may establish an alternative sampling procedure and statistical test for any of the constituents listed in the permit, as required to protect human health and the environment.
- h. If there is a statistically significant increase over background concentrations for any groundwater parameter listed in Section A, less pH, Total Suspended Solids, Specific Conductance, and Temperature, the permittee must do the following:

## Section D - Groundwater Monitoring

1. h.
    - (1) Within fourteen (14) days, place a notice in the operating record indicating which constituents have shown statistically significant changes from background levels and notify the Secretary that this notice was placed in the operating record.
    - (2) Within a thirty (30) day period of said finding, the permittee shall repeat the sampling of the groundwater in the appropriate monitoring well(s) in accordance with the requirements of this permit.
    - (3) If the repeat sampling indicates that there is not a statistically significant increase over the background for the respective pollutant, the permittee shall continue sampling as required by this permit.
    - (4) If the repeat sampling confirms that a statistically significant increase over background levels has occurred, the permittee must establish and implement a Phase II assessment monitoring program meeting the requirements of 33 CSR 1, Section 4.11.c within ninety (90) days of said confirmation.
    - (5) If the concentrations of all Phase II constituents are shown to be at or below background values, using the statistical procedures described above for two consecutive sampling events, the permittee must notify the Secretary of this finding and may return to Phase I detection monitoring.
    - (6) If the concentrations of any Phase II constituents are above background values, but all concentrations are below the groundwater protection standards found in Title 47, Series 12, Requirements Governing Groundwater Standards, using the statistical procedures described above, the permittee must continue assessment monitoring in accordance with Phase II requirements.
  - i. The permittee shall not cause a statistically significant increase over the limitations (groundwater standards) found in Section A for the monitoring wells listed in Section D.2.b. Should a limitation be exceeded, the permittee shall provide the following:
    - (1) Within ninety (90) days of a finding that any of the constituents listed in the permit have been detected at a statistically significant level exceeding the groundwater protection standards, the permittee must initiate an assessment of corrective measures in accordance with 33 CSR 1, Section 4.11.e.
    - (2) Based on the results of the corrective measures assessment conducted pursuant to 33 CSR 1, Section 4.11.e, the permittee must select a remedy that, at a minimum, meets the standards listed in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. The permittee must notify the Secretary, within fourteen (14) days of selecting a remedy, by sending him or her a report describing the selected remedy, stating that it has been placed in the operating record, and describing how it meets the standards in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. Further, the permittee shall specify as part of the selected remedy a schedule(s) for initiating and completing remedial activities in accordance with 33 CSR 1, Section 4.11.f.4.
    - (3) The Secretary may determine that remediation of a Phase II constituent is not necessary if the permittee can successfully demonstrate to the Secretary conditions found in 33 CSR 1, Section 4.11.f.5. However, any determination by the Secretary pursuant to 33 CSR 1, Section 4.11.f.5 cannot affect the authority of the state to require the permittee to undertake source control measures or other measures that may be necessary to eliminate or minimize further releases to the groundwater, to prevent exposure to the groundwater, or to remediate the groundwater to concentrations that are technically practicable and significantly reduce threats to human health or the environment.
    - (4) In accordance with 33 CSR 1, Section 4.11.g, the permittee shall implement the corrective action program based on the schedule required by 33 CSR 1, Sections 4.11.f.4 and 4.11.g.
2. Based on a review of the historic Groundwater Monitoring Program at the site, the following monitoring wells / parameters shall be monitored under the following Phase per 33 CSR 1, Section 4.11:
- a. **DETECTION PROGRAM - PHASE I**  
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Per 33 CSR 1, Section 4.11.b.4 the permittee shall comply with Section D.1.i upon an exceedence of the respective background in each respective monitoring well. Upon moving a Phase I parameter to Phase II parameter the permittee shall submit a major permit modification to revise Section D of the permit.

**Section D - Groundwater Monitoring**

2. a. The following wells shall be evaluated under a detection monitoring program via interwell statistics for all parameters in Section A of the permit:

- (1) Down Gradient Wells: MW103, MW104, MW105, and MW106  
 Up Gradient Wells: MW101

b. ASSESSMENT MONITORING PROGRAM - PHASE II

Monitoring Well	Parameter	Background (mg/L)	MCL or PAL (mg/L)
-----			
MW103, MW104, MW105, MW106			
	Barium	0.084	2.0
	Boron***	13.1	N/A
	Nickel	0.0043	0.39*
	Solids (Total Dissolved)	809.654	2387**
	Sulfate	219.576	1170**
MW103, MW104, MW106			
	Beryllium (Dissolved)	0.000045	0.004
	Manganese***	2.29	N/A
MW103, MW105, MW106			
	Chromium	0.000261	0.05
MW103, MW106			
	Iron	5.05	14*
MW106			
	Arsenic	0.0292	0.01

\* A deviation and human health based preventative action limit (PAL) has been granted for iron and nickel at the site per 47 CSR 57, Section 5 and groundwater standard established per 33 CSR 1, Section 4.11.c.9. The standard is based on the minimum of WV DeMinimus Standards and EPA Region III Default Risk Based Concentrations, or an agency approved site-specific value such as a human health based secondary MCL or other approved risk based value.

\*\* A deviation and preventative action limit (PAL) has been granted for TDS and sulfate at the site per 47 CSR 57, Section 5. An appropriate human health based criteria could not be identified for these parameters therefore continued monitoring under the Phase II program is required to ensure additional contamination remains at pre-2022 observed levels. If the permittee determines that further release of these contaminants is occurring either because multiple subsequent exceedences of the PAL are observed with a statistical increasing trend, then the permittee must make every reasonable effort to identify, remove or mitigate the source of such contamination and strive where practical to reduce the level of contamination over time to support drinking water use of downgradient groundwater.

\*\*\* The permittee may choose to compare the result of a Lower Confidence Limit (LCL) calculation per EPA's "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities" dated March 2009 for boron and manganese for compliance purposes. The individual groundwater result shall be reported on the eDMR. If the individual result is above the groundwater standard in Section A of the permit but the LCL is below the groundwater standard in Section A of the permit. The permittee may attach justification to the eDMR, or provide notification separately, to remain in Phase II monitoring.

The permittee may request deletion of monitoring parameters if it can be shown via contained waste and/or leachate analysis that the constituents are not present in or derived from the waste contained in the solid waste management unit.

## Section D - Groundwater Monitoring

### 2. c. ASSESSMENT OF CORRECTIVE ACTION

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The following items, investigated in the Groundwater Assessment Report dated September 2021, concerning Assessment of Corrective Action require additional investigation at the site and shall be submitted per Section B of the permit:

- (1) The permittee shall identify all downgradient receptors of groundwater from areas impacted by arsenic at MW-106. Based on the Groundwater Assessment Report, groundwater flow direction is west / southwest and downward into mine voids. Identification of receptors of groundwater shall be completed in these directions and additional downgradient areas if future data or evaluations support justification for additional areas.
- (2) The permittee shall complete delineation of arsenic impacts to groundwater from arsenic at MW-106. The Groundwater Assessment Report indicated that groundwater flow is likely west / southwest in the areas of MW-106 and MW-107B. It does not appear that delineation wells were installed in the southwesterly downgradient direction of MW-106. Since there are potentially downgradient receptors in this direction (i.e. residential homes and Parker Run), delineation in this direction is necessary prior to remedy selection. In addition, the limited potentiometric data also indicates that groundwater potentially flows in the northern / northeasterly direction. The permittee shall assess groundwater flow in this direction or provide justification why it is unlikely that arsenic could migrate to these areas.
- (3) The permittee shall complete Assessment of Corrective Action and discuss the results in a public meeting with interested and affected parties per 33 CSR 1, Section 4.11.e.4. A remedy shall then be selected per 4.11.f. Remedies shall be incorporated into the permit via a major modification application.

### d. CORRECTIVE ACTION PROGRAM / REMEDY

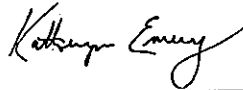
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[Reserved]

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0050776; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0050776; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.



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Katheryn Emery, P.E., Director

# Appendix A

## I. MANAGEMENT CONDITIONS:

### 1. Duty to Comply

- a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.
- b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

### 2. 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 apply for a new permit at least 180 days prior to expiration of the permit.

### 3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

### 4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

### 5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

### 6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10, Section 4.6 of the West Virginia Legislative Rules.

### 7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

### 8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

### 9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

### 10. Inspection and Entry

The permittee shall allow the Director, 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 in which an effluent source or activity is located, 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; and
- d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

### 11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 of the Code of West Virginia.

### 12. Water Quality

This discharge shall not cause or materially contribute to: distinctly visible floating or settleable solids, suspended solids, scum, foam or oily slicks; deposits or sludge bank on the bottom; odors in the vicinity of the waters; taste or odor that would adversely affect the designated uses of the affected waters; distinctly visible color which may impair or interfere with the designated uses of the affected waters; and shall not cause a fish or mussel kill. The limitations and conditions in this permit for the discharges identified in this permit are limitations and conditions that are necessary to meet applicable West Virginia water quality standards, Requirements Governing Water Quality Standards 47 CSR 2.

### 13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

### 14. Liabilities

- a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.
- b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- d) Nothing in 1.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

## II. OPERATION AND MAINTENANCE:

### 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 also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

### 2. Need to Halt or Reduce Activity Not a Defense

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 the permit.

### 3. Bypass

- a) Definitions
  - (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
  - (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.
- c)
  - (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
  - (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.
- d) Prohibition of bypass
  - (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless:
    - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
    - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
    - (C) The permittee submitted notices as required under II.3.c) of this permit.
  - (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

### 4. Upset

- a) Definition. "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. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
  - (2) The permitted facility was at the time being properly operated;
  - (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
  - (4) The permittee complied with any remedial measures required under I.3. of this permit.
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

### 5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

## III. MONITORING AND REPORTING

## 1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

## 2. Reporting

- a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.
- b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.
- c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).
- d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g., 3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

## 3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

## 4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

- a) The date, exact place, and time of sampling or measurement;
- b) The date(s) analyses were performed;
- c) The individual(s) who performed the sampling or measurement;
- d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;
- e) The analytical techniques or methods used, and
- f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

## 5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

## 6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original 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 the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

## 7. Definitions

- a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.
- b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- c) "Maximum daily discharge limitation" means the highest allowable daily discharge.
- d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.
- e) "Grab Sample" is an individual sample collected in less than 15 minutes.
- f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.
- g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.
- h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.
- i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.
- j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.
- k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

## IV. OTHER REPORTING



### 1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11. Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

### 2. Immediate Reporting

- a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- b) The following shall also be reported immediately:
  - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
  - (2) Any upset which exceeds any effluent limitation in the permit; and
  - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit shall be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.
- c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.
- d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

### 3. Reporting Requirements

- a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:
  - (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or
  - (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.
- b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:
  - (1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) One hundred micrograms per liter (100 ug/l);
    - (B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
    - (C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series 10, Title 47.
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;
  - (2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) Five hundred micrograms per liter (500 ug/l);
    - (B) One milligram per liter (1 mg/l) for antimony;
    - (C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.
  - (3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.
  - (4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

### 4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 006 \_\_\_\_\_  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Reported	Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
50050 (ML-1) RF-B Flow, in Conduit or thru plant Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter Estimated
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab
00400 (ML-1) RF-A pH Year Round	Reported											
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.	N/A	S.U.		1/month Grab
01114 (ML-1) RF-B Lead, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab
01094 (ML-1) RF-B Zinc, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab
01113 (ML-1) RF-A Cadmium, Total Recoverable Year Round Interim: 3/1/2024 to 2/28/2028	Reported											
	Permit Limits	N/A	N/A			N/A	0.0008 Avg. Monthly	0.002 Max. Daily	N/A	mg/l		1/month Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 006 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01113 (ML-1) RF-A Cadmium, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0.0002 Avg. Monthly	0.0004 Max. Daily	N/A	mg/l		1/month	Grab	
01032 (ML-1) RF-B Chromium, Hexavalent Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
71900 (ML-1) RF-A Mercury, Total (as Hg) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0.0093 Avg. Monthly	0.02 Max. Daily	N/A	ug/l		1/month	Grab	
01074 (ML-1) RF-B Nickel, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
00900 (ML-1) RF-B Hardness, Total (as CaCO3) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
01104 (ML-1) RF-A Aluminum, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0.23 Avg. Monthly	0.8 Max. Daily	N/A	mg/l		1/month	Grab	

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer   Title of Officer	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 a fine and imprisonment for knowing violations.	Date Completed
		Signature of Principal Executive Officer or Authorized Agent

83

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PC

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: RIVESVILLE; Marion County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0050776 006

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
00980 (ML-1) RF-A Iron, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0.89 Avg. Monthly	2.7 Max. Daily	N/A	mg/l		1/month	Grab	
61426 (ML-1) RF-D Chronic Tox-Ceriodaphnia Dubia Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp	
61428 (ML-1) RF-D Chronic Toxicity - Pimephales Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp	
00978 (ML-1) RF-A Arsenic, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0.01 Avg. Monthly	0.015 Max. Daily	N/A	mg/l		1/month	Grab	
01147 (ML-1) RF-B Selenium, Total (as Se) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
01007 (ML-1) RF-B Barium, Total (as Ba) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 006  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
70295 (ML-1) RF-B Solids, Total Dissolved (TDS) Year Round	Reported							N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported							N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01022 (ML-1) RF-A Boron, Total (as B) Year Round Interim: 3/1/2024 to 2/28/2026	Reported							N/A	mg/l		1/month	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01022 (ML-1) RF-A Boron, Total (as B) Year Round	Reported							N/A	mg/l		1/month	Grab
	Permit Limits	N/A	N/A		N/A	3.8 Avg. Monthly	7.5 Max. Daily					
01062 (ML-1) RF-B Molybdenum, Total (as Mo) Year Round	Reported							N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00722 (ML-1) RF-B Cyanide, Free Year Round	Reported							N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer _____  Title of Officer _____	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 a fine and imprisonment for knowing violations.	Date Completed: _____  Signature of Principal Executive Officer or Authorized Agent _____
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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 006 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
81020 (ML-1) RF-B Sulfate Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab
00927 (ML-1) RF-B Magnesium, Tot (as Mg) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab
01059 (ML-1) RF-B Thallium, Total (as Tl) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab
00998 (ML-1) RF-A Beryllium, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	0.004 Avg. Monthly	0.008 Max. Daily	N/A	mg/l		1/month Grab
01152 (ML-1) RF-B Total Titanium (as Ti) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab
71870 (ML-1) RF-B Bromide Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM1  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00530 (ML-1) RF-C Total Suspended Solids Year Round	Reported											
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-1) RF-C pH Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
01002 (ML-1) RF-C Arsenic, Total (as As) Year Round	Reported											
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01032 (ML-1) RF-C Chromium, Hexavalent Year Round	Reported											
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71900 (ML-1) RF-C Mercury, Total (as Hg) Year Round	Reported											
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01055 (ML-1) RF-C Manganese, Total (as Mn) Year Round	Reported											
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer _____  Title of Officer _____	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 a fine and imprisonment for knowing violations.	Date Completed: _____  Signature of Principal Executive Officer or Authorized Agent _____
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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM1 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units				Measurement Frequency	Sample Type		
				Units	N.E.				CEL*			Units	N.E.
00940 (ML-1) RF-C Chloride (as Cl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01027 (ML-1) RF-C Cadmium, Total (as Cd) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01042 (ML-1) RF-C Copper, Total (as Cu) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01105 (ML-1) RF-C Aluminum, Total (as Al) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01051 (ML-1) RF-C Lead, Total (as Pb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01034 (ML-1) RF-C Chromium, Total (as Cr) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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<b>Name of Principal Executive Officer</b>  	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 a fine and imprisonment for knowing violations.	<b>Date Completed</b> <input type="text"/>
<b>Title of Officer</b>  		<b>Signature of Principal Executive Officer or Authorized Agent</b>  



STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM1  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units				Measurement Frequency	Sample Type	
				Units	N.E.			CEL*	Units			N.E.
01077 (ML-1) RF-C Silver, Total (as Ag) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01012 (ML-1) RF-C Beryllium, Total (as Be) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01147 (ML-1) RF-C Selenium, Total (as Se) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01007 (ML-1) RF-C Barium, Total (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
70295 (ML-1) RF-C Solids, Total Dissolved (TDS) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01097 (ML-1) RF-C Antimony, Total (as Sb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM1  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01022 (ML-1) RF-C Boron, Total (as B) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01062 (ML-1) RF-C Molybdenum, Total (as Mo) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00095 (ML-1) RF-C Specific Conductance Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months Grab
01092 (ML-1) RF-C Zinc, Total (as Zn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00916 (ML-1) RF-C Calcium, Total (as Ca) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00680 (ML-1) RF-C Total Organic Carbon Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ  
 LOCATION OF FACILITY: RIVESVILLE, Marion County  
 PERMIT NO.: WV0050776 LM1  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01045 (ML-1) RF-C Iron, Total (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01067 (ML-1) RF-C Nickel, Total (as Ni) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01087 (ML-1) RF-C Vanadium, Total (as V) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
81020 (ML-1) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00927 (ML-1) RF-C Magnesium, Tot (as Mg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01059 (ML-1) RF-C Thallium, Total (as Tl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Name of Principal Executive Officer  Title of Officer	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 a fine and imprisonment for knowing violations.	Date Completed _____  Signature of Principal Executive Officer or Authorized Agent _____
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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 LM2  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
00530 (ML-1) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-1) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
01002 (ML-1) RF-C Arsenic, Total (as As) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01032 (ML-1) RF-C Chromium, Hexavalent Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71900 (ML-1) RF-C Mercury, Total (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01055 (ML-1) RF-C Manganese, Total (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM2 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity				Other Units				Measurement Frequency	Sample Type		
				Units	N.E.				CEL*			Units	N.E.
00940 (ML-1) RF-C Chloride (as Cl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01027 (ML-1) RF-C Cadmium, Total (as Cd) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01042 (ML-1) RF-C Copper, Total (as Cu) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01105 (ML-1) RF-C Aluminum, Total (as Al) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01051 (ML-1) RF-C Lead, Total (as Pb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01034 (ML-1) RF-C Chromium, Total (as Cr) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM2  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Reported	Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01077 (ML-1) RF-C Silver, Total (as Ag) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01012 (ML-1) RF-C Beryllium, Total (as Be) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01147 (ML-1) RF-C Selenium, Total (as Se) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01007 (ML-1) RF-C Barium, Total (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
70295 (ML-1) RF-C Solids, Total Dissolved (TDS) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01097 (ML-1) RF-C Antimony, Total (as Sb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM2  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01022 (ML-1) RF-C Boron, Total (as B) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01062 (ML-1) RF-C Molybdenum, Total (as Mo) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00095 (ML-1) RF-C Specific Conductance Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab	
01092 (ML-1) RF-C Zinc, Total (as Zn) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00916 (ML-1) RF-C Calcium, Total (as Ca) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00680 (ML-1) RF-C Total Organic Carbon Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM2 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity				Other Units				Measurement Frequency	Sample Type	
				Units	N.E.			CEL*	Units			N.E.
01045 (ML-1) RF-C Iron, Total (as Fe) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01067 (ML-1) RF-C Nickel, Total (as Ni) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01087 (ML-1) RF-C Vanadium, Total (as V) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
61020 (ML-1) RF-C Sulfate Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00927 (ML-1) RF-C Magnesium, Tot (as Mg) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01059 (ML-1) RF-C Thallium, Total (as Tl) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent



STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: RIVESVILLE; Marion County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0050776 MW101

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00400 (ML-O) RF-C pH Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months Grab
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer: _____ Title of Officer: _____	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 a fine and imprisonment for knowing violations.	Date Completed: _____ Signature of Principal Executive Officer or Authorized Agent: _____
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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW101 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW101 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Quantity	Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
81020 (ML-O) RF-C Sulfate Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW101  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

100

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed	<input type="text"/>
Title of Officer		Signature of Principal Executive Officer or Authorized Agent	<input type="text"/>

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW103 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00400 (ML-O) RF-C pH Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months Grab
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	0.05 Max. Daily	N/A	mg/l		1/6 months Grab
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	2387 Max. Daily	N/A	mg/l		1/6 months Grab
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW103 \_\_\_\_\_  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	2	mg/l		1/6 months	Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	mg/l		1/6 months	Grab
01048 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	14	mg/l		1/6 months	Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	2.29	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	DEG.F		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW103  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
81020 (ML-O) RF-C Sulfate Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	1170 Max. Daily	N/A	mg/l		1/6 months	Grab	
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab	
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	13.1 Max. Daily	N/A	mg/l		1/6 months	Grab	

103

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW103  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	Rpt Only Max. Daily					
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	0.39 Max. Daily					
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	Rpt Only Max. Daily					
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported							N/A	ug/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	4 Max. Daily					
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	Rpt Only Max. Daily					

104

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent



STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW104  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	Rpt Only Max. Daily					
00400 (ML-O) RF-C pH Year Round	Reported							N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A		Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	Rpt Only Max. Daily					
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	2387 Max. Daily					
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	Rpt Only Max. Daily					
00095 (ML-O) RF-C Specific Conductance Year Round	Reported							N/A	UMHO/CM		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	N/A	Rpt Only Max. Daily					

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW104  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	2	mg/l		1/6 months	Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	mg/l		1/6 months	Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	2.29	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	DEG.F		1/6 months	Grab

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW104 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
81020 (ML-O) RF-C Sulfate Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	1170 Max. Daily	N/A	mg/l		1/6 months	Grab	
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab	
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	13.1 Max. Daily	N/A	mg/l		1/6 months	Grab	

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW104  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity		Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.39 Max. Daily	N/A	mg/l		1/6 months	Grab
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.004 Max. Daily	N/A	mg/l		1/6 months	Grab
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

108

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW105  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Quantity	Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-O) RF-C pH Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	S.U.		1/6 months	Grab
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported										
	Permit Limits	N/A	N/A			0.05 Max. Daily	N/A	mg/l		1/6 months	Grab
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported										
	Permit Limits	N/A	N/A			2387 Max. Daily	N/A	mg/l		1/6 months	Grab
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab

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Name of Principal Executive Officer  	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 a fine and imprisonment for knowing violations.	Date Completed
		Signature of Principal Executive Officer or Authorized Agent
Title of Officer  		

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW105  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Quantity	Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	N/A	2 Max Daily	N/A	mg/l		1/6 months	Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01058 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent	

110

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW105  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Quantity	Quantity		Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
			Units	N.E.							
81020 (ML-O) RF-C Sulfate Year Round	Reported										
	Permit Limits	N/A	N/A			N/A	N/A	1170 Max. Daily	mg/l		1/6 months Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported										
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	mg/l		1/6 months Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported										
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	mg/l		1/6 months Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported										
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	mg/l		1/6 months Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported										
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	ug/l		1/6 months Grab
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported										
	Permit Limits	N/A	N/A			N/A	N/A	13.1 Max. Daily	mg/l		1/6 months Grab

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		Signature of Principal Executive Officer or Authorized Agent
Title of Officer   		

111

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW105  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	0.39 Max. Daily	N/A	mg/l		1/6 months	Grab	
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent



STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW106  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-O) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.05 Max. Daily	N/A	mg/l		1/6 months	Grab
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	2387 Max. Daily	N/A	mg/l		1/6 months	Grab
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent	

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW106  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	14 Max. Daily	N/A	mg/l		1/6 months	Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	2.29 Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW106  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	1170 Max. Daily	N/A	mg/l		1/6 months	Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round Interim: 3/1/2024 to 4/30/2026	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.0292 Max. Daily	N/A	mg/l		1/6 months	Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab

115

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Name of Principal Executive Officer:  	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 a fine and imprisonment for knowing violations.	Date Completed: _____
		Signature of Principal Executive Officer or Authorized Agent  
Title of Officer:  		

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW106  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units				Measurement Frequency	Sample Type	
				Units	N.E.			CEL*	Units			N.E.
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	13.1 Max Daily	N/A	mg/l		1/6 months Grab
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max Daily	N/A	mg/l		1/6 months Grab
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	0.39 Max Daily	N/A	mg/l		1/6 months Grab
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max Daily	N/A	mg/l		1/6 months Grab
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	0.004 Max Daily	N/A	mg/l		1/6 months Grab
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max Daily	N/A	mg/l		1/6 months Grab

116

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		Signature of Principal Executive Officer or Authorized Agent
Title of Officer  		

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW107A  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00400 (ML-O) RF-C pH Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	S.U.		1/6 months	Grab	
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00095 (ML-O) RF-C Specific Conductance Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab	

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent	

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW107A  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab	
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	1.3 Max. Daily	N/A	mg/l		1/6 months	Grab	
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	0.015 Max. Daily	N/A	mg/l		1/6 months	Grab	
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00011 (ML-O) RF-C Temperature, F Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab	

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed	
Title of Officer		Signature of Principal Executive Officer or Authorized Agent	

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW107A  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
81020 (ML-O) RF-C Sulfate Year Round	Reported											
	Permit Limits	N/A	N/A				N/A	mg/l			1/6 months	Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported											
	Permit Limits	N/A	N/A				N/A	mg/l			1/6 months	Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported											
	Permit Limits	N/A	N/A				N/A	mg/l			1/6 months	Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported											
	Permit Limits	N/A	N/A				N/A	mg/l			1/6 months	Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported											
	Permit Limits	N/A	N/A				N/A	mg/l			1/6 months	Grab
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported											
	Permit Limits	N/A	N/A				N/A	mg/l			1/6 months	Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW107A  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Quantity	Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported										
	Permit Limits	N/A	N/A			0.004 Max. Daily	N/A	mg/l		1/6 months	Grab
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported										
	Permit Limits	N/A	N/A			Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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		Signature of Principal Executive Officer or Authorized Agent
Title of Officer  		



STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW107B  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00400 (ML-O) RF-C pH Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	S.U.		1/6 months	Grab	
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00095 (ML-O) RF-C Specific Conductance Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab	

121

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW107B  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab	
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	1.3 Max. Daily	N/A	mg/l		1/6 months	Grab	
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	0.015 Max. Daily	N/A	mg/l		1/6 months	Grab	
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00011 (ML-O) RF-C Temperature, F Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab	

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW107B  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
81020 (ML-O) RF-C Sulfate <sup>4-</sup> Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	0.01 Max. Daily	N/A	mg/l		1/6 months	Grab	
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	0.005 Max. Daily	N/A	mg/l		1/6 months	Grab	
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	0.002 Max. Daily	N/A	mg/l		1/6 months	Grab	
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW107B  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.004 Max. Daily	N/A	mg/l		1/6 months	Grab
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

124

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed	
Title of Officer		Signature of Principal Executive Officer or Authorized Agent	

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW108B  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00400 (ML-O) RF-C pH Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	S.U.		1/6 months	Grab	
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00095 (ML-O) RF-C Specific Conductance Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab	

125

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Name of Principal Executive Officer  	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 a fine and imprisonment for knowing violations.	Date Completed
		Signature of Principal Executive Officer or Authorized Agent
Title of Officer  		

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW108B  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	2	mg/l		1/6 months	Grab
								Max. Daily				
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	1.3	mg/l		1/6 months	Grab
								Max. Daily				
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	mg/l		1/6 months	Grab
								Max. Daily				
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	0.015	mg/l		1/6 months	Grab
								Max. Daily				
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	mg/l		1/6 months	Grab
								Max. Daily				
00011 (ML-O) RF-C Temperature, F Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only	DEG.F		1/6 months	Grab
								Max. Daily				

126

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW108B  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.01 Max. Daily	N/A	mg/l		1/6 months	Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.005 Max. Daily	N/A	mg/l		1/6 months	Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.002 Max. Daily	N/A	mg/l		1/6 months	Grab
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

127

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW108B  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	0.004 Max. Daily	N/A	mg/l		1/6 months	Grab
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

128

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent



**EMERGENCY RESPONSE SPILL ALERT SYSTEM  
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**REQUIREMENTS:**

Title 47, Series 11, Section 2 of the West Virginia Legislative Rules, Environmental Protection, Water Resources - Waste Management, Effective July 1, 1994.

**RESPONSIBILITY FOR REPORTING:**

Each and every person who may cause or be responsible for any spill or accidental discharge of pollutants into the waters of the State shall give immediate notification to the Division of Water and Waste Management's Emergency Notification Number, 1-800-642-3074. Such notification shall set forth insofar as possible and as soon thereafter as practical the time and place of such spill or discharge, type or types and quantity or quantities of the material or materials therein, action or actions taken to stop such spill or discharge and to minimize the polluting effect thereof, the measure or measures taken or to be taken in order to prevent a recurrence of any such spill or discharge and such additional information as may be requested by the Division of Water and Waste Management. This also applies to spills to the waters of the State resulting from accidents to common carriers by highway, rail and water.

It shall be the responsibility of each industrial establishment or other entity discharging directly to a stream to have available the following information pertaining to those substances that are employed or handled in its operation in sufficiently large amounts as to constitute a hazard in case of an accidental spill or discharge into a public stream:

- (1) Potential toxicity in water to man, animals and aquatic life;
- (2) Details on analytical procedures for the quantitative estimation of such substances in water and
- (3) Suggestions on safeguards or other precautionary measures to nullify the toxic effects of a substance once it has gotten into a stream.

Failure to furnish such information as required by Section 14, Article 11, Chapter 22, Code of West Virginia may be punishable under Section 24, Article 11, Chapter 22, and/or Section 22, Article 11, Chapter 22, Code of West Virginia.

It shall be the responsibility of any person who causes or contributes in any way to the spill or accidental discharge of any pollutant or pollutants into State waters to immediately take any and all measures necessary to contain such spill or discharge. It shall further be the responsibility of such person to take any and all measures necessary to clean-up, remove and otherwise render such spill or discharge harmless to the waters of the State.

When the Director determines it necessary for the effective containment and abatement of spills and accidental discharges, the Director may require the person or persons responsible for such spill or discharge to monitor affected waters in a manner prescribed by the Director until the possibility of any adverse effect on the waters of the State no longer exists.

**VOLUNTARY REPORTING BY LAW OFFICERS, U. S. COAST GUARD, LOCK MASTERS AND OTHERS:**

In cases involving river and highway accidents where the responsible party may or may not be available to report the incident, law officers, U. S. Coast Guard, Lock Masters and other interested person(s) should make the report.

**WHO TO CONTACT:**

Notify the following number: **1-800-642-3074**

**INFORMATION NEEDED:**

- |  |                                       |
|--|---------------------------------------|
| - Source of spill or discharge               | - Personnel at the scene              |
| - Location of incident                       | - Actions initiated                   |
| - Time of incident                           | - Shipper/Manufacturer identification |
| - Material spilled or discharged             | - Railcar/Truck identification number |
| - Amount spilled or discharged               | - Container type                      |
| - Toxicity of material spilled or discharged |                                       |

## **RIGHT OF APPEAL**

**Notice is hereby given of your right to appeal the terms and conditions of this permit which you are aggrieved by to the Environmental Quality Board by filing a NOTICE OF APPEAL on the form prescribed by such Board for this purpose, with the Board, in accordance with the provisions of Section 21, Article 11, Chapter 22 of the Code of West Virginia within thirty (30) days after the date of receipt of the above permit.**

**NOTICE TO PERMITTEES**

The 1999 regular session of the West Virginia legislature revised the Water Pollution Control Act, Chapter 22, Article 11, Section 10 of the Code of West Virginia relating to fees associated with permits. This section of the Code requires all holders of a State water pollution control permit or a national pollutant discharge elimination system permit to be assessed an annual permit fee, based upon rules promulgated by the Secretary of the Department of Environmental Protection. The Secretary has promulgated a final rule in accordance with the code revision to this effect and these rules were effective May 4, 2000. The rules establish an annual permit fee based upon the relative potential to degrade the waters of the State which, in most instances, relate to volume of discharge. However, for sewage facilities, the annual permit fee is based upon the number of customers served by the facility. You may contact the Secretary of State's Office, State Capitol Building, Charleston, WV 25305, to obtain a copy of the rules. The reference is Title 47, Legislative Rules, Department of Environmental Protection, Division of Water Resources, Series 26 Water Pollution Control Permit Fee Schedules.

Based upon the volume of discharge for which your facility is currently permitted, the number of customers served by your facility or for the category you fall within, pursuant to Section 7 of Title 47, Series 26, your annual permit fee is **\$5000.00**. This fee is due no later than the anniversary date of permit issuance in each year of the term of the permit or in the case of coverage under a general permit, the fee is due no later than the anniversary date of your coverage under the general permit. **You will be invoiced by this agency at the appropriate time for the fee.** Failure to submit the annual fee within ninety(90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

RECEIVED

AUG 31 2023

DWWM WASTE



August 30, 2023

**VIA EMAIL AND HAND DELIVERY**

Director, Division of Water and Waste Management  
Attn: Hiral Kukkillaya - Permitting Section  
WV Department of Environmental Protection  
601 57th Street  
Charleston, WV 25304-2345

**Closed Rivesville CCR Landfill**  
**Rivesville, Marion County**  
**Draft NPDES/Solid Waste Permit WV0050776**  
**Comments of Monongahela Power Company**

Dear Ms. Kukkillaya:

Monongahela Power Company ("MonPower"), a FirstEnergy company, hereby submits the following comments to the draft WV/NPDES Permit No. WV0050776 (the "Draft Permit") for the Rivesville Closed CCR Landfill ("Landfill" or the "Facility"), located in Rivesville, Marion County, West Virginia. The Draft Permit was issued for public comment by the West Virginia Department of Environmental Protection ("WVDEP" or the "Department") on May 31, 2023. By correspondence dated July 19, 2023, WVDEP granted MonPower an extension of the deadline to submit comments on the Draft Permit until August 30, 2023.

MonPower appreciates the opportunity to offer these timely submitted written comments on the Draft Permit. MonPower requests that each of these comments and the issues raised therein be corrected and clarified in the final permit.

**1. The receiving stream for Outlet 006 is the Monongahela River.**

For many years, the Department accurately recognized the Monongahela River as the receiving stream for Outlet 006. It was not until WVDEP renewed the permit in February 2010 that it identified "UNT 122.1," purportedly an unnamed tributary that enters the Monongahela River on the left-descending bank at river mile 122.1, and designated it as the receiving stream for Outlet 006. In response to the WVDEP's identification of UNT 122.1 as the receiving stream for the Outlet 006 discharge, MonPower applied to have UNT 122.1 reclassified to remove the drinking water use classification in October 2010. In its reclassification application, MonPower demonstrated that UNT 122.1 "is an intermittent high-gradient tributary, which does not support consistent flow, but for the landfill discharge."<sup>1</sup> Although MonPower's reclassification application was never acted upon by the Department, the demonstrations contained therein show that UNT 122.1 is not a regulated "water" based on a recent U.S. Supreme Court decision and cannot be treated as the receiving "stream" for the discharge at Outlet 006.

<sup>1</sup> *Application for Reclassification of the Drinking Water Use in an Unnamed Tributary of the Monongahela River*, Potesta & Associates, Inc. (prepared for MonPower), Project No. 01010-09-0526 (Oct. 6, 2010), p. 4.

On May 25, 2023, the U.S. Supreme Court issued a landmark decision in *Sackett v. Environmental Protection Agency*, 143 S. Ct. 1322, resolving a decades-long dispute about the scope of federal jurisdiction over “waters of the United States.” Rejecting the “significant nexus” test for a bright-line jurisdictional test, the Supreme Court held that the term “waters” as used in this federal Clean Water Act (“CWA”) provision “encompasses ‘only those relatively permanent, standing or continuously flowing bodies of water ‘forming geographic[al] features’ that are described in ordinary parlance as ‘streams, oceans, rivers, and lakes.’” *Sackett*, 143 S. Ct. at 1336 (quoting *Rapanos v. United States*, 547 U.S. 715, 739 (2006)). The U.S. Environmental Protection Agency has developed a new final definition of “waters of the United States” following the Supreme Court’s decision in *Sackett*. On August 29, 2023, EPA released a pre-publication version of its new rule re-defining “waters of the United States.”<sup>2</sup> Although the new rule will not become effective until it is published in the *Federal Register*, as expected, it eliminates the “significant nexus” standard from the “tributaries” provision, limiting the scope of this provision to tributaries “that are relatively permanent, standing or continuously flowing bodies of water.”

This recent U.S. Supreme Court decision not only defines the scope of federal jurisdiction, but it also delineates the scope of WVDEP’s jurisdiction. That is because under West Virginia’s ‘No More Stringent Than’ statute, environmental regulations adopted by the WVDEP after 1994 cannot be more stringent than their federal counterparts unless the WVDEP identifies specific reasons for enacting a more stringent provision. *W.Va. Code* § 22-1-3a. WVDEP’s NPDES Regulations (at W.Va. CSR § 47-10-1, et seq.) have been revised and reissued many times since 1994, and the WVDEP has never attempted to make any demonstration that the scope of covered surface waters should exceed that of the federal CWA. As a result, WVDEP must interpret and construe its own NPDES permit program regulations to be “no more stringent than” the scope of federal jurisdiction under the CWA.<sup>3</sup>

UNT 122.1 does not meet the definition of a federally regulated water, and therefore, WVDEP cannot consider it as the receiving stream for the discharge at Outlet 006. UNT 122.1 has only occasional or intermittent flow. The discharge at Outlet 006 comprises virtually all of the flow into UNT 122.1, and the Outlet 006 discharge is seasonally intermittent. Simply put, UNT 122.1 would not meet the U.S. Supreme Court’s recently clarified definition of a federally regulated water. Therefore, under W.Va. Code § 22-1-3a, WVDEP cannot construe its NPDES permit program regulations to consider UNT 122.1 as the receiving stream for the discharge at Outlet 006. Considering this recent change in the law, WVDEP must revise the Draft Permit to conclude, as it had previously, that the Monongahela River is the receiving stream for the Outlet 006 discharge.

**2. With the Monongahela River as the receiving stream, reasonable potential exists for only two parameters.**

MonPower has conducted a “reasonable potential” assessment that appropriately considers the Monongahela River as the receiving stream. This reasonable potential assessment was conducted using WVDEP procedures and the WVDEP default mixing considerations of three dilutions for acute aquatic life criteria and five

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<sup>2</sup> The pre-publication version of this new rule is available at [https://insideepa.com/sites/insideepa.com/files/documents/2023/aup/epa2023\\_1586a.pdf](https://insideepa.com/sites/insideepa.com/files/documents/2023/aup/epa2023_1586a.pdf) (last visited Aug. 29, 2023).

<sup>3</sup> Although the WVDEP NPDES regulations include exemptions of certain discharges from NPDES permitting (at W.Va. CSR § 47-10-3.2), those provisions have no bearing on the question of whether a particular surface water falls within the scope of the WVDEP’s authority to require a permit in the first instance. Unless the surface water in question falls within the scope of “waters of the United States” under the federal CWA, there can be no “discharge of a pollutant” that requires NPDES permitting. *See* 33 U.S.C. §§ 1362 (7), (12).

dilutions for chronic aquatic life and human health criteria. Data published by WVDEP for the Monongahela River at River Mile 99.4 were used to establish background concentrations. A summary of the reasonable potential assessment and the calculated water quality-based effluent limits ("WQBELs") are provided in the table set forth below. The associated reasonable potential and WQBEL calculation documents are attached along with the referenced background data (see Attachment A). For aluminum, a dissolved metal translator ("DMT") was calculated from the referenced WVDEP Monongahela River data and was used in the reasonable potential assessment WQBEL calculations. (The maximum observed dissolved fraction was used as the DMT).

Pollutant	Reasonable Potential	Background Concentration, mg/L	Water Quality Based Effluent Limits, mg/L		Notes
			Monthly Average	Daily Maximum	
Aluminum	Yes	0.5	1.04	3.59	Based on DMT of 0.49
Antimony	No	NA	No limit	No limit	No RP at end of pipe
Arsenic	No	0.0005	No limit	No limit	No RP at default dilutions
Barium	No	NA	No limit	No limit	No RP at end of pipe
Beryllium	No	0.00016	No limit	No limit	No RP at default dilutions
Cadmium	No	0.000065	No limit	No limit	No RP at default dilutions
Hex. Chromium	No	NA	No limit	No limit	No RP at end of pipe
Iron	Yes	1.03	2.01	6.04	--
Lead	No	NA	No limit	No limit	No RP at end of pipe
Mercury	No	1.4 ng/L	No limit	No limit	No RP at default dilutions; apparent 29.1 ng/L outlier eliminated from RP dataset
Nickel	No	NA	No limit	No limit	No RP at end of pipe; apparent 52.75 ug/l outlier eliminated from RP dataset
Selenium	No	NA	No limit	No limit	No RP at end of pipe
Zinc	No	NA	No limit	No limit	No RP at end of pipe
Sulfate	No	62.4	No limit	No limit	No RP at default dilutions
WET C. dubia TUa	No	NA	No limit	No limit	No RP at end of pipe
WET P. prom. TUa	No	NA	No limit	No limit	No RP at end of pipe
Boron <sup>4</sup>	No	0.028	No limit	No limit	No RP at default dilutions

For the reasons explained above, MonPower believes that the renewal permit should be issued with the Monongahela River as the receiving stream, and requests that the renewal permit be issued with the WQBELs shown above as opposed to those listed in the Draft Permit.<sup>5</sup>

<sup>4</sup> Included for illustrative purposes. Please see the comment that immediately follows.

**3. The Outlet 006 Boron WQBELs are inappropriate and should be deleted.**

MonPower does not believe that a reasonable potential assessment for boron should be conducted or is necessary, because, as WVDEP acknowledges in the Fact Sheet for the Draft Permit, there are no applicable water quality criteria for boron. Even if boron is to be included by WVDEP in the WQBEL analysis, WVDEP has made no effort to demonstrate that the boron in the discharge at Outlet 006 is “harmful to or toxic to man, animal, or aquatic life,” as suggested in the Fact Sheet. Therefore, WVDEP should not impose boron WQBELs on the discharge at Outlet 006 and should continue to impose a monitor-only requirement for boron.

- a. WVDEP has illegally created a *de facto* numeric water quality criterion without following the appropriate rulemaking procedures.

Section A.006 of the Draft Permit imposes boron WQBELs of 3.8 mg/l average monthly and 7.5 mg/l maximum daily. In the Fact Sheet, WVDEP states that it used one-tenth of a LC50 value of 797 mg/l for *Pimephales Promelas* from EPA’s ECOTOX database to assess whether “there is reasonable potential to cause or contribute to violation of the State’s narrative water quality criterion.” WVDEP also states that it used the EPA’s “lifetime health advisory for boron of 5 mg/l . . . as a Category A (Human Health) criteria to evaluate if there is reasonable potential to cause or contribute to a violation of the State’s narrative water quality criterion.” Even if the use of these values was technically defensible (it is not for reasons explained below), WVDEP is engaging in rulemaking without following the required rulemaking procedures.

WVDEP’s application of a narrative water quality standard to impose end-of-pipe effluent limitations for boron is a *de facto* creation of a numeric water quality standard, and WVDEP did not follow the required procedures to take this action. West Virginia’s water quality criteria are contained at W. Va. C.S.R. § 47-2-8, Appendix E. WVDEP’s authority to implement specific water quality criteria is found at *W. Va. Code* § 22-11-4(a)(16), which requires WVDEP to set such standards through rulemaking. WVDEP may only conduct rulemakings in accordance with the requirements of the State Administrative Procedures Act. *See W. Va. Code* § 29A-3-1. WVDEP failed to follow the procedures for rulemaking in developing the *de facto* numeric water quality criteria for boron used in the Draft Permit. Until it follows the proper and appropriate procedures for creating a numeric water quality criterion, WVDEP cannot apply such a standard to Outlet 006. To do otherwise would be to engage in unauthorized rulemaking through this permitting action.

- b. WVDEP has failed to show that boron in the Outlet 006 discharge is harmful to or toxic to animal or aquatic life.

As indicated in the Fact Sheet for the Draft Permit, WVDEP improperly created a new aquatic life-based water quality criterion for boron using one-tenth of a value of 797 mg/l that it purportedly pulled from EPA’s ECOTOX database. Establishment of a *de facto* numeric water quality for boron from the discharge at Outlet 006 is not necessary to protect aquatic life.<sup>6</sup> MonPower currently performs periodic acute whole effluent toxicity

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<sup>5</sup> MonPower expects that WVDEP may need to re-notice the Draft Permit following the appropriate determination that the Monongahela River is the receiving water for the discharge at Outlet 006.

<sup>6</sup> Notably, WVDEP does not use the term “safe concentration value” in the Fact Sheet or record for the Draft Permit with respect to its creation of the *de facto* numeric water quality criteria for boron. MonPower views this as an acknowledgment by WVDEP that it cannot use W. Va. CSR § 47-2-9 in this matter. To the extent that WVDEP is purporting to justify the proposed boron WQBELs based on W. Va. CSR § 47-2-9, WVDEP must provide notice and an opportunity to comment on the use of any such authority in this proposed permitting action.

("WET") testing of the discharge at Outlet 006 to ensure that the discharge will not harm animal or aquatic life. WVDEP has also proposed to replace the current acute WET testing requirement with a requirement to perform periodic chronic WET testing of the discharge at Outlet 006.

If the Monongahela River is the receiving stream, the data set developed from MonPower's acute WET testing and those that will be developed from chronic WET testing are superior indicators and ways of determining whether boron (or any constituent, for that matter) in the discharge at Outlet 006 are potentially harmful to aquatic life.<sup>7</sup> Both acute and chronic WET testing require sophisticated analyses that account for many factors and are conducted according to EPA-approved reference methods, including EPA 1000.0 and 1002.0. Acute WET test reports yield 50% lethal concentration ("LC50"), converted into Acute Toxic Units ("TUa"). See Condition C.18 of 2015 NPDES Permit. The proposed chronic WET test reports will yield several quantitative factors beyond just the 50% lethal concentration ("LC50"). They will also provide the no observable effect concentration ("NOEC"), lowest observable effect concentration ("LOEC"), and 25% inhibition concentration ("IC25"). See Condition 18 of Draft Permit. Finally, the chronic toxicity units ("TUc") are calculated by dividing 100 by the NOEC; the LC50 is not used to calculate TUc. This means that for each TUc result of "0," there is no observed difference in toxicity between 100% effluent and the laboratory control water. Acute and chronic WET testing results are far more site-specific and appropriate as compared to abstract research-based values that may not be entirely applicable.

The existing acute toxicity data show that neither the boron component nor any combination of analytes from Outlet 006 are causing harm to animal or aquatic life. This existing acute WET testing dataset will soon be supplemented with chronic WET testing data. WVDEP's stated concerns regarding the boron in discharge at Outlet 006 are and will continue to be addressed without the need for WVDEP to create a *de facto* aquatic life-based boron water quality criterion arbitrarily and improperly.

c. WVDEP has failed to show that boron in the Outlet 006 discharge is harmful to or toxic to human health.

As indicated in the Fact Sheet for the Draft Permit, WVDEP improperly created a new human health-based water quality criterion for boron using what it identified as EPA's "lifetime health advisory for boron of 5 mg/l." First, WVDEP incorrectly states that EPA has created a lifetime health advisory limit for boron of 5 mg/l. EPA's lifetime health advisory limit for boron is actually 6 mg/l. See U.S. EPA, *2018 Edition of the Drinking Water Standards and Health Advisories Table* (March 2018), p. 8 of 12. Second, EPA's boron lifetime health advisory is expressly classified as "I," which means that there is "inadequate information to assess carcinogenic potential." *Id.* Thus, WVDEP improperly justifies its boron WQBELs on the use of a lifetime health advisory value for boron that EPA itself acknowledges is based on inadequate information.

Third, even if WVDEP used a correct lifetime health advisory value that was based on adequate information (it did not and cannot), WVDEP cannot reasonably believe it is appropriate to use a *lifetime* health advisory value under these circumstances. EPA's drinking water health advisories are non-regulatory concentrations of drinking water contaminants at which it is conservatively assumed that adverse health effects are anticipated to occur over specific exposure durations. These health advisories are to "serve as informal technical guidance for unregulated drinking water contaminants to assist Federal, State and local officials, and managers of public or community water systems in protecting public health as needed" and are "*not* to be construed as legally enforceable Federal standards." *Id.*, p. iii (emphasis added). A lifetime health advisory, like the one relied on by WVDEP here, is "the concentration in drinking water that is not expected to cause any

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<sup>7</sup> If WVDEP appropriately considers the Monongahela River as the receiving stream for the Outlet 006 discharge, MonPower believes the proposed chronic WET testing requirements in Section A.006 of the Draft Permit should be deleted, in which case the existing acute WET testing requirements will continue to demonstrate that the discharge at Outlet 006 is not toxic.



adverse noncarcinogenic effects for a *lifetime* of exposure.” *Id.* (emphasis added). It is difficult to believe that WVDEP expects anyone to use the discharge from Outlet 006 as a lifetime supply of drinking water.

Here, if WVDEP properly uses the Monongahela River as the receiving stream for the Outlet 006 discharge,<sup>8</sup> the nearest location where background concentrations of boron are available show that background levels of boron in the River are three orders of magnitude less than (or 0.5% of) EPA’s lifetime health advisory value. Thus, WVDEP has failed to and cannot demonstrate that boron in the Outlet 006 discharge is harmful to human health.

Because the boron WQBELs at Outlet 006 lack any defensible technical basis, the limits should be deleted and replaced with a monitor-only requirement.

**4. WVDEP should issue a compliance schedule for any new or more stringent WQBEL applied to the discharge at Outlet 006.**

WVDEP is authorized under W.Va. CSR § 47-10-8 to allow for a compliance schedule “when appropriate” to achieve compliance. In the Draft Permit, WVDEP proposes to impose new or more stringent effluent limits for a host of parameters, including aluminum, arsenic, beryllium, boron, cadmium, iron, and mercury. While WVDEP will need to perform a new reasonable potential analysis when the receiving stream for Outlet 006 is changed to the Monongahela River, WVDEP should, in conjunction with that effort, allow MonPower sufficient time to comply with any new or more stringent effluent limits. It is unreasonable to create immediate compliance obligations for new or more stringent effluent limits for which additional time and potential changes related to the Landfill’s discharge are needed for compliance. It is also unreasonable to assume that 24 months is sufficient to achieve compliance under all circumstances, without exception. MonPower requests that WVDEP evaluate the time that will reasonably be needed to achieve compliance with any new or more stringent effluent limit, on a constituent-by-constituent basis, after considering the Monongahela River as the receiving stream.

**5. All proposed monthly average reporting requirements for MW101, MW103, MW104, MW105, MW106, MW107A, MW107B, and MW108B must be deleted.**

The Draft Permit includes proposed new requirements to report Monthly Average values for all parameters at the above-referenced monitoring wells. The reporting of Monthly Averages for parameters for which monitoring is only required twice per year is superfluous and should be eliminated. Groundwater monitoring is not addressed by the USEPA’s NPDES Permit Writers Manual, which applies only to outfall/surface water sampling practices. Groundwater monitoring is governed by West Virginia’s Solid Waste Rules under 33CSR1 §4.11.a.5.F, which do not require monthly averaging of semi-annual groundwater sampling results.

Unlike free-flowing surface water, monthly average values are not a proper metric for slow-moving groundwater where discrete samples should maintain statistical independence. Further, the reporting of Monthly Average values for groundwater samples deviates from previous Solid Waste/NPDES permits for the Landfill in which only Maximum Daily values have been required for reporting purposes. These new proposed requirements to report Monthly Average values for semiannual groundwater samples are unnecessarily burdensome and will merely result in reporting the exact same values for Maximum Daily and Monthly Average for each parameter at each monitoring location during each reporting period. All these proposed new requirements in Sections

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<sup>8</sup> If WVDEP continues to improperly use UNT 122.1 as the receiving stream for the Outlet 006 discharge, it goes without saying that it would be wholly inappropriate to consider UNT 122.1 as a source of drinking water, much less than a 70-kg adult would drink 2 liters of any water in UNT 122.1 per day over a lifetime.

A.MW101, A.MW103, A.MW104, A.MW105, A.MW106, A.MW107A, A.MW107B, and A.MW108B should be deleted prior to issuing the final permit.

**6. All proposed requirements related to an assessment of corrective measures for arsenic in groundwater should be deleted.**

After issuing a letter on November 18, 2021, accepting the conclusions and proposed groundwater monitoring in MonPower's Groundwater Assessment Report, dated September 23, 2021 ("Report"), WVDEP has completely reversed course and concludes in the Fact Sheet that "the proposed plan did not comply with 33 CSR 1, Section 4.11.e. (Assessment of Corrective Measures)." Based on this sudden and unexpected change of position after accepting the conclusions in the Report over one and a half years ago, WVDEP proposes to impose a host of requirements in Section B, Schedule for Compliance, related to completion of an "Assessment of Corrective Action for arsenic in groundwater." Because WVDEP's sudden reversal is without basis, WVDEP should delete all requirements in the Draft Permit purporting to require MonPower to complete an assessment of corrective action for arsenic in groundwater.

In accordance with Consent Order No. 9032 that was issued by WVDEP to MonPower on January 26, 2020, MonPower submitted the Report. MonPower completed the groundwater assessment consistent with a Groundwater Assessment Plan ("GWAP") prepared and submitted to WVDEP in October 2019, which included the scope of work MonPower proposed to complete to characterize the nature and extent of elevated arsenic concentrations at the Landfill. WVDEP approved the GWAP on October 30, 2020.

The Report documented the results of MonPower's groundwater assessment, concluding that the only constituent that exceeded West Virginia's groundwater protection standards ("GWPS") was arsenic and the only monitoring well where these elevated arsenic levels were observed was MW-106. MW-106 is immediately adjacent to the landfill boundary, unlike the newly installed monitoring wells MW-107A/B and MW-108. These newly installed monitoring wells are near the MonPower property line for the Landfill, and samples from both wells showed arsenic levels below the GWPS.

MonPower's Report used the "point of compliance" set forth in W.Va. CSR § 33-1-4.5.d.1.G.1<sup>9</sup> and determined that arsenic was not detected above the GWPS at the property line for the Landfill, given that the only elevated concentration of arsenic was detected at MW-106. All other monitoring wells, including those at or near the property line, demonstrated that arsenic concentrations were below the GWPS. Consequently, MonPower concluded that no further assessment or abatement activities at the Landfill were necessary, but committed to continue to monitor groundwater for arsenic and other constituents.

WVDEP appropriately agreed with this assessment and plan in its November 18, 2021 response. Indeed, WVDEP accepted the point of compliance identified by MonPower and never suggested that it had any concern about noncompliance with any regulation. Instead, WVDEP required that MonPower conduct further monitoring of the wells for four consecutive semi-annual periods "to further assess potential arsenic trends and to verify that groundwater at the facility continues to meet Groundwater Protection Standards." WVDEP's 11/18/2021 Response Letter, p. 1 (emphasis added).

Reversing course after all this time and after MonPower reasonably relied on WVDEP's conclusions in completing the required additional monitoring is arbitrary, capricious, and unreasonable. WVDEP should revert to

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<sup>9</sup> Point of compliance, in accordance with W.Va. CSR § 33-1-4.5.d.1.G.1., is 150 meters (492 feet) from the waste management unit boundary or property line, whichever is closer.

its original acceptance of MonPower's demonstration of compliance with the GWPS, including those for arsenic. Changing its position now, in the context of this permitting action, is unwarranted, as nothing has changed factually and the results from three consecutive quarters of groundwater monitoring completed thus far demonstrate that groundwater concentrations continue to meet the arsenic GWPS at the point of compliance. After the fourth monitoring event is completed in the Fall of 2023, MonPower will evaluate the data to determine whether any corrective measures are warranted.

**7. Numerous requirements in Section D – Groundwater Monitoring should be deleted or revised.**

In the Draft Permit, WVDEP proposes to add an entire suite of prescriptive groundwater monitoring requirements for the first time based on its erroneous new conclusion that further assessment and abatement activities are required for arsenic in the groundwater. All these requirements should be removed for the reasons stated above in Comment 6. Nevertheless, because these new proposed requirements are flawed, MonPower offers these separate comments on the new proposed requirements in Section D of the Draft Permit:

- Section D.2.b. of the Draft Permit includes various proposed requirements for an assessment monitoring program – Phase II. The table included in this section lists background values for various constituents that appear to be taken from the statistical evaluation that MonPower performs semi-annually in accordance with current permit condition C.2. MonPower's statistical evaluation included background values that were derived from the Upper Prediction Limit ("UPL") data from background well MW-101 under a detection monitoring scenario. However, UPL data is not typically used as a basis for assessment monitoring that WVDEP proposes in the Draft Permit language. Rather, an Upper Tolerance Limit ("UTL") should be used for assessment monitoring, and the background levels listed in this section's table should be revised to the UTLs. In addition, footnote "\*\*\*\*" in this section states that MonPower may compare the result of a Lower Confidence Limit ("LCL") calculation for boron and manganese at certain wells. This footnote should be revised to allow MonPower to use the LCL for all parameters that are listed in this table. Lastly, the table in this section states that the GWPS for arsenic is 0.010 mg/l, but this concentration should be revised to the background value of 0.0292 mg/l because the background level is higher than the GWPS.
- Section D.2.c.(1) of the Draft Permit provides that MonPower is to identify downgradient receptors of groundwater from areas impacted by arsenic at MW-106. Although this requirement is based on a false premise, *i.e.*, that further actions are a foregone conclusion for arsenic in the groundwater, WVDEP has failed to demonstrate that off-site groundwater is impacted by arsenic levels above the GWPS. The sampling results for arsenic at MW-107 show arsenic levels below 0.010 mg/l and the trend at this location is decreasing concentrations of arsenic. The sample collected at MW-107B showed non-detect for arsenic. MonPower is willing to identify downgradient receptors if the data supports that the Landfill is impacting off-site groundwater at or beyond the point of compliance. Until then, this requirement cannot reasonably be applied and should be deleted.
- Section D.2.c.(2) of the Draft Permit requires MonPower to delineate arsenic impacts to groundwater from MW-106 in both southwesterly and northeasterly downgradient directions. This requirement is questionable at best, given that samples taken at MW-107A show arsenic levels below the standard and exhibit a trend of decreasing arsenic concentrations. The sample at MW-107B was non-detect for arsenic. Thus, there is nothing showing that off-site groundwater is impacted by arsenic in a southwesterly direction. Although there is a component of flow to the

northeast, it is in a separate aquifer that does not exhibit any arsenic impacts and is situated below the elevation of the Sewickley Coal seam on the other side of the Landfill. Furthermore, MW-103, MW-104, and MW-105, all of which are in a northwesterly direction, do not show any arsenic impacts. In addition, the primary component of groundwater flow in the vicinity is downward into the mine void and then northwesterly within the void. This is clearly demonstrated by a downward vertical gradient of -1.1, whereas the horizontal gradient is much less at 0.07.

- Section D.2.c.(3) of the Draft Permit purports to require Mon Power to complete an Assessment of Corrective Action, discuss the results at a public meeting, and select a remedy that is to be incorporated into the permit. As already discussed, this requirement is based on a flawed and sudden reversal of WVDEP's prior acceptance of MonPower's point of compliance demonstration in the Report. Until the groundwater data supports it, any requirement to complete these actions is premature and must be deleted from the Draft Permit.
- Section D.2.d of the Draft Permit includes several requirements related to a proposed "Corrective Action Program." All these requirements should be deleted as they are premature and inconsistent with WVDEP's November 2021 directive that followed the submission of MonPower's Report. Furthermore, WVDEP's attempt to impose corrective action requirements based on only two successive monitoring events is technically flawed, even if it were appropriate to require under these circumstances. A minimum of four, and preferably eight, independent sampling events are needed to establish statistically significant trends in accordance with EPA's *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (EPA 530/R-09-007, March 2009).

Should you have any questions related to these comments on the Draft Permit or if a meeting to discuss these comments would be helpful, please do not hesitate to contact me at (304) 480-1230 or [ctrembly@firstenergycorp.com](mailto:ctrembly@firstenergycorp.com).

Sincerely,



for Carol Trembly  
Supervisor, Water, SPCC and Environmental  
Services, FirstEnergy Service Company, on  
behalf of MonPower

Enclosure

cc: James A. Meade, Esq.  
Mark Amendola, P.E.  
Christopher B. (Kip) Power, Esq.  
Gary Steinbauer, Esq.

**WATER QUALITY BASED EFFLUENT LIMITATIONS**

v 10.3

**MonPower - Rivesville**

**Outlet: 006**

**Stream: Unnamed Tributary**

Hardness (mg/l):	115	Instream Waste %:	0.10
Temperature (°C):	27	ZID:	3.0
pH:	7.3	CMZ:	5.0
Stream 1Q10 (CFS):	NA	HH CMZ:	5.0
Stream 7Q10 (CFS):	345	HHA 1/2 Mile Rule CMZ:	5.0
Effluent Flow (MGD):	0.218		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Aluminum	NA	0.5000	Yes	Yes	1.0358	3.5918	Tier 1
Antimony	NA	NA	No	No	Monitor	Monitor	Tier 1
Arsenic	NA	0.0005	Yes	No	Monitor	Monitor	Tier 1
Barium	NA	NA	No	No	Monitor	Monitor	Tier 1
Barium	NA	0.0001600	Yes	No	Monitor	Monitor	Tier 1
Cadmium	NA	0.0001	Yes	No	Monitor	Monitor	Tier 1
Hexavalent Chromium	NA	NA	No	No	Monitor	Monitor	Tier 1
Iron	NA	1.0300	Yes	Yes	2.0074	6.0388	Tier 1
Lead	NA	NA	No	No	Monitor	Monitor	Tier 1
Mercury	NA	0.00000140	Yes	No	Monitor	Monitor	Tier 1
Nickel	NA	NA	No	No	Monitor	Monitor	Tier 1
Selenium	NA	NA	No	No	Monitor	Monitor	Tier 1
Zinc	NA	NA	No	No	Monitor	Monitor	Tier 1
Sulfate	NA	62.40	Yes	No	Monitor	Monitor	Tier 1
WET - Ceriodaphnia Dubia	NA	NA	No	No	Monitor	Monitor	Tier 1
WET - Pimephales Promelas	NA	NA	No	No	Monitor	Monitor	Tier 1
Boron	NA	0.02800	Yes	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANGO Pollution Control Standards:	No
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	Yes
Outfall has Tier 2.0 anti-degradation limitations for at least one pollutant:	No













ATTACHMENT A

147

Indeno(1,2,3-cd)Pyrene	Benzo(a)anthracene	Fluorene	Phenanthrene	Methyl Bromide	Methylene Chloride	Dichlorobromobenzene	Benzobicyclophosphazene	Diethyl Phthalate	Dibutyl Phthalate	Dioctyl Phthalate	Di-n-Butyl Phthalate	Baron
(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
0	0	0	0	0	0	0	0	0	0	0	0	48
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	71.72
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4941
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.3614
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.37928
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8507
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23.5250
0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6000	0.6258
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.57
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.000013	NA	NA	NA	10	1	0.027	0.0001	0.6	2	0.03	NA	NA
0.000012	NA	0.015	NA	0.1	0.02	0.00095	0.0001	0.6	2	0.02	NA	5
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.850541705
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#VALUE!	NA	NA	NA	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	4.727566078
#VALUE!	NA	#VALUE!	NA	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.00000000	0.0000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.029000

# ATTACHMENT A

Mon River Data, Fall 2014

Total Aluminum				Dissolved Aluminum				Diss. Fraction	
Date	Time	Location	mg/L	Date	Time	Location	mg/L		max
11/20/2018	10:00	Monongahela	0.94	11/20/2018	10:00	Monongahela	0.017	0.02	0.49
2/22/2019	10:00	Monongahela	0.94	2/22/2019	10:00	Monongahela	0.042	0.05	
4/2/2019	10:00	Monongahela	0.94	4/2/2019	10:00	Monongahela	0.047	0.06	
6/22/2018	10:00	Monongahela	0.94	6/22/2018	10:00	Monongahela	0.018	0.02	
6/22/2018	10:00	Monongahela	0.94	6/22/2018	10:00	Monongahela	0.133	0.24	
6/22/2018	10:00	Monongahela	0.94	6/22/2018	10:00	Monongahela	0.022	0.17	
6/22/2018	10:00	Monongahela	0.94	6/22/2018	10:00	Monongahela	0.014	0.34	
11/14/2018	10:00	Monongahela	0.94	11/14/2018	10:00	Monongahela	0.097	0.23	
11/17/2018	10:00	Monongahela	0.94	11/17/2018	10:00	Monongahela	0.054	0.17	
11/17/2018	10:00	Monongahela	0.94	11/17/2018	10:00	Monongahela	0.022	0.16	
11/17/2018	10:00	Monongahela	0.94	11/17/2018	10:00	Monongahela	0.023	0.18	
3/12/2019	10:00	Monongahela	0.94	3/12/2019	10:00	Monongahela	0.05	0.09	
3/12/2019	10:00	Monongahela	0.94	3/12/2019	10:00	Monongahela	0.024	0.15	
3/12/2019	10:00	Monongahela	0.94	3/12/2019	10:00	Monongahela	0.024	0.20	
3/12/2019	10:00	Monongahela	0.94	3/12/2019	10:00	Monongahela	0.03	0.30	
7/16/2019	10:00	Monongahela	0.94	7/16/2019	10:00	Monongahela	0.038	0.09	
8/19/2019	10:00	Monongahela	0.94	8/19/2019	10:00	Monongahela	0.011	0.17	
10/17/2019	10:00	Monongahela	0.94	10/17/2019	10:00	Monongahela	0.011	0.22	
10/22/2019	10:00	Monongahela	0.94	10/22/2019	10:00	Monongahela	0.023	0.00	
12/17/2019	10:00	Monongahela	0.94	12/17/2019	10:00	Monongahela	0.042	0.08	
2/19/2020	10:00	Monongahela	0.94	2/19/2020	10:00	Monongahela	0.022	0.23	
6/18/2021	10:00	Monongahela	0.94	6/18/2021	10:00	Monongahela	0.051	0.35	
9/16/2021	10:00	Monongahela	0.94	9/16/2021	10:00	Monongahela	0.041	0.48	
12/15/2021	10:00	Monongahela	0.94	12/15/2021	10:00	Monongahela	0.042	0.48	
4/6/2022	10:00	Monongahela	0.94	4/6/2022	10:00	Monongahela	0.059	0.45	
4/6/2022	10:00	Monongahela	0.94	4/6/2022	10:00	Monongahela	0.048	0.49	
6/15/2022	10:00	Monongahela	0.94	6/15/2022	10:00	Monongahela	0.11	0.25	
AVERAGE			0.94	AVERAGE			0.038		

ATTACHMENT A

Mon River Data, RM 99.4

Total Arsenic

							mg/L
1/16/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.005
2/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
4/2/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
5/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
6/25/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
8/9/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
9/5/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
10/23/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
11/14/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
1/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
3/12/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
5/20/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
6/24/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
7/18/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
8/19/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
10/1/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
10/23/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
12/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
2/19/2020 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.0016
8/18/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	0.00067
9/9/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	0.00043
12/15/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.00025
4/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.00044
5/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	< 0.00044
8/15/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	As, Total	0.00072
Average							0.0005

149

ATTACHMENT A

Mon River Data, RM 99.4

Total Beryllium

							mg/L
1/18/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	0.00017
2/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	0.00015
4/2/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	0.00012
5/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	0.00013
6/25/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	0.00012
8/9/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	0.00012
9/5/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
10/23/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
11/14/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
1/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
3/12/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
5/20/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
6/24/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
7/18/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
8/19/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
10/1/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
10/23/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
12/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	0.00077
2/19/2020 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00012
8/18/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00015
9/9/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00015
12/15/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00015
4/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00015
5/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00015
8/15/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Be, Total	< 0.00015
Average							0.00016

150

ATTACHMENT A

Mon River Data, RM 99.4

No recent T. Cd Mon River data; use D. Cd

Diss. Cd							mg/L	
1/16/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
2/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
4/2/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
5/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
6/25/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
8/9/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
9/5/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
10/23/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
11/14/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
1/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.001
3/12/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.0005
5/20/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.0005
6/24/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.0005
7/18/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.0005
8/19/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.0005
10/1/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.00005
10/23/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.00005
12/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.00005
2/19/2020 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.00005
8/18/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.000065
9/9/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.000065
12/15/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.000065
4/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.00013
5/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.00013
8/15/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Cd, Dissolved	<	0.00013
9/9/2021 WVM-up	103	Monongalia	39.624056	-79.96722	Monongahela	Cd, Dissolved	<	0.000065
10/26/2021 WVM-up	103	Monongalia	39.624056	-79.96722	Monongahela	Cd, Dissolved	<	0.000065

All data ND; use lowest DL of 0.000065 mg/L

151

ATTACHMENT A

Mon River Data, RM 99.4

Total Iron

1/16/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	2.25
2/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	1.39
4/2/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.95
5/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	1.48
6/25/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	1.13
8/9/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.32
9/5/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.07
10/23/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.42
11/14/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.46
1/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.34
1/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.36
3/12/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	1.29
5/20/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.52
6/24/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.31
7/18/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.22
8/19/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.08
10/1/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.09
10/23/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.09
12/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	13.9
2/19/2020 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.67
8/18/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.21
9/9/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.3
12/15/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.2
12/15/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.21
4/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.27
4/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.28
5/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.22
8/15/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Fe, Total	0.77
average							1.03

152



ATTACHMENT A

Mon River Data, RM 99.4

Total Hg

							mg/L
2/26/2008 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total	0.00000104
4/16/2008 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total	0.00000043
6/24/2008 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total	0.00000125
10/29/2008 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.00000050
12/11/2008 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total	0.0000037
10/21/2014 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.0001
12/2/2014 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.0001
2/11/2015 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.0001
3/18/2015 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.0001
4/28/2015 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.0001
9/18/2015 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.0001
12/22/2015 WVM-up	99.4	Monongalla	39.658022	-79.99315	Monongahela	Hg, Total <	0.0001
Use average of 2008 LL results							0.0000014

153

ATTACHMENT A

Mon River RM 99.4

Sulfate									mg/L
1/16/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	34.7	
2/22/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	37.5	
4/2/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	44.7	
5/22/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	4	
6/25/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	46.4	
8/9/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	56.2	
9/5/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	64.9	
10/23/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	49.2	
11/4/2018	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	36.3	
1/17/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	82.3	
1/17/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	83.2	
3/12/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	61.3	
5/20/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	45.3	
6/24/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	90.3	
7/18/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	45.5	
8/19/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	115	
10/1/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	111	
10/23/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	116	
12/17/2019	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	32	
2/19/2020	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	33.7	
8/18/2021	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	95	
9/9/2021	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	33.1	
12/15/2021	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	77	
12/15/2021	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	80.7	
4/5/2022	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	104	
5/5/2022	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	67.2	
8/15/2022	WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	Sulfate (SO4)	37.2	
Average								62.4	

ATTACHMENT A

Mon River RM 99.4

Boron							mg/L
1/16/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.015
2/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.014
4/2/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.009
5/22/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.019
6/25/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.024
8/9/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.023
9/5/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.03
10/23/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.022
11/14/2018 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.016
1/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.022
1/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.023
3/12/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.018
5/20/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.02
6/24/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.039
7/18/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.022
8/19/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.04
10/1/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.048
10/23/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.057
12/17/2019 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.028
2/19/2020 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.012
8/18/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.045
9/9/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	< 0.032
12/15/2021 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.037
4/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	< 0.032
4/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	0.033
5/5/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	< 0.032
8/15/2022 WVM-up	99.4	Monongalia	39.658022	-79.99315	Monongahela	B, Total	< 0.032
Average							0.028

155

**Rivesville WV0050776**

3 messages

**Silvestro, Cara** <csilvestro@firstenergycorp.com>  
 To: "Lockhart, John V" <john.v.lockhart@wv.gov>

Wed, Jul 19, 2023 at 10:03 AM

Thank you.

**Cara Silvestro**

Advanced Scientist

office: 330.436.2645 / 850.2645 | cell: 330.212.5101

csilvestro@firstenergycorp.com

341 White Pond Drive, Akron, OH 44320 | mailstop: A-WAC-C1

**From:** Lockhart, John V <john.v.lockhart@wv.gov>  
**Sent:** Wednesday, July 19, 2023 9:31 AM  
**To:** Silvestro, Cara <csilvestro@firstenergycorp.com>  
**Cc:** yogesh.p.patel@wv.gov; Cannon, William E <wcannon@firstenergycorp.com>; Trembly, Carol L (Support Services (2)) <ctrembly@firstenergycorp.com>  
**Subject:** [EXTERNAL] Re: Rivesville WV0050776

External sender, use caution with links/attachments. Click 'Report Message' in Outlook if suspicious.

[Quoted text hidden]

[Quoted text hidden]

**Lockhart, John V** <john.v.lockhart@wv.gov>  
 To: "Silvestro, Cara" <csilvestro@firstenergycorp.com>  
 Cc: "yogesh.p.patel@wv.gov" <yogesh.p.patel@wv.gov>, "Cannon, William E" <wcannon@firstenergycorp.com>, "Trembly, Carol L (Support Services (2))" <ctrembly@firstenergycorp.com>

Wed, Jul 19, 2023 at 9:31 AM

Cara,

I believe this is acceptable. Please submit your comments as soon as possible but no later than 8/30/2023. Upon submission, the comment period will officially close. The comment period may not be extended past 8/30/2023 per 33 CSR 1, Section 3.21.b.1.

Thanks,

John V. Lockhart, P.E.  
 Solid Waste Permitting Supervisor  
 Department of Environmental Protection  
 Division of Water and Waste Management  
 601 57th Street  
 Charleston, WV 25304  
 304.414.3889 phone  
 john.v.lockhart@wv.gov  
 dep.wv.gov

[Quoted text hidden]

**Silvestro, Cara** <csilvestro@firstenergycorp.com>  
 To: "John.V.Lockhart@wv.gov" <John.V.Lockhart@wv.gov>  
 Cc: "yogesh.p.patel@wv.gov" <yogesh.p.patel@wv.gov>, "Cannon, William E" <wcannon@firstenergycorp.com>, "Trembly, Carol L (Support Services (2))" <ctrembly@firstenergycorp.com>

Wed, Jul 19, 2023 at 9:11 AM

John,

I would like to formally request a second 30-day extension for our Rivesville permit WV0050776 comment period. In our review, we have found that we need extra time in order to fully consider our options relative to the limitations being proposed for outlet 006 and to present fully reasoned comments. Our current comment period ends 7/30. Please let me know if you have any questions or how we should proceed.

Thank you,



**Cara Silvestro**

Advanced Scientist

office: 330.436.2645 / 850.2645 | cell: 330.212.5101

csilvestro@firstenergycorp.com

341 White Pond Drive, Akron, OH 44320 | mailstop: A-WAC-C1

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USPS and email

June 8, 2023

Mr. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

Dear Ms. Emery:

Re: Monongahela Power Company  
Rivesville Power Station Closed CCB Landfill  
Marion County - Rivesville, WV  
SW/NPDES Permit No. WV0050776  
Public Comment Period Extension Request

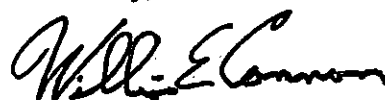
On behalf of the Rivesville Power Station Closed CCB Disposal Facility, I am hereby requesting a thirty-day extension of the public comment period for the subject draft permit. Upon the permittee's request, West Virginia Rule §47-10-12.1-b.1 allows for an extension of the public comment period for an additional thirty days. As originally noticed, the public comment period would expire June 30, 2023. A thirty-day extension will result in a revised comment period ending July 30, 2023.

This extension is requested to allow full consideration of proposed effluent limitations and to accommodate employee vacation periods.

Monongahela Power will submit comments on this draft permit to the Department on, or before, the extended deadline.

Should you have any questions regarding this request, please contact me at [wcannon@firstenergycorp.com](mailto:wcannon@firstenergycorp.com) or (724) 838-6018.

Sincerely,



FirstEnergy Service Company,  
On behalf of  
Monongahela Power

c: email

Hiral Kukkill, WVDEP, Charleston  
John Lockhart, WVDEP, Charleston  
Valinda K. Neal, WVDEP, Charleston  
Kolby Sutphin, WVDEP, Charleston



Sutphin, Kolby &lt;kolby.sutphin@wv.gov&gt;

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**Re: WV0050776 draft permit**

1 message

**Devereux, Lori K** <lori.k.devereux@wv.gov>

Thu, Jun 1, 2023 at 11:23 AM

To: "Clark, Shaun P" &lt;shaun.p.clark@wv.gov&gt;, Kolby Sutphin &lt;kolby.sutphin@wv.gov&gt;

Shaun this is a solid waste permit. looks like the permit writer is Kolby Sutphin

On Thu, Jun 1, 2023 at 7:31 AM Clark, Shaun P &lt;shaun.p.clark@wv.gov&gt; wrote:

Do you know who does the public notices for the individual permits? I didn't know this was done and have never been asked this question.

**-Shaun**

----- Forwarded message -----

From: **Kraykovic, Jonathan A** <jkrayko@firstenergycorp.com>

Date: Wed, May 31, 2023 at 10:21 AM

Subject: WV0050776 draft permit

To: shaun.p.clark@wv.gov &lt;shaun.p.clark@wv.gov&gt;, YOGESH.P.PATEL@WV.GOV &lt;YOGESH.P.PATEL@wv.gov&gt;

Shaun and Yogesh,

I'm not sure if you can help me or if there is someone else. Since Bill Cannon is on vacation this week, I believe the draft permit for our Rivesville is being published in the local paper. Would you be able to send me the draft permit since he is still on vacation?

Thank you.

I believe it is for WV0050776 Rivesville CCB site.

Jonathan Kraykovic

Sr Environmental Spec

office: 724-838-6912 (350-6912) | cell: 724-953-9296

jkrayko@firstenergycorp.com

800 Cabin Hill Drive, Greensburg, PA 15601 | mailstop: G-CH / Greensburg Corporate Center

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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: 304-926-0495 / Fax: 304-926-0463

Harold Ward, Cabinet Secretary  
dep.wv.gov

May 30, 2023

Mr. William Cannon  
Monongahela Power Company  
800 Cabin Hill Drive  
Greensburg, PA 15601

RE: WV SW/NPDES Permit No. WV0050776 Rivesville

Dear Mr. Cannon:

Please find enclosed a copy of the public notice. The public notice is scheduled to be advertised on Wednesday, May 31, 2023, and Wednesday, June 7, 2023, in the Times West Virginian.

As the applicant, you are responsible for paying for the advertisements. Your statement for billing has been forwarded to the newspaper.

Should you have any questions, please contact me at 304-926-0499, ext. 43846 or by email, Valinda.K.Neal@wv.gov.

Sincerely,

Valinda Neal  
Solid Waste Permitting

Attachments





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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: 304-926-0495 / Fax: 304-926-0463

Harold Ward, Cabinet Secretary  
dep.wv.gov

May 26, 2023

Times West Virginian  
Legal Advertising Department  
300 Quincy Street  
Fairmont, WV 26554

Re: Rivesville Landfill WV SW/NPDES Permit No. WV0050776

To Whom It May Concern:

Please publish the attached public notice and map as a class II legal advertisement in the Times West Virginian on Wednesday, May 31, 2023, and Wednesday, June 7, 2023.

Send the original Affidavit of Publication to Hiral Kukkillaya, Division of Water and Waste Management, 601 57<sup>th</sup> Street SE, Room 1044, Charleston, WV 25304. Monongahela Power Company has agreed to pay for the cost of the legal advertising; please find enclosed the Statement for Billing.

If you have any questions, please contact me at (304) 926-0499, ext. 43846; or e-mail me at Valinda.K.Neak@wv.gov.

Thank you,

Valinda K. Neal  
Solid Waste Permitting

Attachments

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT**

**PUBLIC NOTICE**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S, PUBLIC INFORMATION OFFICE, 601 57TH STREET, CHARLESTON SE, WEST VIRGINIA 25304-2345 TELEPHONE: (304) 926-0440.**

**APPLICATION FOR A WEST VIRGINIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WATER POLLUTION CONTROL PERMIT**

**Public Notice No.:** IW-3-2023

**Public Notice Date:** May 31, 2023 and June 7, 2023

**Paper:** *Times West Virginian*

The following has applied for a WV NPDES Water Pollution Control Permit for this facility or activity:

**Appl. No.:** WV0050776

**Applicant:** MONONGAHELA POWER COMPANY  
800 CABIN HILL DRIVE  
GREENSBURG, PA 15601-1689

**Location:** RIVESVILLE, MARION COUNTY

**Latitude:** 39:32:30

**Longitude:** 80:05:30

**Receiving Stream:**  
MONONGAHELA RIVE

**Activity:**

1. Maintain and monitor a closed industrial solid waste disposal facility in the drainage basin of an unnamed tributary of the Monongahela River previously utilized for the disposal of waste materials generated at the Rivesville Power Station.
2. Maintain and monitor a closed industrial solid waste disposal facility in the drainage basin of Parker Run, a tributary of the Monongahela River, for the disposal of waste materials generated at the Rivesville Power Station.
3. Construct and operate a disposal system (surface impoundment) for the direct discharge of treated industrial wastes or other wastes (stormwater runoff and leachate) into the waters of an unnamed tributary of the Monongahela River (Outlet No. 006).

**Business conducted:**

Maintain and monitor closed industrial solid waste disposal facilities utilized for the disposal of waste materials generated at the Rivesville Power Station.

**Implementation:**

/Implementation/

On the basis of review of the application, the "Water Pollution Control Act (Chapter 22, Article 11-8(a))," and the "West Virginia Legislative Rules," the State of West Virginia will act on the above application.

Any interested person may submit written comments on the draft permit and may request a public hearing by addressing such to the Director of the Division of Water and Waste Management within 30 days of the date of the public notice. Such comments or requests should be addressed to:

Director, Division of Water and Waste Management, DEP  
ATTN: Hiral kukkillaya, Permitting Section  
601 57th Street SE  
Charleston, WV 25304-2345

The public comment period begins May 31, 2023 and ends June 30, 2023.

Comments received within this period will be considered prior to acting on the permit application. Correspondence should include the name, address and the telephone number of the writer and a concise statement of the nature of the issues raised. The Director shall hold a public hearing whenever a finding is made, on the basis of requests, that there is a significant degree of public interest on issues relevant to the Draft Permit(s). Interested persons may contact the public information office to obtain further information.

The application, draft permit and any required fact sheet may be inspected, by appointment, at the Division of Water and Waste Management Public Information Office, at 601 57th Street SE, Charleston, WV 25304-2345, between 8:00 a.m. and 4:00 p.m. on business days.



19/5

19/4

19/6

Jordan

74/2

39 32' 1.6"

80 05' 40"

19

Records

Montana  
Mines

74

74/1

Rivesville  
River

19/3

74/3

Catawba

Montana

74



Applicant:	MONONGAHELA POWER COMPANY	Type:	Reissue NPDES Industrial
Reference ID:	WV0050776 Rivesville P.S. Closed CCR Landfill Renewal (06/21/2019)	Permit ID:	WV0050776
Form: Statement For Billing, Class II			
Status:	New	Printed:	Jul. 29, 2019 6:53 AM

The Monongahela Power Company, of which I am an  
 name of company or facility  
 authorized representative, has applied for a West Virginia National Pollutant Discharge Elimination System permit from the West Virginia Department of Environmental Protection, Division of Water Resources. Under the West Virginia Legislative Rules, Title 33, Series I, Section 3.21.3.b, the costs of publishing a Class II legal advertisement are to be paid by the applicant who must also send the certificate of publication to the Division of Water Resources within twenty (20) days after publication.

The Monongahela Power Company, hereby agrees to pay  
 name of company or facility  
 the cost of such legal advertisement. The publishing newspaper should send the certificate of publication and bill to, company or facility name and address:

Name: Monongahela Power Company  
 Line 1: 800 Cabin Hill Drive  
 Line 2: ATTN: W.E. CANNON  
 Country: United States of America  
 City: Greensburg  
 State: Pennsylvania  
 Zip: 15601 PostalCode Ref.

William E. Cannon 724 838-6018 (###-###-####)  
 authorized representative. area code phone number

*William E. Cannon*  
 Signature of Authorized Representative

Sworn and subscribed to before  
 me this 29th day of  
July, 2019  
Suzanne Palcic  
 Notary Public  
8-5-2021  
 Commission Expires

COMMONWEALTH OF PENNSYLVANIA  
 NOTARIAL SEAL  
 Suzanne Palcic, Notary Public  
 City of Greensburg, Westmoreland County  
 My Commission Expires Aug. 5, 2021  
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES



**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT  
601 57TH STREET SE  
CHARLESTON, WV 25304-2345**

**SOLID WASTE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
WATER POLLUTION CONTROL PERMIT**

**NPDES PERMIT NO.:** WV0050776

**SUBJECT:** Solid Industrial Waste

**ISSUE DATE:**

**EFFECTIVE DATE :**

**EXPIRATION DATE:**

**SUPERSEDES:** Permit No. WV0050776  
dated February 18, 2015

**LOCATION:** RIVESVILLE  
(City)

Marion  
(County)

Monongahela River  
(Drainage Basin)

See the next page for a list of Outlets.

**TO WHOM IT MAY CONCERN:**

**This is to certify that:** MONONGAHELA POWER COMPANY  
800 CABIN HILL DRIVE  
GREENSBURG, PA 15601-1689

**is hereby granted a West Virginia NPDES Water Pollution Control Permit to:**

1. Maintain and monitor a closed industrial solid waste disposal facility in the drainage basin of an unnamed tributary of the Monongahela River previously utilized for the disposal of waste materials generated at the Rivesville Power Station.
2. Maintain and monitor a closed industrial solid waste disposal facility in the drainage basin of Parker Run, a tributary of the Monongahela River, previously utilized for the disposal of waste materials generated at the Rivesville Power Station.
3. Operate and maintain a treatment and disposal system (surface impoundment) and best management practices for the direct discharge of treated industrial wastes or other wastes (stormwater runoff and leachate) into the waters of an unnamed tributary of the Monongahela River (Outlet No. 006).
4. Acquire, construct, install, operate, and maintain a low weir at the stormwater treatment and disposal system according to the designs and specifications submitted with Modification Application Number WV0050776-A, dated April 6, 2022.

**This permit is subject to the following terms and conditions :**

The information submitted on and with Permit Application No. WV0050776 dated the 14th day of August 2019, Permit Application No. WV0050776 dated the 26th day of August 2014, Permit Application No. WV0050776 dated the 19th day of November 2007, Permit Application No. WV0050776 dated the 29th day of October 2001, Permit Application No. WV0112160 dated the 17th day of February 2006, and the information submitted on and with letters dated the 4th day of September 1992, the 10th of September 2001, and the 2nd day of May 2008 are all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein and with other conditions set forth in Sections A, B, C, D, and Appendix A.

**The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.**

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (In Mile)	Milepost
006	39°32'24"	80°05'25"	Unnamed Tributary Of MONONGAHELA RV	0.21	N/A
LM1	39°32'30"	80°05'30"	N/A	N/A	N/A
LM2	39°32'24"	80°05'26"	N/A	N/A	N/A
MW101	39°32'14"	80°05'41"	N/A	N/A	N/A
MW103	39°32'24"	80°05'31"	N/A	N/A	N/A
MW104	39°32'25"	80°05'28"	N/A	N/A	N/A
MW105	39°32'22"	80°05'29"	N/A	N/A	N/A
MW106	39°32'23"	80°05'41"	N/A	N/A	N/A
MW107A	39°32'23"	80°05'46"	N/A	N/A	N/A
MW107B	39°32'23"	80°05'45"	N/A	N/A	N/A
MW108B	39°32'25"	80°05'43"	N/A	N/A	N/A



**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>	<u>Units</u>			
50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.0007 Avg. Monthly	0.0011 Max. Daily	mg/l	1/month	Grab
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.0096 Avg. Monthly	0.02 Max. Daily	ug/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

169

**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>			
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.23 Avg. Monthly	0.8 Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.89 Avg. Monthly	2.6 Max. Daily	mg/l	1/month	Grab
61426 - (Chronic Tox-Ceriodaphnia Du) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/year	8 hr comp
61428 - (Chronic Toxicity - Pimephales) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/year	8 hr comp
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.01 Avg. Monthly	0.015 Max. Daily	mg/l	1/month	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>			
01007 - (Barium, Total (as Ba)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A) Interim (Initial 24 months)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	3.8 Avg. Monthly	7.5 Max. Daily	mg/l	1/month	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00722 - (Cyanide, Free) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements		Units	Measurement Frequency	Sample Type
	Quantity	Units	Other Units	Units	Measurement Frequency	Sample Type			
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00998 - (Beryllium, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.004 Avg. Monthly	0.0077 Max. Daily	mg/l	1/month	Grab
01152 - (Total Titanium (as Ti)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
71870 - (Bromide) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

172

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, a 24" bituminous coated corrugated metal pipe

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**ALM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>			
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01055 - (Manganese, Total (as Mn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01027 - (Cadmium, Total (as Cd)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.

**ALM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements		Units	Measurement Frequency	Sample Type
	Quantity	Units	Other Units	Units	Measurement Frequency	Sample Type			
01042 - (Copper, Total (as Cu)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01051 - (Lead, Total (as Pb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01077 - (Silver, Total (as Ag)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01012 - (Beryllium, Total (as Be)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01007 - (Barium, Total (as Ba)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.

**ALM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>			
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01092 - (Zinc, Total (as Zn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.

**ALLM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Frequency</u>			
01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01067 - (Nickel, Total (as Ni)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM1, discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018.



**ALM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements		Units	Measurement Frequency	Sample Type
	Quantity	Units	Other Units	Units	Measurement Frequency	Sample Type			
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01055 - (Manganese, Total (as Mn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01027 - (Cadmium, Total (as Cd)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011

**A.LM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements		Units	Measurement Frequency	Sample Type
	Quantity	Units	Other Units	Units					
01042 - (Copper, Total (as Cu)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01051 - (Lead, Total (as Pb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01077 - (Silver, Total (as Ag)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01012 - (Beryllium, Total (as Be)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01007 - (Barium, Total (as Ba)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011

**ALM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements		Units	Measurement Frequency	Sample Type
	Quantity	Units	Other Units	Units	Measurement Frequency	Sample Type			
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01092 - (Zinc, Total (as Zn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011

**ALM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01067 - (Nickel, Total (as Ni)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

180

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
Leachate Monitoring Point LM2, a 3" plastic pipe depicted on Drawing C7550011

**AMW101 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW101 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U. 1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM 1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW101

181

**A.MW101 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW101 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>			
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F 1/6 months Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW101

182

**AMW101 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW101 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>			
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l 1/6 months Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

MW101

**A.MW103 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW103 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Quantity</u>		<u>Monitoring Requirements</u>			<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
			<u>Units</u>	<u>Other Units</u>	<u>Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.05 Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2387 Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW103



**A.MW103 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW103 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>				
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	14 Max. Daily	mg/l 1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2.29 Max. Daily	mg/l 1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F 1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	1170 Max. Daily	mg/l 1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW103

**A.MW103 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW103 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>			
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l 1/6 months Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	13.1 Max. Daily	mg/l 1/6 months Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.39 Max. Daily	mg/l 1/6 months Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	4 Max. Daily	ug/l 1/6 months Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW103

**A.MW104 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW104 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U. 1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2387 Max. Daily	mg/l 1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM 1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2 Max. Daily	mg/l 1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW104

**A.MW104 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW104 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>			
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2.29 Max. Daily	mg/l 1/6 months Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F 1/6 months Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	1170 Max. Daily	mg/l 1/6 months Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW104

**A.MW104 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW104 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>			
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l 1/6 months Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	13.1 Max. Daily	mg/l 1/6 months Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.39 Max. Daily	mg/l 1/6 months Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.004 Max. Daily	mg/l 1/6 months Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab

189

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW104

**A.MW105 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW105 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>				
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U. 1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.05 Max. Daily	mg/l 1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2387 Max. Daily	mg/l 1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM 1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2 Max. Daily	mg/l 1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW105

**A.MW105 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW105 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Units</u>				
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F 1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	1170 Max. Daily	mg/l 1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW105

**AMW105 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW105 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>			
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l 1/6 months Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	13.1 Max. Daily	mg/l 1/6 months Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.39 Max. Daily	mg/l 1/6 months Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab

192

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW105



**A.MW106 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW106 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Other Units</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Units</u>	<u>Units</u>	<u>Units</u>	<u>Units</u>			
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.05 Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2387 Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW106

**A.MW106 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW106 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>						
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	14 Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	2.29 Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	1170 Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
See Section D.2.b									
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW106

**AMW106 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW106 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>				<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>			
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l 1/6 months Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	13.1 Max. Daily	mg/l 1/6 months Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.39 Max. Daily	mg/l 1/6 months Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.004 Max. Daily	mg/l 1/6 months Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l 1/6 months Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW106

195

**A.MW107A MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW107A (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.3 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107A

**A.MW107A MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW107A (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.015 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107A

**A.MW107A MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW107A (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l 1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l 1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107A

198

**A.MW107B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW107B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.3 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107B

**A.MW107B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW107B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.015 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107B

200



**A.MW107B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning {Effective Date of Permit} and lasting through midnight {Expiration Date of Permit} the permittee will monitor Well Number(s) MW107B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

201

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW107B

**A.MW108B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning /begin\_date/ and lasting through midnight /end\_date/ the permittee will monitor Well Number(s) MW108B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	S.U.	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.3 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW108B

**A.MW108B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning /begin\_date/ and lasting through midnight /end\_date/ the permittee will monitor Well Number(s) MW108B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.015 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium, Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW108B

**A.MW108B MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning /begin\_date/ and lasting through midnight /end\_date/ the permittee will monitor Well Number(s) MW108B (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

<u>Monitoring Well Characteristic</u>	<u>Monitoring Requirements</u>					<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>				
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l 1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01090 - (Zinc, Dissolved (as Zn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.004 Max. Daily	mg/l 1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l 1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW108B

## B. SCHEDULE OF COMPLIANCE

### 1. The permittee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :

03 months after Issuance: The permittee shall submit a plan of action that identifies the courses of action to be taken by the permittee that will result in compliance with the final effluent limitations for boron at Outlet 006.

06 months after Issuance: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron at Outlet 006.

09 months after Issuance: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron at Outlet 006.

12 months after Issuance: The permittee shall complete any studies, complete any designing or engineering, obtain any necessary funding, and commence implementation of any action specified in the latest revision of the plan of action for compliance in order to achieve compliance with the for boron at Outlet 006.

The permittee shall also submit a progress report which summarizes actions taken and additional actions to be taken in the future to achieve compliance with the final effluent limitations for boron at Outlet 006.

12 months after Issuance: The permittee shall complete assessment of Corrective Action for arsenic in groundwater per Section D.2.c and 33 CSR 1, Section 4.11.e. Upon completion of the assessment the permittee shall discuss the results in a public meeting with interested and affected parties per 33 CSR 1, Section 4.11.e.4.

15 months after Issuance: The permittee shall begin the construction of any upgrades or system modifications necessary to comply with the final effluent limitations for boron at Outlet 006.

The permittee shall also submit a progress report which summarizes actions taken and additional actions to be taken in the future to achieve compliance with the final effluent limitations for boron at Outlet 006.

18 months after Issuance: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron at Outlet 006.

18 months after Issuance: The permittee shall select a remedy for arsenic in groundwater and incorporate the remedy into the permit per a major permit modification application.

21 months after Issuance: The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for boron at Outlet 006.

24 months after Issuance: The permittee shall complete the construction of any necessary upgrades or system modifications and shall comply with the final effluent limitations for boron at Outlet 006.

### 2. Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.

## Section C - Other Requirements

1. No additional disposal of waste materials may be undertaken.
3. Reporting
  - a. Monitoring reports for the inspectable units referenced on page 2 of this permit shall be submitted to the agency's electronic monitoring report system and shall be received no later than the twentieth (20) day following the end of the reporting period.
  - b. Annual report. An annual report is to be submitted for the previous calendar year to the addresses indicated in Condition C.10 before September 30 of the following year and shall include the following information:
    - (1) Summary of the previous year's monitoring activities.
    - (2) A brief narrative describing the status of the facility which shall include any remedial activities and routine maintenance at the facility including the cleanout of the leachate detection system lines underlying the surface impoundment required by Condition C.11.
    - (3) The groundwater flow rate and direction required by Condition D.1.c.
4. Colorimetric analytic methods, as specified in 40CFR Part 136, shall not be utilized to determine total recoverable metals concentrations (see Appendix A, Section III.3)
5. The limitations for pH referenced in Section A.006 are 6.0 Standard Units minimum and 9.0 Standard Units maximum.
6. The permittee shall inspect prior to the spring and fall planting seasons the vegetative cover of the landfill surface depicted on Drawing C7550011 of Permit Application No. WV0050776 dated November 19, 2007, and the vegetative cover of the landfill surface depicted on Figure 2 of Permit Application No. WV0112160 dated February 17, 2006. Areas that are deficient of vegetative cover shall be re-seeded to establish a satisfactory stand of vegetation if a 90% or greater cover of perennial grasses or legumes has not been established.
7. The permittee shall quarterly examine the landfill surfaces referenced in Condition C.6 for: 1) evidence of cracking or erosion which could allow waters to enter solid waste deposits, and 2) evidence of settling of solid waste causing ponding of surface water. Surfaces which have cracked, eroded, or settled, shall be repaired by any necessary regrading, additions of cover material, and re-vegetation activities. Erosional areas exceeding one foot in depth shall be reclaimed by November of each year. At a minimum, reclamation measures to be undertaken include placement of soil materials within the areas of erosion to the elevation of the surrounding ground surface, establishment of positive drainage, placement of sediment control devices, and establishment of a vegetative cover meeting the requirements referenced in Condition C.6.
8. The permittee shall maintain in good operating condition all existing sediment and erosion control structures. Settled solids shall be removed from the surface impoundment when these solids accumulate to 60% of the structure's total capacity or when re-suspension of solids begins, whichever occurs first.
9. The following activities are prohibited unless specifically approved by permit modification.
  - a. Use of the facility for agricultural purposes.
  - b. Establishment or construction of any buildings.
10. Submission of information other than the reports referenced in Condition C.3.a. shall be sent to the following addresses:

Director  
Div. of Water & Waste Mgmt.  
601 57th St. SE  
Charleston, West Virginia 25304  
Attention: Kolby Sutphin, Geologist
11. The permittee shall annually utilize a water jet cleanout device or equivalent equipment to clean the leachate detection system lines underlying the surface impoundment.
12. The permittee is authorized to excavate coal combustion by-products in accordance with the following stipulations:
  - a. Excavation activities shall not disturb the leachate collection system.

## Section C - Other Requirements

12. b. The area to be excavated shall be minimized.
  - c. The drainage slope of the area to be excavated shall be maintained.
  - d. Benching within the area to be excavated shall be maintained.
  - i. Concurrent with the Annual Report required by Condition C.3.(b), the quantity and type of coal combustion by-products excavated during the prior year shall be provided.
  - e. In areas where final soil cover must be removed, said cover shall be replaced, regraded and revegetated. Soil cover shall achieve a minimum thickness of twelve inches, regraded slopes shall not exceed 3H:1V between benches and a 90% vegetative cover consisting of perennial grasses or legumes shall be established.
  - f. Erosion and sedimentation control structures, such as silt fencing, shall be utilized to control runoff from areas to be excavated. Said structures shall be routinely examined for accumulated sediment. Accumulated sediment shall be removed in a timely manner in order to maximize the efficiency of the erosion and sedimentation control structures.
  - g. Appropriate notifications will be provided to the addresses indicated in Condition C.10 in accordance with Section 5.5.b.4.C. of Title 33, Series 1, Solid Waste Management Rule.
  - h. The location of areas where coal combustion by-products were excavated during the prior year shall be indicated on the topographic map referenced in Condition C.3.b.(3). Cross-sections showing the volume of areas excavated shall also be provided.
13. The permittee shall semi-annually obtain grab samples of leachate discharging from the leak detection sump depicted on Drawing C7550018 and the 3" plastic leachate pipe depicted on Drawing C7550011 which shall be analyzed as required by Sections A.LM1 and A.LM2, respectively. One hundred twenty (120) days shall transpire between sampling events at locations LM1 and LM2.
  14. The permittee shall prevent the establishment of trees and shrubs upon the embankment of the surface impoundment.
  15. The permittee shall annually after the summer growing season cut vegetation within the landfill collection and diversion ditches and within the landfill haul road collection and diversion ditches to within six (6) inches of the ground surface and subsequently remove the vegetation. Concurrently, vegetative materials located adjacent to said ditches which either obscure their view or jeopardize their integrity shall be trimmed or removed.
  16. Any "not detected (ND)" sampling result obtained by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and shall be reported on the DMR as less than the MDL used (<MDL). The permittee shall not report a sampling result as Zero or "ND" or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL). When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use the actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.
  17. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA approved Test Method with a listed method detection level equal to or less than the method detection level referenced below. Regardless, it is recognized that detection levels can vary from sample matrix to matrix and from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

**Section C - Other Requirements**

17. a.	Parameter	EPA Method No.	Method Detection Level (ug/l)
	Copper, Total Recoverable	200.8	0.5
	Lead, Total Recoverable	200.8	0.6
	Zinc, Total Recoverable	200.8	1.8
	Nickel, Total Recoverable	200.8	0.5
	Arsenic, Total	200.8	1.4
	Thallium, Total Recoverable	200.8	0.3
	Antimony, Total Recoverable	200.8	0.4
	Selenium, Total Recoverable	200.8	1.0
	Beryllium, Total Recoverable	200.8	0.44**
	Chromium, Hexavalent	218.6	0.6
	Mercury, Total*	245.7	0.0018
	Mercury, Total*	1631	0.0002
	Molybdenum, Total Recoverable	200.8	0.3

\*The permittee may use either Method 245.7 or Method 1631 for the analysis of mercury.

\*\* First Energy Beta Laboratory

18. The permittee shall annually perform chronic toxicity tests as described below, on the effluent from Outlet 006:

- a. Such testing will determine if an appropriate dilute effluent sample affects the survival or reproduction of the test species. Eight-hour flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing. An appropriate statistical test shall be used to determine whether differences in control and effluent data are significant.
  - i) The permittee shall conduct a three brood (6-8 days) Ceriodaphnia Dubia survival and reproduction toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confident level in survival or reproduction between Ceriodaphnia Dubia exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or less than 60% of surviving females in controls produced their third brood, that test shall be repeated.
  - ii) The permittee shall conduct a 7-day Pimephales Promelas fathead minnow larval survival and growth toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confidence level in survival or growth between fathead minnows exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or average dry weight of surviving controls was less than 0.25 mg/l that test shall be repeated.
- b. Results shall be reported in terms of chronic toxic units (TUc) and shall be submitted with the corresponding monthly Discharge Monitoring Report (DMR).

TUc= 100/NOEC or NOEL

Where NOEC (or NOEL) is No Observed Effect Concentration (or Level), which is expressed as percent (volume) effluent in dilution water.

For Example, if NOEC is 10%, TUc= 100/10=10

When the effluent demonstrates no toxicity at 100% effluent (no observed effect), the permittee may report zero TUc.

- c. The monitoring required, herein, shall be conducted in accordance with the sample collection, preservation, and analytical procedures specified in 40 CFR 136.
- g. The Director may impose further requirements should the chronic effluent toxicity testing results demonstrate noncompliance.



### Section C - Other Requirements

18. d. In addition to the monitoring data reporting requirements of 40 CFR 136, the exact age of the test organisms at the initiation of the test shall be reported. Values of less than or equal to 24 hours are acceptable for *Pimephales Promelas*, fathead minnow. The range of the *Ceriodaphnia Dubia* used must be reported as a range in hours. All *Ceriodaphnia Dubia* used in the test must be less than 24 hours of age at test commencement. The age difference between the youngest and oldest *Ceriodaphnia Dubia* used in the test must not exceed eight (8) hours.
- e. The chronic toxicity testing shall be performed on a 1/year basis. The first acute toxicity testing shall be carried out within three (3) months from the effective date of the permit for Outlet 006. There shall be a minimum of three (3) months between semi-annual sampling events.
- f. If chronic effluent toxicity testing shows noncompliance with the specified limitations prescribed in Section A, the permittee shall immediately resample and test the effluent. This shall be performed within 30 days of the initial demonstration of noncompliance with the whole effluent toxicity discharge limitations prescribed herein. Copies of the retesting results shall be provided to the Director immediately upon completion of the test.

If the second test shows compliance, chronic effluent toxicity testing shall continue in accordance with the requirements, as prescribed herein. However, if the second test shows noncompliance, the Director shall impose further requirements, as may be necessary, in order to obtain compliance with the chronic effluent toxicity discharge limitations.

## Section D - Groundwater Monitoring

### 1. Monitoring Well Reporting

- a. Permittee shall submit 1/6 months as required by Condition C.3.a monitoring well reports indicating in terms of concentration the values of the parameters listed in Sections A.MW101, MW103, A.MW104, A.MW105, and A.MW106. Metals concentrations shall be reported as dissolved metals except Total Chromium. Concentrations for constituents for which groundwater standards are referenced in Title 47, Series 12 of the West Virginia Legislative Rules dated March 18, 2011, shall be determined utilizing a method detection limit less than said Standards.
- b. Groundwater shall be sampled in accordance with the Groundwater Sampling Protocol referenced in Application No. WV0050776. Values for pH, Temperature, and Specific Conductance obtained during purging shall be retained as stated in Appendix A, Section III.6. One hundred twenty (120) days must transpire between sampling events.
- c. The permittee shall determine annually the flow rate and direction of groundwater flow.
- d. The permittee shall establish background groundwater quality for each of the monitored parameters indicated in Section A.MW101 of this permit by sampling well MW101. The minimum number of samples used to establish background groundwater quality must be consistent with the appropriate statistical procedures referenced in Section 4.11.a.4 of Title 33, Series 1, Solid Waste Management Rule. This background groundwater quality shall be used as the Groundwater Quality Standard (GWQS) for all down-gradient wells for this site for the term of the permit.
- e. The permittee shall determine whether there is a statistically significant increase over background levels for each parameter listed in Section A. of this permit less Specific Conductance, Total Suspended Solids and Temperature and pH. To determine such, the permittee shall compare groundwater quality in monitoring wells MW103, MW104, MW105, and MW106 with well MW101. Said statistical determinations shall be submitted concurrently with the Semi-Annual Monitoring Well Report. If the permittee determines that there is a statistically significant increase over background for any parameter listed in Section A. of this permit less Specific Conductance, Total Suspended Solids, Temperature, and pH, they shall indicate concurrent with the submission of the monitoring well reports which parameters have shown the statistically significant increase and comply with the requirements of Section 4.11.b.4 of Title 33 CSR1.
- f. The permittee must employ one of the following statistical procedures in combination with the appropriate sampling requirements to determine a statistically significant increase:
  - (1) A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;
  - (2) An analysis of variance based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;
  - (3) Tolerance or prediction interval procedure in which a tolerance interval for each constituent is established from the distribution of the background data, and the level of each constituent is established from the distribution of the background data, and the level of each constituent in each down gradient well is compared to the upper tolerance or prediction limit; or
  - (4) A control chart approach that gives control limits for each constituent.
- g. The Director may establish an alternative sampling procedure and statistical test for any of the constituents listed in the permit, as required to protect human health and the environment.
- h. If there is a statistically significant increase over background concentrations for any groundwater parameter listed in Section A, less pH, Total Suspended Solids, Specific Conductance, and Temperature, the permittee must do the following:

## Section D - Groundwater Monitoring

1. h.
    - (1) Within fourteen (14) days, place a notice in the operating record indicating which constituents have shown statistically significant changes from background levels and notify the Secretary that this notice was placed in the operating record.
    - (2) Within a thirty (30) day period of said finding, the permittee shall repeat the sampling of the groundwater in the appropriate monitoring well(s) in accordance with the requirements of this permit.
    - (3) If the repeat sampling indicates that there is not a statistically significant increase over the background for the respective pollutant, the permittee shall continue sampling as required by this permit.
    - (4) If the repeat sampling confirms that a statistically significant increase over background levels has occurred, the permittee must establish and implement a Phase II assessment monitoring program meeting the requirements of 33 CSR 1, Section 4.11.c within ninety (90) days of said confirmation.
    - (5) If the concentrations of all Phase II constituents are shown to be at or below background values, using the statistical procedures described above for two consecutive sampling events, the permittee must notify the Secretary of this finding and may return to Phase I detection monitoring.
    - (6) If the concentrations of any Phase II constituents are above background values, but all concentrations are below the groundwater protection standards found in Title 47, Series 12, Requirements Governing Groundwater Standards, using the statistical procedures described above, the permittee must continue assessment monitoring in accordance with Phase II requirements.
  - i. The permittee shall not cause a statistically significant increase over the limitations (groundwater standards) found in Section A for the monitoring wells listed in Section D.2.b. Should a limitation be exceeded, the permittee shall provide the following:
    - (1) Within ninety (90) days of a finding that any of the constituents listed in the permit have been detected at a statistically significant level exceeding the groundwater protection standards, the permittee must initiate an assessment of corrective measures in accordance with 33 CSR 1, Section 4.11.e.
    - (2) Based on the results of the corrective measures assessment conducted pursuant to 33 CSR 1, Section 4.11.e, the permittee must select a remedy that, at a minimum, meets the standards listed in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. The permittee must notify the Secretary, within fourteen (14) days of selecting a remedy, by sending him or her a report describing the selected remedy, stating that it has been placed in the operating record, and describing how it meets the standards in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. Further, the permittee shall specify as part of the selected remedy a schedule(s) for initiating and completing remedial activities in accordance with 33 CSR 1, Section 4.11.f.4.
    - (3) The Secretary may determine that remediation of a Phase II constituent is not necessary if the permittee can successfully demonstrate to the Secretary conditions found in 33 CSR 1, Section 4.11.f.5. However, any determination by the Secretary pursuant to 33 CSR 1, Section 4.11.f.5 cannot affect the authority of the state to require the permittee to undertake source control measures or other measures that may be necessary to eliminate or minimize further releases to the groundwater, to prevent exposure to the groundwater, or to remediate the groundwater to concentrations that are technically practicable and significantly reduce threats to human health or the environment.
    - (4) In accordance with 33 CSR 1, Section 4.11.g, the permittee shall implement the corrective action program based on the schedule required by 33 CSR 1, Sections 4.11.f.4 and 4.11.g.
2. Based on a review of the historic Groundwater Monitoring Program at the site, the following monitoring wells / parameters shall be monitored under the following Phase per 33 CSR 1, Section 4.11:
- a. **DETECTION PROGRAM - PHASE I**  
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Per 33 CSR 1, Section 4.11.b.4 the permittee shall comply with Section D.1.i upon an exceedance of the respective background in each respective monitoring well. Upon moving a Phase I parameter to Phase II parameter the permittee shall submit a major permit modification to revise Section D of the permit.

**Section D - Groundwater Monitoring**

2. a. The following wells shall be evaluated under a detection monitoring program via interwell statistics for all parameters in Section A of the permit:

- (1) Down Gradient Wells: MW103, MW104, MW105, and MW106  
 Up Gradient Wells: MW101

b. ASSESSMENT MONITORING PROGRAM - PHASE II

Monitoring Well	Parameter	Background (mg/L)	MCL or PAL (mg/L)
-----			
MW103, MW104, MW105, MW106			
	Barium	0.084	2.0
	Boron***	13.1	N/A
	Nickel	0.0043	0.39*
	Solids (Total Dissolved)	809.654	2387**
	Sulfate	219.576	1170**
MW103, MW104, MW106			
	Beryllium (Dissolved)	0.000045	0.004
	Manganese***	2.29	N/A
MW103, MW105, MW106			
	Chromium	0.000261	0.05
MW103, MW106			
	Iron	5.05	14*
MW106			
	Arsenic	0.0292	0.01

\* A deviation and human health based preventative action limit (PAL) has been granted for iron and nickel at the site per 47 CSR 57, Section 5 and groundwater standard established per 33 CSR 1, Section 4.11.c.9. The standard is based on the minimum of WV DeMinimus Standards and EPA Region III Default Risk Based Concentrations, or an agency approved site-specific value such as a human health based secondary MCL or other approved risk based value.

\*\* A deviation and preventative action limit (PAL) has been granted for TDS and sulfate at the site per 47 CSR 57, Section 5. An appropriate human health based criteria could not be identified for these parameters therefore continued monitoring under the Phase II program is required to ensure additional contamination remains at pre-2022 observed levels. If the permittee determines that further release of these contaminants is occurring either because multiple subsequent exceedences of the PAL are observed with a statistical increasing trend, then the permittee must make every reasonable effort to identify, remove or mitigate the source of such contamination and strive where practical to reduce the level of contamination over time to support drinking water use of downgradient groundwater.

\*\*\* The permittee may choose to compare the result of a Lower Confidence Limit (LCL) calculation per EPA's "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities" dated March 2009 for boron and manganese for compliance purposes. The individual groundwater result shall be reported on the eDMR. If the individual result is above the groundwater standard in Section A of the permit but the LCL is below the groundwater standard in Section A of the permit. The permittee may attach justification to the eDMR, or provide notification separately, to remain in Phase II monitoring.

The permittee may request deletion of monitoring parameters if it can be shown via contained waste and/or leachate analysis that the constituents are not present in or derived from the waste contained in the solid waste management unit.

**Section D - Groundwater Monitoring**

2. c. **ASSESSMENT OF CORRECTIVE ACTION**  
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The following items, investigated in the Groundwater Assessment Report dated September 2021, concerning Assessment of Corrective Action require additional investigation at the site and shall be submitted per Section B of the permit:

- (1) The permittee shall identify all downgradient receptors of groundwater from areas impacted by arsenic at MW-106. Based on the Groundwater Assessment Report, groundwater flow direction is west / southwest and downward into mine voids. Identification of receptors of groundwater shall be completed in these directions and additional downgradient areas if future data or evaluations support justification for additional areas.
- (2) The permittee shall complete delineation of arsenic impacts to groundwater from arsenic at MW-106. The Groundwater Assessment Report indicated that groundwater flow is likely west / southwest in the areas of MW-106 and MW-107B. It does not appear that delineation wells were installed in the southwesterly downgradient direction of MW-106. Since there are potentially downgradient receptors in this direction (i.e. residential homes and Parker Run), delineation in this direction is necessary prior to remedy selection. In addition, the limited potentiometric data also indicates that groundwater potentially flows in the northern / northeasterly direction. The permittee shall assess groundwater flow in this direction or provide justification why it is unlikely that arsenic could migrate to these areas.
- (3) The permittee shall complete Assessment of Corrective Action and discuss the results in a public meeting with interested and affected parties per 33 CSR 1, Section 4.11.e.4. A remedy shall then be selected per 4.11.f. Remedies shall be incorporated into the permit via a major modification application.

d. **CORRECTIVE ACTION PROGRAM**  
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Per 33 CSR 1, Section 4.11 the following wells shall be monitored per the following interim corrective measures as identified in the "Groundwater Assessment Report, Rivesville Ash Landfill, Consent Order No. 9032" dated September 2021 until such time that the following groundwater standards are achieved. At any time, based on the review of monitoring program results, if it appears that the stated goals of the Corrective Measures will not be achieved within the plan timeframes, the permittee shall revise the plan and propose additional corrective action.

Monitoring Well	Parameter	Groundwater Standard
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All Wells in Section A except MW-101

Arsenic	0.01 mg/l	(MCL)
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The permittee shall continue to implement Monitored Natural Attenuation at the closed landfill for arsenic per the "Groundwater Assessment Report, Rivesville Ash Landfill, Consent Order No. 9032" dated September 2021 and the requirements of this permit.

Should groundwater monitoring indicate an increasing trend in two successive monitoring events for the wells/parameters listed in D.2.d, or a semi-annual groundwater report indicates migration of pollutants in downgradient direction, the permittee shall within 90 days re-evaluate corrective measures for that parameter and submit the results to the agency. At a minimum, the evaluation shall determine if active remediation or additional interim measures are necessary to control the source(s) of releases so as to reduce or eliminate further releases of those constituents into the environment and prevent exposure of humans and environmental receptors to remaining wastes.

## **Section D - Groundwater Monitoring**

2. d. (1) Corrective Action shall continue until compliance with the groundwater protection standards established in Section D.2.c have been achieved by demonstrating that concentrations of constituents have not exceeded the groundwater protection standard(s) in all wells for a period of three (3) consecutive years using the statistical procedures and performance standards in paragraphs 33 CSR 1, Sections 4.11.a.7 and 4.11.a.8.

Upon completion of the remedial action the permittee shall make a remedy complete request via a major permit modification to remove the remedial action requirements from the permit and return to a Phase I detection program. Any request shall be certified by a qualified groundwater scientist per 33 CSR 1.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0050776; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0050776; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

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Katheryn Emery, P.E., Director

# Appendix A

## I. MANAGEMENT CONDITIONS:

### 1. Duty to Comply

- a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.
- b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

### 2. 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 apply for a new permit at least 180 days prior to expiration of the permit.

### 3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

### 4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

### 5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

### 6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10, Section 4.6 of the West Virginia Legislative Rules.

### 7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

### 8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

### 9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

### 10. Inspection and Entry

The permittee shall allow the Director, 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 in which an effluent source or activity is located, 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; and
- d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

### 11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 of the Code of West Virginia.

### 12. Water Quality

This discharge shall not cause or materially contribute to: distinctly visible floating or settleable solids, suspended solids, scum, foam or oily slicks; deposits or sludge bank on the bottom; odors in the vicinity of the waters; taste or odor that would adversely affect the designated uses of the affected waters; distinctly visible color which may impair or interfere with the designated uses of the affected waters; and shall not cause a fish or mussel kill. The limitations and conditions in this permit for the discharges identified in this permit are limitations and conditions that are necessary to meet applicable West Virginia water quality standards, Requirements Governing Water Quality Standards 47 CSR 2.

### 13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

### 14. Liabilities

- a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.
- b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- d) Nothing in 1.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.



## II. OPERATION AND MAINTENANCE:

### 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 also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

### 2. Need to Halt or Reduce Activity Not a Defense

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 the permit.

### 3. Bypass

- a) Definitions
- (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
  - (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.
- c)
- (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
  - (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.
- d) Prohibition of bypass
- (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless:
    - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
    - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
    - (C) The permittee submitted notices as required under II.3.c) of this permit.
  - (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

### 4. Upset

- a) Definition. "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. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
  - (2) The permitted facility was at the time being properly operated;
  - (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
  - (4) The permittee complied with any remedial measures required under I.3. of this permit.
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

### 5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

### III. MONITORING AND REPORTING

#### 1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

#### 2. Reporting

- a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.
- b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.
- c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).
- d) Specify frequency of analysis for each parameter, as number of analyses/specified period (e.g., 3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

#### 3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

#### 4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

- a) The date, exact place, and time of sampling or measurement;
- b) The date(s) analyses were performed;
- c) The individual(s) who performed the sampling or measurement;
- d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;
- e) The analytical techniques or methods used, and
- f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

#### 5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

#### 6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original 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 the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

#### 7. Definitions

- a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.
- b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- c) "Maximum daily discharge limitation" means the highest allowable daily discharge.
- d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.
- e) "Grab Sample" is an individual sample collected in less than 15 minutes.
- f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.
- g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.
- h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.
- i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.
- j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.
- k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

## IV. OTHER REPORTING

### 1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11. Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

### 2. Immediate Reporting

- a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- b) The following shall also be reported immediately:
  - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
  - (2) Any upset which exceeds any effluent limitation in the permit; and
  - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit shall be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.
- c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.
- d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

### 3. Reporting Requirements

- a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:
  - (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or
  - (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.
- b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:
  - (1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) One hundred micrograms per liter (100 ug/l);
    - (B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
    - (C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series 10, Title 47.
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;
  - (2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) Five hundred micrograms per liter (500 ug/l);
    - (B) One milligram per liter (1 mg/l) for antimony;
    - (C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.
  - (3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.
  - (4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

### 4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 006 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
50050 (ML-1) RF-B Flow, In Conduit or thru plant Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	Estimated	
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
00400 (ML-1) RF-A pH Year Round	Reported													
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.	N/A	S.U.		1/month	Grab	
01114 (ML-1) RF-B Lead, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
01094 (ML-1) RF-B Zinc, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
01113 (ML-1) RF-A Cadmium, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0.0007 Avg. Monthly	0.0011 Max. Daily	N/A	mg/l		1/month	Grab	

220

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

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 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 006  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01032 (ML-1) RF-B Chromium, Hexavalent Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
71900 (ML-1) RF-A Mercury, Total (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	0.0096 Avg. Monthly	0.02 Max. Daily	N/A	ug/l		1/month	Grab
01074 (ML-1) RF-B Nickel, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00900 (ML-1) RF-B Hardness, Total (as CaCO3) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
01104 (ML-1) RF-A Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	0.23 Avg. Monthly	0.8 Max. Daily	N/A	mg/l		1/month	Grab
00980 (ML-1) RF-A Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	0.89 Avg. Monthly	2.6 Max. Daily	N/A	mg/l		1/month	Grab

221

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 DISCHARGE MONITORING REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 006  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

222

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
61426 (ML-1) RF-D Chronic Tox-Ceriodaphnia Dubia Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp	
61428 (ML-1) RF-D Chronic Toxicity - Pimephales Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp	
00978 (ML-1) RF-A Arsenic, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0.01 Avg. Monthly	0.015 Max. Daily	N/A	mg/l		1/month	Grab	
01147 (ML-1) RF-B Selenium, Total (as Se) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
01007 (ML-1) RF-B Barium, Total (as Ba) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
70295 (ML-1) RF-B Solids, Total Dissolved (TDS) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	

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Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
01022 (ML-1) RF-A Boron, Total (as B) Year Round Interim (Initial 24 months)	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/month	Grab	
01022 (ML-1) RF-A Boron, Total (as B) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	3.8 Avg. Monthly	7.5 Max. Daily	N/A	mg/l		1/month	Grab	
01062 (ML-1) RF-B Molybdénium, Total (as Mo) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
00722 (ML-1) RF-B Cyanide, Free Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
81020 (ML-1) RF-B Sulfate Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	

223

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 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 006 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL *	Units	N.E.			
00927 (ML-1) RF-B Magnesium, Tot (as Mg) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
01059 (ML-1) RF-B Thallium, Total (as Tl) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
00998 (ML-1) RF-A Beryllium, Total Recoverable Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	0,004 Avg. Monthly	0,0077 Max. Daily	N/A	mg/l		1/month	Grab	
01152 (ML-1) RF-B Total Titanium (as Ti) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	
71870 (ML-1) RF-B Bromide Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab	

224

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM1 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00530 (ML-1) RF-C Total Suspended Solids Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported							N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A		Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
01002 (ML-1) RF-C Arsenic, Total (as As) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01032 (ML-1) RF-C Chromium, Hexavalent Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
71900 (ML-1) RF-C Mercury, Total (as Hg) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01055 (ML-1) RF-C Manganese, Total (as Mn) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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 PERMIT NO.: WV0050776 LM1  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00940 (ML-1) RF-C Chloride (as Cl) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01027 (ML-1) RF-C Cadmium, Total (as Cd) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01042 (ML-1) RF-C Copper, Total (as Cu) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01105 (ML-1) RF-C Aluminum, Total (as Al) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01051 (ML-1) RF-C Lead, Total (as Pb) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01034 (ML-1) RF-C Chromium, Total (as Cr) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

226

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 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01077 (ML-1) RF-C Silver, Total (as Ag) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01012 (ML-1) RF-C Beryllium, Total (as Be) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01147 (ML-1) RF-C Selenium, Total (as Se) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01007 (ML-1) RF-C Barium, Total (as Ba) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
70295 (ML-1) RF-C Solids, Total Dissolved (TDS) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01097 (ML-1) RF-C Antimony, Total (as Sb) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

227

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CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: RIVESVILLE; Marion County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0050776 LM1

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01022 (ML-1) RF-C Boron, Total (as B) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01062 (ML-1) RF-C Molybdenum, Total (as Mo) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00095 (ML-1) RF-C Specific Conductance Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months Grab
01092 (ML-1) RF-C Zinc, Total (as Zn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00916 (ML-1) RF-C Calcium, Total (as Ca) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00680 (ML-1) RF-C Total Organic Carbon Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab

228

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 PERMIT NO.: WV0050776 LM1  
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Parameter		Quantity				Other Units				Measurement Frequency	Sample Type		
				Units	N.E.				CEL*			Units	N.E.
01045 (ML-1) RF-C Iron, Total (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01067 (ML-1) RF-C Nickel, Total (as Ni) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01087 (ML-1) RF-C Vanadium, Total (as V) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
81020 (ML-1) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00927 (ML-1) RF-C Magnesium, Tot (as Mg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01059 (ML-1) RF-C Thallium, Total (as Tl) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Name of Principal Executive Officer	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 a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 LM2  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter	Reported	Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
00530 (ML-1) RF-C Total Suspended Solids Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00400 (ML-1) RF-C pH Year Round	Reported													
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab	
01002 (ML-1) RF-C Arsenic, Total (as As) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01032 (ML-1) RF-C Chromium, Hexavalent Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
71900 (ML-1) RF-C Mercury, Total (as Hg) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01055 (ML-1) RF-C Manganese, Total (as Mn) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

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 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 LEACHATE ANALYSIS REPORT

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 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 LM2  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
00940 (ML-1) RF-C Chloride (as Cl) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01027 (ML-1) RF-C Cadmium, Total (as Cd) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01042 (ML-1) RF-C Copper, Total (as Cu) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01105 (ML-1) RF-C Aluminum, Total (as Al) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01051 (ML-1) RF-C Lead, Total (as Pb) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01034 (ML-1) RF-C Chromium, Total (as Cr) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 LM2  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01077 (ML-1) RF-C Silver, Total (as Ag) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01012 (ML-1) RF-C Beryllium, Total (as Be) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01147 (ML-1) RF-C Selenium, Total (as Se) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01007 (ML-1) RF-C Barium, Total (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
70295 (ML-1) RF-C Solids, Total Dissolved (TDS) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01097 (ML-1) RF-C Antimony, Total (as Sb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab

232

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO      CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County      CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776      LM2      \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_      INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01022 (ML-1) RF-C Boron, Total (as B) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01062 (ML-1) RF-C Molybdenum, Total (as Mo) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00095 (ML-1) RF-C Specific Conductance Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab
01092 (ML-1) RF-C Zinc, Total (as Zn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00916 (ML-1) RF-C Calcium, Total (as Ca) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00680 (ML-1) RF-C Total Organic Carbon Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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 LEACHATE ANALYSIS REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 LM2 \_\_\_\_\_  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01045 (ML-1) RF-C Iron, Total (as Fe) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01067 (ML-1) RF-C Nickel, Total (as Ni) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01087 (ML-1) RF-C Vanadium, Total (as V) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
81020 (ML-1) RF-C Sulfate Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00927 (ML-1) RF-C Magnesium, Tot (as Mg) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01059 (ML-1) RF-C Thallium, Total (as Tl) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

234

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PQ CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW101  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-O) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab

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STATE OF WEST VIRGINIA  
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 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW101  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	DEG.F		1/6 months Grab

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236

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW101  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units						Measurement Frequency	Sample Type		
				Units	N.E.				CEL*	Units			N.E.	
81020 (ML-O) RF-C Sulfate Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab	
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent	<input type="text"/>

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PC  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW101  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	

238

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STATE OF WEST VIRGINIA  
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 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO  
 LOCATION OF FACILITY: RIVESVILLE; Marion County  
 PERMIT NO.: WV0050776 MW103  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00400 (ML-O) RF-C pH Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months Grab
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	0.05 Max. Daily	N/A	mg/l		1/6 months Grab
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	2387 Max. Daily	N/A	mg/l		1/6 months Grab
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer  	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 a fine and imprisonment for knowing violations.	Date Completed
		Signature of Principal Executive Officer or Authorized Agent
Title of Officer  		

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: Rivesville Power Station Closed CCR Landfill MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW103 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter	Quantity	Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	Rpt Only Avg. Monthly	2 Max. Daily	N/A	mg/l		1/6 months	Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	Rpt Only Avg. Monthly	14 Max. Daily	N/A	mg/l		1/6 months	Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	Rpt Only Avg. Monthly	2.29 Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported										
	Permit Limits	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

240



STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW103 \_\_\_\_\_  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units				Measurement Frequency	Sample Type		
				Units	N.E.				CEL*			Units	N.E.
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	1170 Max. Daily	N/A	mg/l		1/6 months	Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	13:1 Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW103 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	0.39 Max. Daily	N/A	mg/l		1/6 months Grab
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	4 Max. Daily	N/A	ug/l		1/6 months Grab
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab

242

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW104 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units	N.E.			
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00400 (ML-O) RF-C pH Year Round	Reported													
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab	
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	2387 Max. Daily	N/A	mg/l		1/6 months	Grab	
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab	
00095 (ML-O) RF-C Specific Conductance Year Round	Reported													
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab	

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW104 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	2 Max. Daily	N/A	mg/l		1/6 months Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	2.29 Max. Daily	N/A	mg/l		1/6 months Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	DEG.F		1/6 months Grab

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: RIVESVILLE; Marion County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0050776 MW104

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	1170 Max. Daily	N/A	mg/l		1/6 months	Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	13.1 Max. Daily	N/A	mg/l		1/6 months	Grab

245

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW104  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
01090 (ML-O) RF-C Zinc, Dissolved (as Zn) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01065 (ML-O) RF-C Nickel, Dissolved (as Ni) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	0.39 Max. Daily					
01057 (ML-O) RF-C Thallium, Dissolved (as Tl) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01010 (ML-O) RF-C Dissolved Beryllium Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	0.004 Max. Daily					
01095 (ML-O) RF-C Antimony, Dissolved (as Sb) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

246

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STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW105 \_\_\_\_\_  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-O) RF-C pH Year Round	Reported							N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A		Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
01034 (ML-O) RF-C Chromium, Total (as Cr) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	0.05 Max. Daily					
70295 (ML-O) RF-C Solids, Total Dissolved (TDS) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	2387 Max. Daily					
01106 (ML-O) RF-C Aluminum, Diss. (as Al) Year Round	Reported							N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00095 (ML-O) RF-C Specific Conductance Year Round	Reported							N/A	UMHO/CM		1/6 months	Grab
	Permit Limits	N/A	N/A		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer  		

STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW105  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity		Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	2 Max. Daily	N/A	mg/l		1/6 months	Grab
01040 (ML-O) RF-C Copper, Diss. (as Cu) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01049 (ML-O) RF-C Lead, Dissolved (as Pb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab

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Title of Officer:		Signature of Principal Executive Officer or Authorized Agent

248



STATE OF WEST VIRGINIA  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
 MONITORING WELL REPORT

FACILITY NAME: (Rivesville Power Station Closed CCR Landfill) MONONGAHELA PC CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: RIVESVILLE; Marion County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0050776 MW105  
 WASTeload FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
				Units	N.E.							
81020 (ML-O) RF-C Sulfate Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	1170 Max. Daily	N/A	mg/l		1/6 months Grab
01000 (ML-O) RF-C Arsenic, Dissolved (as As) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01025 (ML-O) RF-C Cadmium, Dissolved (as Cd) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
01145 (ML-O) RF-C Selenium, Diss. (as Se) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months Grab
71890 (ML-O) RF-C Mercury, Dissolved (as Hg) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/6 months Grab
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	13.1 Max. Daily	N/A	mg/l		1/6 months Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer _____  Title of Officer _____	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 a fine and imprisonment for knowing violations.	Date Completed _____  Signature of Principal Executive Officer or Authorized Agent _____
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**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration						
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur		
WV0050776	006	00000 - No Flow	12/31/2019	Normal												
WV0050776	006	00400 - pH	01/31/2019	Normal						8.1		8.1	S.U.		0	
			02/28/2019	Normal						7.6		8.0	S.U.		0	
			03/31/2019	Normal						8.1		8.1	S.U.		0	
			04/30/2019	Normal						8.1		8.1	S.U.		0	
			05/31/2019	Normal						8.1		8.1	S.U.		0	
			06/30/2019	Normal						8.0		8.1	S.U.		0	
			07/31/2019	Normal						8.0		8.0	S.U.		0	
			08/31/2019	Normal						7.9		7.9	S.U.		0	
			09/30/2019	Normal						7.9		8.2	S.U.		0	
			10/31/2019	Normal						8.2		8.2	S.U.		0	
			11/30/2019	Normal						8.0		8.0	S.U.		0	
			01/31/2020	Normal						7.3		8.2	S.U.		0	
			02/29/2020	Normal						7.2		7.9	S.U.		0	
			03/31/2020	Normal						7.6		8.2	S.U.		0	
			04/30/2020	Normal						7.8		8.1	S.U.		0	
			05/31/2020	Normal						7.5		7.8	S.U.		0	
			06/30/2020	Normal						7.7		7.7	S.U.		0	
			07/31/2020	Normal						8.8		8.8	S.U.		0	
			08/31/2020	Normal						9.0		9.0	S.U.		0	
			09/30/2020	Normal						7.5		7.7	S.U.		0	
			10/31/2020	Normal						7.2		7.2	S.U.		0	
			11/30/2020	Normal						7.6		7.6	S.U.		0	
			12/31/2020	Normal						7.5		8.0	S.U.		0	
			01/31/2021	Normal						6.6		8.0	S.U.		0	
			02/28/2021	Normal						8.0		8.1	S.U.		0	
			03/31/2021	Normal						7.1		8.4	S.U.		0	
			04/30/2021	Normal						7.6		7.6	S.U.		0	
			05/31/2021	Normal						7.5		7.5	S.U.		0	
			06/30/2021	Normal						7.4		7.4	S.U.		0	
			07/31/2021	Normal						7.9		7.9	S.U.		0	
			08/31/2021	Normal						7.8		7.8	S.U.		0	
			09/30/2021	Normal						7.3		7.3	S.U.		0	
			10/31/2021	Normal						7.4		7.4	S.U.		0	

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

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( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00400 - pH	11/30/2021	Normal						7.9		7.9	S.U.	0
			12/31/2021	Normal						8.1		8.1	S.U.	0
			01/31/2022	Normal						7.0		7.0	S.U.	0
			02/28/2022	Normal						7.5		7.5	S.U.	0
			03/31/2022	Normal						8.0		8.1	S.U.	0
			04/30/2022	Normal						8.4		8.4	S.U.	0
			05/31/2022	Normal						8.4		8.4	S.U.	0
			06/30/2022	Normal						8.2		8.2	S.U.	0
			07/31/2022	Normal						8.3		8.3	S.U.	0
			08/31/2022	Normal						7.8		7.8	S.U.	0
			09/30/2022	Normal						7.6		8.0	S.U.	0
			10/31/2022	Normal						7.8		7.8	S.U.	0
			11/30/2022	Normal						8.2		8.2	S.U.	0
			01/31/2023	Normal						7.6		7.9	S.U.	0
			02/28/2023	Normal						8.0		8.0	S.U.	0
			03/31/2023	Normal						8.1		8.3	S.U.	0
			04/30/2023	Normal						8.1		8.1	S.U.	0
			05/31/2023	Normal						8.1		8.1	S.U.	0
			06/30/2023	Normal						8.1		8.1	S.U.	0
07/31/2023	Normal						8.1		8.1	S.U.	0			
08/31/2023	Normal						8.3		8.3	S.U.	0			
09/30/2023	Normal						7.7		8.0	S.U.	0			
10/31/2023	Normal						8.1		8.1	S.U.	0			
11/30/2023	Normal						7.9		7.9	S.U.	0			
12/31/2023	Normal						7.7		8.0	S.U.	0			
01/31/2024	Normal						7.9		7.9	S.U.	0			
WV0050776	006	00530 - Total Suspended Solids	01/31/2019	Normal						<4		mg/l	0	
			02/28/2019	Normal						<4		mg/l	0	
			03/31/2019	Normal						5		mg/l	0	
			04/30/2019	Normal						<4		mg/l	0	
			05/31/2019	Normal						<4		mg/l	0	
			06/30/2019	Normal						5		mg/l	0	
			07/31/2019	Normal						<4		mg/l	0	
			08/31/2019	Normal						<4		mg/l	0	

251

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 ) Permit.ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00530 - Total Suspended Solids	09/30/2019	Normal						<4	mg/l	0		
			10/31/2019	Normal						25	mg/l	0		
			11/30/2019	Normal						7	mg/l	0		
			01/31/2020	Normal						14	mg/l	0		
			02/29/2020	Normal						13	mg/l	0		
			03/31/2020	Normal						14	mg/l	0		
			04/30/2020	Normal						<4	mg/l	0		
			05/31/2020	Normal						<4	mg/l	0		
			06/30/2020	Normal						<4	mg/l	0		
			07/31/2020	Normal						<4	mg/l	0		
			08/31/2020	Normal						6	mg/l	0		
			09/30/2020	Normal						<4	mg/l	0		
			10/31/2020	Normal						5	mg/l	0		
			11/30/2020	Normal						5	mg/l	0		
			12/31/2020	Normal						<4	mg/l	0		
			01/31/2021	Normal						5	mg/l	0		
			02/28/2021	Normal						<4	mg/l	0		
			03/31/2021	Normal						<4	mg/l	0		
			04/30/2021	Normal						<4	mg/l	0		
			05/31/2021	Normal						<4	mg/l	0		
			06/30/2021	Normal						<4	mg/l	0		
			07/31/2021	Normal						<4	mg/l	0		
			08/31/2021	Normal						<4	mg/l	0		
			09/30/2021	Normal						6	mg/l	0		
			10/31/2021	Normal						<4	mg/l	0		
			11/30/2021	Normal						<4	mg/l	0		
			12/31/2021	Normal						<4	mg/l	0		
			01/31/2022	Normal						7	mg/l	0		
			02/28/2022	Normal						<4	mg/l	0		
			03/31/2022	Normal						7	mg/l	0		
04/30/2022	Normal						<4	mg/l	0					
05/31/2022	Normal						<4	mg/l	0					
06/30/2022	Normal						6	mg/l	0					
07/31/2022	Normal						<4	mg/l	0					

Sampling Frequency not matching for Highlighted rows.

252

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"  
 ( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit.	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00530 - Total Suspended Solids	08/31/2022	Normal							<4	mg/l	0	
			09/30/2022	Normal							<4	mg/l	0	
			10/31/2022	Normal								<4	mg/l	0
			11/30/2022	Normal								<4	mg/l	0
			01/31/2023	Normal								10	mg/l	0
			02/28/2023	Normal								4	mg/l	0
			03/31/2023	Normal								<4	mg/l	0
			04/30/2023	Normal								8	mg/l	0
			05/31/2023	Normal								<4	mg/l	0
			06/30/2023	Normal								<4	mg/l	0
			07/31/2023	Normal								<4	mg/l	0
			08/31/2023	Normal								<4	mg/l	0
			09/30/2023	Normal								<4	mg/l	0
			10/31/2023	Normal								<4	mg/l	0
			11/30/2023	Normal								<4	mg/l	0
			12/31/2023	Normal								6	mg/l	0
01/31/2024	Normal								9	mg/l	0			
WV0050776	006	00900 - Hardness, Total (as CaCO <sub>3</sub> )	01/31/2019	Normal							510	mg/l	0	
			02/28/2019	Normal							535	mg/l	0	
			03/31/2019	Normal								517	mg/l	0
			04/30/2019	Normal								688	mg/l	0
			05/31/2019	Normal								640	mg/l	0
			06/30/2019	Normal								621	mg/l	0
			07/31/2019	Normal								666	mg/l	0
			08/31/2019	Normal								601	mg/l	0
			09/30/2019	Normal								829	mg/l	0
			10/31/2019	Normal								877	mg/l	0
			11/30/2019	Normal								948	mg/l	0
			01/31/2020	Normal								287	mg/l	0
			02/29/2020	Normal								477	mg/l	0
			03/31/2020	Normal								530	mg/l	0
			04/30/2020	Normal								520	mg/l	0
			05/31/2020	Normal								315	mg/l	0
06/30/2020	Normal								468	mg/l	0			

253

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"  
 ( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00900 - Hardness, Total (as CaCO <sub>3</sub> )	07/31/2020	Normal							624	mg/l	0	
			08/31/2020	Normal							762	mg/l	0	
			09/30/2020	Normal							736	mg/l	0	
			10/31/2020	Normal							729	mg/l	0	
			11/30/2020	Normal							1010	mg/l	0	
			12/31/2020	Normal							967	mg/l	0	
			01/31/2021	Normal							271	mg/l	0	
			02/28/2021	Normal							654	mg/l	0	
			03/31/2021	Normal							191	mg/l	0	
			04/30/2021	Normal							647	mg/l	0	
			05/31/2021	Normal							439	mg/l	0	
			06/30/2021	Normal							311	mg/l	0	
			07/31/2021	Normal							395	mg/l	0	
			08/31/2021	Normal							545	mg/l	0	
			09/30/2021	Normal							352	mg/l	0	
			10/31/2021	Normal							603	mg/l	0	
			11/30/2021	Normal							671	mg/l	0	
			12/31/2021	Normal							718	mg/l	0	
			01/31/2022	Normal							395	mg/l	0	
			02/28/2022	Normal							236	mg/l	0	
			03/31/2022	Normal							450	mg/l	0	
			04/30/2022	Normal							655	mg/l	0	
			05/31/2022	Normal							571	mg/l	0	
			06/30/2022	Normal							510	mg/l	0	
			07/31/2022	Normal							648	mg/l	0	
			08/31/2022	Normal							560	mg/l	0	
			09/30/2022	Normal							446	mg/l	0	
			10/31/2022	Normal							496	mg/l	0	
			11/30/2022	Normal							467	mg/l	0	
			01/31/2023	Normal							234	mg/l	0	
			02/28/2023	Normal							510	mg/l	0	
			03/31/2023	Normal							434	mg/l	0	
			04/30/2023	Normal							471	mg/l	0	
			05/31/2023	Normal							521	mg/l	0	

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**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration					
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur	
WV0050776	006	00900 - Hardness, Total (as CaCO <sub>3</sub> )	06/30/2023	Normal						500	mg/l	0			
			07/31/2023	Normal						634	mg/l	0			
			08/31/2023	Normal						756	mg/l	0			
			09/30/2023	Normal						593	mg/l	0			
			10/31/2023	Normal						778	mg/l	0			
			11/30/2023	Normal						802	mg/l	0			
			12/31/2023	Normal						553	mg/l	0			
			01/31/2024	Normal						454	mg/l	0			
			WV0050776	006	00978 - Arsenic, Total Recoverable	01/31/2019	Normal					0.002367	0.002367	mg/l	0
						02/28/2019	Normal					0.004577	0.004577	mg/l	0
03/31/2019	Normal								0.002235	0.002235	mg/l	0			
04/30/2019	Normal								0.002433	0.002433	mg/l	0			
05/31/2019	Normal								0.005566	0.005566	mg/l	0			
06/30/2019	Normal								0.006793	0.007539	mg/l	0			
07/31/2019	Normal								0.004770	0.004770	mg/l	0			
08/31/2019	Normal								0.008903	0.008903	mg/l	0			
09/30/2019	Normal								0.005039	0.005039	mg/l	0			
10/31/2019	Normal								0.006844	0.006844	mg/l	0			
11/30/2019	Normal								0.005220	0.005220	mg/l	0			
01/31/2020	Normal								0.003375	0.003375	mg/l	0			
02/29/2020	Normal								0.002915	0.002915	mg/l	0			
03/31/2020	Normal								0.002883	0.002883	mg/l	0			
04/30/2020	Normal								0.002062	0.002062	mg/l	0			
05/31/2020	Normal								0.001797	0.001797	mg/l	0			
06/30/2020	Normal								0.002923	0.002923	mg/l	0			
07/31/2020	Normal								0.004388	0.004388	mg/l	0			
08/31/2020	Normal								0.004380	0.004380	mg/l	0			
09/30/2020	Normal								0.005375	0.005375	mg/l	0			
10/31/2020	Normal								0.003691	0.003691	mg/l	0			
11/30/2020	Normal								0.003653	0.003653	mg/l	0			
12/31/2020	Normal					0.003072	0.003072	mg/l	0						
01/31/2021	Normal					0.001882	0.001882	mg/l	0						
02/28/2021	Normal					0.00163	0.00163	mg/l	0						
03/31/2021	Normal					0.002121	0.002121	mg/l	0						

Sampling Frequency not matching for Highlighted rows.

255

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00978 - Arsenic, Total Recoverable	04/30/2021	Normal						0.00173	0.00173	mg/l	0	
			05/31/2021	Normal						0.002451	0.002451	mg/l	0	
			06/30/2021	Normal							0.00459	0.00459	mg/l	0
			07/31/2021	Normal							0.00904	0.00904	mg/l	0
			08/31/2021	Normal							0.00787	0.00787	mg/l	0
			09/30/2021	Normal							0.00751	0.00751	mg/l	0
			10/31/2021	Normal							0.006284	0.006284	mg/l	0
			11/30/2021	Normal							0.00387	0.00387	mg/l	0
			12/31/2021	Normal							0.00296	0.00296	mg/l	0
			01/31/2022	Normal							0.00215	0.00215	mg/l	0
			02/28/2022	Normal							0.00085	0.00085	mg/l	0
			03/31/2022	Normal							0.00116	0.00116	mg/l	0
			04/30/2022	Normal							0.001454	0.001454	mg/l	0
			05/31/2022	Normal							0.00151	0.00151	mg/l	0
			06/30/2022	Normal							0.00349	0.00349	mg/l	0
			07/31/2022	Normal							0.00456	0.00456	mg/l	0
			08/31/2022	Normal							0.00445	0.00445	mg/l	0
			09/30/2022	Normal							0.00307	0.00307	mg/l	0
			10/31/2022	Normal							0.00327	0.00327	mg/l	0
			11/30/2022	Normal							0.00278	0.00278	mg/l	0
			01/31/2023	Normal							0.00213	0.00213	mg/l	0
			02/28/2023	Normal							0.00131	0.00131	mg/l	0
			03/31/2023	Normal							0.00135	0.00135	mg/l	0
			04/30/2023	Normal							0.00132	0.00132	mg/l	0
05/31/2023	Normal							0.00172	0.00172	mg/l	0			
06/30/2023	Normal							0.00282	0.00282	mg/l	0			
07/31/2023	Normal							0.00414	0.00414	mg/l	0			
08/31/2023	Normal							0.00418	0.00418	mg/l	0			
09/30/2023	Normal							0.00428	0.00428	mg/l	0			
10/31/2023	Normal							0.00336	0.00336	mg/l	0			
11/30/2023	Normal							0.00238	0.00238	mg/l	0			
12/31/2023	Normal							0.0014	0.0014	mg/l	0			
01/31/2024	Normal							0.0014	0.0014	mg/l	0			
WV0050776	006	00980 - Iron, Total Recoverable	01/31/2019	Normal						0.4389	mg/l	0		

256

Sampling Frequency not matching for Highlighted rows.



**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00980 - Iron, Total Recoverable	02/28/2019	Normal						0.2986	mg/l	0		
			03/31/2019	Normal						0.3381	mg/l	0		
			04/30/2019	Normal						0.0500	mg/l	0		
			05/31/2019	Normal						0.3009	mg/l	0		
			06/30/2019	Normal						0.1181	mg/l	0		
			07/31/2019	Normal						0.0315	mg/l	0		
			08/31/2019	Normal						0.0782	mg/l	0		
			09/30/2019	Normal						0.2205	mg/l	0		
			10/31/2019	Normal						0.2185	mg/l	0		
			11/30/2019	Normal						0.2548	mg/l	0		
			01/31/2020	Normal						0.6079	mg/l	0		
			02/29/2020	Normal						0.9014	mg/l	0		
			03/31/2020	Normal						0.8366	mg/l	0		
			04/30/2020	Normal						0.2790	mg/l	0		
			05/31/2020	Normal						0.4049	mg/l	0		
			06/30/2020	Normal						0.2224	mg/l	0		
			07/31/2020	Normal						0.0114	mg/l	0		
			08/31/2020	Normal						<0.00471	mg/l	0		
			09/30/2020	Normal						0.0202	mg/l	0		
			10/31/2020	Normal						0.0356	mg/l	0		
			11/30/2020	Normal						0.1200	mg/l	0		
			12/31/2020	Normal						0.1951	mg/l	0		
			01/31/2021	Normal						0.80870	mg/l	0		
			02/28/2021	Normal						0.39890	mg/l	0		
			03/31/2021	Normal						0.7336	mg/l	0		
			04/30/2021	Normal						0.2400	mg/l	0		
			05/31/2021	Normal						0.2977	mg/l	0		
			06/30/2021	Normal						0.0940	mg/l	0		
			07/31/2021	Normal						<0.0250	mg/l	0		
			08/31/2021	Normal						0.0280	mg/l	0		
09/30/2021	Normal						0.3533	mg/l	0					
10/31/2021	Normal						0.3316	mg/l	0					
11/30/2021	Normal						0.1627	mg/l	0					
12/31/2021	Normal						0.1666	mg/l	0					

Sampling Frequency not matching for Highlighted rows.

257

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00980 - Iron, Total Recoverable	01/31/2022	Normal						1.0000	mg/l	0		
			02/28/2022	Normal					0.3191	mg/l	0			
			03/31/2022	Normal					0.5080	mg/l	0			
			04/30/2022	Normal					<0.0250	mg/l	0			
			05/31/2022	Normal					0.0648	mg/l	0			
			06/30/2022	Normal					0.0392	mg/l	0			
			07/31/2022	Normal					<0.0250	mg/l	0			
			08/31/2022	Normal					0.1734	mg/l	0			
			09/30/2022	Normal					0.1424	mg/l	0			
			10/31/2022	Normal					0.2086	mg/l	0			
			11/30/2022	Normal					0.1269	mg/l	0			
			01/31/2023	Normal					1.2366	mg/l	0			
			02/28/2023	Normal					0.5841	mg/l	0			
			03/31/2023	Normal					0.6426	mg/l	0			
			04/30/2023	Normal					0.2931	mg/l	0			
			05/31/2023	Normal					0.1016	mg/l	0			
			06/30/2023	Normal					0.0629	mg/l	0			
			07/31/2023	Normal					<0.03775	mg/l	0			
			08/31/2023	Normal					<0.03775	mg/l	0			
			09/30/2023	Normal					0.0528	mg/l	0			
10/31/2023	Normal					0.1015	mg/l	0						
11/30/2023	Normal					0.1540	mg/l	0						
12/31/2023	Normal					0.3364	mg/l	0						
01/31/2024	Normal					0.7797	mg/l	0						
WV0050776	006	00998 - Beryllium, Total Recoverab	01/31/2019	Normal					<0.00022	mg/l	0			
			02/28/2019	Normal					0.000397	mg/l	0			
			03/31/2019	Normal					0.000452	mg/l	0			
			04/30/2019	Normal					0.000846	mg/l	0			
			05/31/2019	Normal					0.000488	mg/l	0			
			06/30/2019	Normal					0.001266	mg/l	0			
			07/31/2019	Normal					0.000965	mg/l	0			
			08/31/2019	Normal					0.000932	mg/l	0			
			09/30/2019	Normal					0.001428	mg/l	0			
			10/31/2019	Normal					0.001472	mg/l	0			

Sampling Frequency not matching for Highlighted rows.

258

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	00998 - Beryllium, Total Recoverab	11/30/2019	Normal						0.001838	mg/l	0		
			01/31/2020	Normal						0.000604	mg/l	0		
			02/29/2020	Normal						0.000703	mg/l	0		
			03/31/2020	Normal						0.000462	mg/l	0		
			04/30/2020	Normal						0.000397	mg/l	0		
			05/31/2020	Normal						0.000237	mg/l	0		
			06/30/2020	Normal						0.000433	mg/l	0		
			07/31/2020	Normal						0.000405	mg/l	0		
			08/31/2020	Normal						0.001460	mg/l	0		
			09/30/2020	Normal						0.000504	mg/l	0		
			10/31/2020	Normal						0.000402	mg/l	0		
			11/30/2020	Normal						0.000716	mg/l	0		
			12/31/2020	Normal						0.000490	mg/l	0		
			01/31/2021	Normal						0.000143	mg/l	0		
			02/28/2021	Normal						<0.00022	mg/l	0		
			03/31/2021	Normal						0.000070	mg/l	0		
			04/30/2021	Normal						<0.000088	mg/l	0		
			05/31/2021	Normal						<0.00044	mg/l	0		
			06/30/2021	Normal						<0.000088	mg/l	0		
			07/31/2021	Normal						<0.000088	mg/l	0		
			08/31/2021	Normal						<0.000088	mg/l	0		
			09/30/2021	Normal						0.000278	mg/l	0		
			10/31/2021	Normal						0.000300	mg/l	0		
			11/30/2021	Normal						<0.000088	mg/l	0		
			12/31/2021	Normal						<0.000044	mg/l	0		
			01/31/2022	Normal						<0.000088	mg/l	0		
			02/28/2022	Normal						0.000101	mg/l	0		
			03/31/2022	Normal						0.000193	mg/l	0		
			04/30/2022	Normal						<0.000088	mg/l	0		
			05/31/2022	Normal						<0.000044	mg/l	0		
06/30/2022	Normal						<0.000088	mg/l	0					
07/31/2022	Normal						<0.000088	mg/l	0					
08/31/2022	Normal						<0.000088	mg/l	0					
09/30/2022	Normal						<0.000088	mg/l	0					

Sampling Frequency not matching for Highlighted rows.

259

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration					
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur	
WV0050776	006	00998 - Beryllium, Total Recoverab	10/31/2022	Normal								<0.000088	mg/l	0	
			11/30/2022	Normal									<0.000088	mg/l	0
			01/31/2023	Normal									<0.000088	mg/l	0
			02/28/2023	Normal									<0.000088	mg/l	0
			03/31/2023	Normal									<0.000088	mg/l	0
			04/30/2023	Normal									<0.000088	mg/l	0
			05/31/2023	Normal									0.000142	mg/l	0
			06/30/2023	Normal									<0.000088	mg/l	0
			07/31/2023	Normal									<0.000088	mg/l	0
			08/31/2023	Normal									<0.000088	mg/l	0
			09/30/2023	Normal									<0.000088	mg/l	0
			10/31/2023	Normal									<0.000088	mg/l	0
			11/30/2023	Normal									<0.000088	mg/l	0
12/31/2023	Normal									<0.00015	mg/l	0			
01/31/2024	Normal									<0.00006	mg/l	0			
WV0050776	006	01007 - Barium, Total (as Ba)	01/31/2019	Normal								0.0324	mg/l	0	
			02/28/2019	Normal								0.0358	mg/l	0	
			03/31/2019	Normal								0.0364	mg/l	0	
			04/30/2019	Normal								0.0272	mg/l	0	
			05/31/2019	Normal								0.0240	mg/l	0	
			06/30/2019	Normal								0.0312	mg/l	0	
			07/31/2019	Normal								0.0242	mg/l	0	
			08/31/2019	Normal								0.0297	mg/l	0	
			09/30/2019	Normal								0.0344	mg/l	0	
			10/31/2019	Normal								0.0372	mg/l	0	
			11/30/2019	Normal								0.0270	mg/l	0	
			01/31/2020	Normal								0.0248	mg/l	0	
			02/29/2020	Normal								0.0307	mg/l	0	
03/31/2020	Normal								0.0359	mg/l	0				
04/30/2020	Normal								0.0302	mg/l	0				
05/31/2020	Normal								0.0252	mg/l	0				
06/30/2020	Normal								0.0308	mg/l	0				
07/31/2020	Normal								0.0222	mg/l	0				
08/31/2020	Normal								0.0281	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01007 - Barium, Total (as Ba)	09/30/2020	Normal							0.0444	mg/l	0	
			10/31/2020	Normal							0.0411	mg/l	0	
			11/30/2020	Normal							0.0372	mg/l	0	
			12/31/2020	Normal							0.0319	mg/l	0	
			01/31/2021	Normal							0.01850	mg/l	0	
			02/28/2021	Normal							0.02834	mg/l	0	
			03/31/2021	Normal							0.02058	mg/l	0	
			04/30/2021	Normal							0.02552	mg/l	0	
			05/31/2021	Normal							0.0212	mg/l	0	
			06/30/2021	Normal							0.02093	mg/l	0	
			07/31/2021	Normal							0.03839	mg/l	0	
			08/31/2021	Normal							0.03667	mg/l	0	
			09/30/2021	Normal							0.02120	mg/l	0	
			10/31/2021	Normal							0.03060	mg/l	0	
			11/30/2021	Normal							0.02336	mg/l	0	
			12/31/2021	Normal							0.01903	mg/l	0	
			01/31/2022	Normal							0.02227	mg/l	0	
			02/28/2022	Normal							0.02477	mg/l	0	
			03/31/2022	Normal							0.02428	mg/l	0	
			04/30/2022	Normal							0.01197	mg/l	0	
			05/31/2022	Normal							0.00964	mg/l	0	
			06/30/2022	Normal							0.02314	mg/l	0	
			07/31/2022	Normal							0.03025	mg/l	0	
			08/31/2022	Normal							0.03443	mg/l	0	
			09/30/2022	Normal							0.01435	mg/l	0	
			10/31/2022	Normal							0.01576	mg/l	0	
			11/30/2022	Normal							0.01147	mg/l	0	
			01/31/2023	Normal							0.02210	mg/l	0	
			02/28/2023	Normal							0.0287	mg/l	0	
			03/31/2023	Normal							0.02290	mg/l	0	
04/30/2023	Normal							0.02084	mg/l	0				
05/31/2023	Normal							0.01065	mg/l	0				
06/30/2023	Normal							0.01921	mg/l	0				
07/31/2023	Normal							0.02364	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

261

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01007 - Barium, Total (as Ba)	08/31/2023	Normal							0.02713	mg/l	0	
			09/30/2023	Normal							0.02300	mg/l	0	
			10/31/2023	Normal							0.02678	mg/l	0	
			11/30/2023	Normal							0.02102	mg/l	0	
			12/31/2023	Normal							0.0169	mg/l	0	
			01/31/2024	Normal							0.01866	mg/l	0	
WV0050776	006	01022 - Boron, Total (as B)	01/31/2019	Normal							2.7200	mg/l	0	
			02/28/2019	Normal							3.1500	mg/l	0	
			03/31/2019	Normal							2.6400	mg/l	0	
			04/30/2019	Normal							5.2600	mg/l	0	
			05/31/2019	Normal							4.3600	mg/l	0	
			06/30/2019	Normal							6.4900	mg/l	0	
			07/31/2019	Normal							7.4800	mg/l	0	
			08/31/2019	Normal							6.2600	mg/l	0	
			09/30/2019	Normal							10.4610	mg/l	0	
			10/31/2019	Normal							11.5900	mg/l	0	
			11/30/2019	Normal							11.6020	mg/l	0	
			01/31/2020	Normal							2.3700	mg/l	0	
			02/29/2020	Normal							3.3100	mg/l	0	
			03/31/2020	Normal							3.4800	mg/l	0	
			04/30/2020	Normal							2.9800	mg/l	0	
			05/31/2020	Normal							1.4400	mg/l	0	
			06/30/2020	Normal							2.8200	mg/l	0	
			07/31/2020	Normal							6.8300	mg/l	0	
			08/31/2020	Normal							9.9400	mg/l	0	
			09/30/2020	Normal							9.6100	mg/l	0	
			10/31/2020	Normal							9.5000	mg/l	0	
			11/30/2020	Normal							12.9430	mg/l	0	
			12/31/2020	Normal							11.5650	mg/l	0	
			01/31/2021	Normal							2.3800	mg/l	0	
02/28/2021	Normal							6.920	mg/l	0				
03/31/2021	Normal							1.33	mg/l	0				
04/30/2021	Normal							5.5900	mg/l	0				
05/31/2021	Normal							3.920	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

262

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01022 - Boron, Total (as B)	06/30/2021	Normal							2.100	mg/l	0	
			07/31/2021	Normal							3.020	mg/l	0	
			08/31/2021	Normal							5.830	mg/l	0	
			09/30/2021	Normal							3.670	mg/l	0	
			10/31/2021	Normal							6.30	mg/l	0	
			11/30/2021	Normal							7.630	mg/l	0	
			12/31/2021	Normal							8.030	mg/l	0	
			01/31/2022	Normal							3.360	mg/l	0	
			02/28/2022	Normal							1.0100	mg/l	0	
			03/31/2022	Normal							2.620	mg/l	0	
			04/30/2022	Normal							5.620	mg/l	0	
			05/31/2022	Normal							4.930	mg/l	0	
			06/30/2022	Normal							4.351	mg/l	0	
			07/31/2022	Normal							7.450	mg/l	0	
			08/31/2022	Normal							5.807	mg/l	0	
			09/30/2022	Normal							4.525	mg/l	0	
			10/31/2022	Normal							5.908	mg/l	0	
			11/30/2022	Normal							4.905	mg/l	0	
			01/31/2023	Normal							1.780	mg/l	0	
			02/28/2023	Normal							3.090	mg/l	0	
			03/31/2023	Normal							2.860	mg/l	0	
			04/30/2023	Normal							3.405	mg/l	0	
			05/31/2023	Normal							5.494	mg/l	0	
			06/30/2023	Normal							5.390	mg/l	0	
			07/31/2023	Normal							7.5400	mg/l	0	
			08/31/2023	Normal							9.280	mg/l	0	
			09/30/2023	Normal							6.950	mg/l	0	
			10/31/2023	Normal							9.200	mg/l	0	
			11/30/2023	Normal							9.480	mg/l	0	
			12/31/2023	Normal							6.260	mg/l	0	
01/31/2024	Normal							4.390	mg/l	0				
WV0050776	006	01032 - Chromium, Hexavalent	01/31/2019	Normal						<0.003	<0.003	mg/l	0	
			02/28/2019	Normal						<0.003	<0.003	mg/l	0	
			03/31/2019	Normal							<0.003	<0.003	mg/l	0

263

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01032 - Chromium, Hexavalent	04/30/2019	Normal						<0.003	<0.003	mg/l	0	
			05/31/2019	Normal						0.004	0.004	mg/l	0	
			06/30/2019	Normal						<0.003	<0.003	mg/l	0	
			07/31/2019	Normal						<0.003	<0.003	mg/l	0	
			08/31/2019	Normal						<0.003	<0.003	mg/l	0	
			09/30/2019	Normal						<0.003	<0.003	mg/l	0	
			10/31/2019	Normal						<0.003	<0.003	mg/l	0	
			11/30/2019	Normal						<0.003	<0.003	mg/l	0	
			01/31/2020	Normal						<0.003	<0.003	mg/l	0	
			02/29/2020	Normal						<0.003	<0.003	mg/l	0	
			03/31/2020	Normal						<0.003	<0.003	mg/l	0	
			04/30/2020	Normal						<0.003	<0.003	mg/l	0	
			05/31/2020	Normal						<0.003	<0.003	mg/l	0	
			06/30/2020	Normal						<0.003	<0.003	mg/l	0	
			07/31/2020	Normal						<0.003	<0.003	mg/l	0	
			08/31/2020	Normal						<0.003	<0.003	mg/l	0	
			09/30/2020	Normal						<0.003	<0.003	mg/l	0	
			10/31/2020	Normal						<0.003	<0.003	mg/l	0	
			11/30/2020	Normal						<0.003	<0.003	mg/l	0	
			12/31/2020	Normal						<0.003	<0.003	mg/l	0	
			01/31/2021	Normal						<0.003	<0.003	mg/l	0	
			02/28/2021	Normal						<0.003	<0.003	mg/l	0	
			03/31/2021	Normal						0.003	0.003	mg/l	0	
			04/30/2021	Normal						<0.003	<0.003	mg/l	0	
			05/31/2021	Normal						<0.003	<0.003	mg/l	0	
			06/30/2021	Normal						<0.003	<0.003	mg/l	0	
			07/31/2021	Normal						<0.003	<0.003	mg/l	0	
			08/31/2021	Normal						<0.003	<0.003	mg/l	0	
			09/30/2021	Normal						<0.003	<0.003	mg/l	0	
			10/31/2021	Normal						<0.003	<0.003	mg/l	0	
11/30/2021	Normal						<0.003	<0.003	mg/l	0				
12/31/2021	Normal						<0.003	<0.003	mg/l	0				
01/31/2022	Normal						<0.003	<0.003	mg/l	0				
02/28/2022	Normal						<0.003	<0.003	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

264



**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01032 - Chromium, Hexavalent	03/31/2022	Normal						<0.003	<0.003	mg/l	0	
			04/30/2022	Normal						<0.003	<0.003	mg/l	0	
			05/31/2022	Normal							<0.003	<0.003	mg/l	0
			06/30/2022	Normal							<0.003	<0.003	mg/l	0
			07/31/2022	Normal							<0.003	<0.003	mg/l	0
			08/31/2022	Normal							<0.003	<0.003	mg/l	0
			09/30/2022	Normal							0.003	0.003	mg/l	0
			10/31/2022	Normal							0.003	0.003	mg/l	0
			11/30/2022	Normal							<0.003	<0.003	mg/l	0
			01/31/2023	Normal							<0.003	<0.003	mg/l	0
			02/28/2023	Normal							0.003	0.003	mg/l	0
			03/31/2023	Normal							<0.0002	<0.0002	mg/l	0
			04/30/2023	Normal							<0.0002	<0.0002	mg/l	0
			05/31/2023	Normal							<0.0002	<0.0002	mg/l	0
			06/30/2023	Normal							<0.0002	<0.0002	mg/l	0
			07/31/2023	Normal							<0.0002	<0.0002	mg/l	0
			08/31/2023	Normal							<0.0002	<0.0002	mg/l	0
			09/30/2023	Normal							<0.0002	<0.0002	mg/l	0
			10/31/2023	Normal							<0.0002	<0.0002	mg/l	0
			11/30/2023	Normal							<0.0002	<0.0002	mg/l	0
12/31/2023	Normal							<0.0002	<0.0002	mg/l	0			
01/31/2024	Normal							<0.0002	<0.0002	mg/l	0			
WV0050776	006	01059 - Thallium, Total (as TI)	01/31/2019	Normal						<0.000175	<0.000175	mg/l	0	
			02/28/2019	Normal						<0.000175	<0.000175	mg/l	0	
			03/31/2019	Normal							<0.000175	<0.000175	mg/l	0
			04/30/2019	Normal							<0.000175	<0.000175	mg/l	0
			05/31/2019	Normal							<0.000175	<0.000175	mg/l	0
			06/30/2019	Normal							<0.000175	<0.000175	mg/l	0
			07/31/2019	Normal							<0.000175	<0.000175	mg/l	0
			08/31/2019	Normal							<0.000175	<0.000175	mg/l	0
			09/30/2019	Normal							<0.000175	<0.000175	mg/l	0
			10/31/2019	Normal							<0.000175	<0.000175	mg/l	0
			11/30/2019	Normal							<0.000175	<0.000175	mg/l	0
			01/31/2020	Normal							<0.000175	<0.000175	mg/l	0

Sampling Frequency not matching for Highlighted rows.

265

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit ID	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01059 - Thallium, Total (as Tl)	02/29/2020	Normal						<0.000175	<0.000175	mg/l	0	
			03/31/2020	Normal						<0.000175	<0.000175	mg/l	0	
			04/30/2020	Normal							<0.000175	<0.000175	mg/l	0
			05/31/2020	Normal							<0.000175	<0.000175	mg/l	0
			06/30/2020	Normal							<0.000175	<0.000175	mg/l	0
			07/31/2020	Normal							<0.000175	<0.000175	mg/l	0
			08/31/2020	Normal							<0.000175	<0.000175	mg/l	0
			09/30/2020	Normal							<0.000175	<0.000175	mg/l	0
			10/31/2020	Normal							<0.000175	<0.000175	mg/l	0
			11/30/2020	Normal							<0.000175	<0.000175	mg/l	0
			12/31/2020	Normal							<0.000175	<0.000175	mg/l	0
			01/31/2021	Normal							<0.000035	<0.000035	mg/l	0
			02/28/2021	Normal							<0.000035	<0.000035	mg/l	0
			03/31/2021	Normal							<0.000035	<0.000035	mg/l	0
			04/30/2021	Normal							<0.00016	<0.00016	mg/l	0
			05/31/2021	Normal							<0.00016	<0.00016	mg/l	0
			06/30/2021	Normal							<0.00016	<0.00016	mg/l	0
			07/31/2021	Normal							<0.00016	<0.00016	mg/l	0
			08/31/2021	Normal							<0.00016	<0.00016	mg/l	0
			09/30/2021	Normal							<0.00016	<0.00016	mg/l	0
			10/31/2021	Normal							<0.00016	<0.00016	mg/l	0
			11/30/2021	Normal							<0.00016	<0.00016	mg/l	0
			12/31/2021	Normal							<0.00016	<0.00016	mg/l	0
			01/31/2022	Normal							<0.00016	<0.00016	mg/l	0
02/28/2022	Normal							<0.00016	<0.00016	mg/l	0			
03/31/2022	Normal							<0.00016	<0.00016	mg/l	0			
04/30/2022	Normal							<0.00016	<0.00016	mg/l	0			
05/31/2022	Normal							<0.00016	<0.00016	mg/l	0			
06/30/2022	Normal							<0.00016	<0.00016	mg/l	0			
07/31/2022	Normal							<0.00016	<0.00016	mg/l	0			
08/31/2022	Normal							<0.00016	<0.00016	mg/l	0			
09/30/2022	Normal							<0.00016	<0.00016	mg/l	0			
10/31/2022	Normal							<0.00016	<0.00016	mg/l	0			
11/30/2022	Normal							<0.00016	<0.00016	mg/l	0			

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01059 - Thallium, Total (as Tl)	01/31/2023	Normal						<0.00016	<0.00016	mg/l	0	
			02/28/2023	Normal						<0.00016	<0.00016	mg/l	0	
			03/31/2023	Normal						<0.00016	<0.00016	mg/l	0	
			04/30/2023	Normal						<0.00016	<0.00016	mg/l	0	
			05/31/2023	Normal						<0.00016	<0.00016	mg/l	0	
			06/30/2023	Normal						<0.00016	<0.00016	mg/l	0	
			07/31/2023	Normal						<0.00016	<0.00016	mg/l	0	
			08/31/2023	Normal						<0.00016	<0.00016	mg/l	0	
			09/30/2023	Normal						<0.00016	<0.00016	mg/l	0	
			10/31/2023	Normal						<0.00016	<0.00016	mg/l	0	
			11/30/2023	Normal						<0.00016	<0.00016	mg/l	0	
			12/31/2023	Normal						<0.0001	<0.0001	mg/l	0	
			01/31/2024	Normal						<0.00004	<0.00004	mg/l	0	
WV0050776	006	01062 - Molybdenum, Total (as Mo)	01/31/2019	Normal							0.1209	mg/l	0	
			02/28/2019	Normal							0.1590	mg/l	0	
			03/31/2019	Normal							0.1349	mg/l	0	
			04/30/2019	Normal							0.2771	mg/l	0	
			05/31/2019	Normal							0.1658	mg/l	0	
			06/30/2019	Normal							0.23833	mg/l	0	
			07/31/2019	Normal							0.2344	mg/l	0	
			08/31/2019	Normal							0.1801	mg/l	0	
			09/30/2019	Normal							0.3277	mg/l	0	
			10/31/2019	Normal							0.3985	mg/l	0	
			11/30/2019	Normal							0.3455	mg/l	0	
			01/31/2020	Normal							0.1206	mg/l	0	
			02/29/2020	Normal							0.1765	mg/l	0	
			03/31/2020	Normal							0.1645	mg/l	0	
			04/30/2020	Normal							0.1590	mg/l	0	
			05/31/2020	Normal							0.0734	mg/l	0	
			06/30/2020	Normal							0.1451	mg/l	0	
07/31/2020	Normal							0.2658	mg/l	0				
08/31/2020	Normal							0.3499	mg/l	0				
09/30/2020	Normal							0.3385	mg/l	0				
10/31/2020	Normal							0.3117	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

267

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01062 - Molybdenum, Total (as Mo)	11/30/2020	Normal							0.4459	mg/l	0	
			12/31/2020	Normal							0.4680	mg/l	0	
			01/31/2021	Normal								0.11326	mg/l	0
			02/28/2021	Normal								0.340591	mg/l	0
			03/31/2021	Normal								0.055927	mg/l	0
			04/30/2021	Normal								0.26650	mg/l	0
			05/31/2021	Normal								0.17472	mg/l	0
			06/30/2021	Normal								0.10888	mg/l	0
			07/31/2021	Normal								0.11770	mg/l	0
			08/31/2021	Normal								0.17958	mg/l	0
			09/30/2021	Normal								0.11974	mg/l	0
			10/31/2021	Normal								0.26049	mg/l	0
			11/30/2021	Normal								0.31846	mg/l	0
			12/31/2021	Normal								0.03322	mg/l	0
			01/31/2022	Normal								0.15728	mg/l	0
			02/28/2022	Normal								0.04902	mg/l	0
			03/31/2022	Normal								0.12245	mg/l	0
			04/30/2022	Normal								0.26191	mg/l	0
			05/31/2022	Normal								0.16070	mg/l	0
			06/30/2022	Normal								0.16867	mg/l	0
			07/31/2022	Normal								0.20271	mg/l	0
			08/31/2022	Normal								0.17467	mg/l	0
			09/30/2022	Normal								0.13538	mg/l	0
			10/31/2022	Normal								0.19211	mg/l	0
			11/30/2022	Normal								0.1852	mg/l	0
			01/31/2023	Normal								0.07209	mg/l	0
02/28/2023	Normal								0.1519	mg/l	0			
03/31/2023	Normal								0.13021	mg/l	0			
04/30/2023	Normal								0.14661	mg/l	0			
05/31/2023	Normal								0.22096	mg/l	0			
06/30/2023	Normal								0.19215	mg/l	0			
07/31/2023	Normal								0.19121	mg/l	0			
08/31/2023	Normal								0.22551	mg/l	0			
09/30/2023	Normal								0.18723	mg/l	0			

Sampling Frequency not matching for Highlighted rows.

268

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01062 - Molybdenum, Total (as Mo)	10/31/2023	Normal							0.31002	mg/l	0	
			11/30/2023	Normal							0.33618	mg/l	0	
			12/31/2023	Normal							0.22610	mg/l	0	
			01/31/2024	Normal							0.17251	mg/l	0	
WV0050776	006	01074 - Nickel, Total Recoverable	01/31/2019	Normal							0.0042	mg/l	0	
			02/28/2019	Normal							0.0043	mg/l	0	
			03/31/2019	Normal							<0.002932	mg/l	0	
			04/30/2019	Normal							<0.002932	mg/l	0	
			05/31/2019	Normal							<0.002932	mg/l	0	
			06/30/2019	Normal							<0.008530	mg/l	0	
			07/31/2019	Normal							<0.002932	mg/l	0	
			08/31/2019	Normal							0.0034	mg/l	0	
			09/30/2019	Normal							0.0043	mg/l	0	
			10/31/2019	Normal							<0.002932	mg/l	0	
			11/30/2019	Normal							<0.002932	mg/l	0	
			01/31/2020	Normal							<0.002932	mg/l	0	
			02/29/2020	Normal							0.0076	mg/l	0	
			03/31/2020	Normal							0.0169	mg/l	0	
			04/30/2020	Normal							0.0144	mg/l	0	
			05/31/2020	Normal							0.0084	mg/l	0	
			06/30/2020	Normal							0.0072	mg/l	0	
			07/31/2020	Normal							<0.002932	mg/l	0	
			08/31/2020	Normal							0.0037	mg/l	0	
			09/30/2020	Normal							<0.002932	mg/l	0	
10/31/2020	Normal							<0.002932	mg/l	0				
11/30/2020	Normal							<0.002932	mg/l	0				
12/31/2020	Normal							<0.002932	mg/l	0				
01/31/2021	Normal							0.00390	mg/l	0				
02/28/2021	Normal							<0.00028	mg/l	0				
03/31/2021	Normal							0.00348	mg/l	0				
04/30/2021	Normal							0.00845	mg/l	0				
05/31/2021	Normal							0.00495	mg/l	0				
06/30/2021	Normal							0.00507	mg/l	0				
07/31/2021	Normal							0.00313	mg/l	0				

269

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

270

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01074 - Nickel, Total Recoverable	08/31/2021	Normal							0.00335	mg/l	0	
			09/30/2021	Normal							0.00369	mg/l	0	
			10/31/2021	Normal							0.00501	mg/l	0	
			11/30/2021	Normal							0.00522	mg/l	0	
			12/31/2021	Normal							0.00442	mg/l	0	
			01/31/2022	Normal							0.00574	mg/l	0	
			02/28/2022	Normal							0.00611	mg/l	0	
			03/31/2022	Normal							0.01013	mg/l	0	
			04/30/2022	Normal							0.00596	mg/l	0	
			05/31/2022	Normal							<0.00158	mg/l	0	
			06/30/2022	Normal							0.00616	mg/l	0	
			07/31/2022	Normal							0.00638	mg/l	0	
			08/31/2022	Normal							0.00455	mg/l	0	
			09/30/2022	Normal							0.00348	mg/l	0	
			10/31/2022	Normal							0.00640	mg/l	0	
			11/30/2022	Normal							0.0050	mg/l	0	
			01/31/2023	Normal							0.00465	mg/l	0	
			02/28/2023	Normal							0.00878	mg/l	0	
			03/31/2023	Normal							0.00686	mg/l	0	
			04/30/2023	Normal							0.00600	mg/l	0	
05/31/2023	Normal							0.00561	mg/l	0				
06/30/2023	Normal							0.00426	mg/l	0				
07/31/2023	Normal							0.00501	mg/l	0				
08/31/2023	Normal							0.00654	mg/l	0				
09/30/2023	Normal							0.00386	mg/l	0				
10/31/2023	Normal							0.00517	mg/l	0				
11/30/2023	Normal							0.00626	mg/l	0				
12/31/2023	Normal							0.006	mg/l	0				
01/31/2024	Normal							0.0053	mg/l	0				
WV0050776	006	01094 - Zinc, Total Recoverable	01/31/2019	Normal						0.0050	mg/l	0		
			02/28/2019	Normal						<0.0029	mg/l	0		
			03/31/2019	Normal						<0.0029	mg/l	0		
			04/30/2019	Normal						<0.0029	mg/l	0		
			05/31/2019	Normal						<0.0029	mg/l	0		

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration					
					Min.	Avg.	Max.	Unit	Excur.	Min.	Avg.	Max.	Unit	Excur.	
WV0050776	006	01094 - Zinc, Total Recoverable	06/30/2019	Normal								<0.012	mg/l	0	
			07/31/2019	Normal									<0.0029	mg/l	0
			08/31/2019	Normal									<0.0029	mg/l	0
			09/30/2019	Normal									<0.0029	mg/l	0
			10/31/2019	Normal									<0.0029	mg/l	0
			11/30/2019	Normal									<0.0029	mg/l	0
			01/31/2020	Normal									0.0130	mg/l	0
			02/29/2020	Normal									0.0069	mg/l	0
			03/31/2020	Normal									0.0227	mg/l	0
			04/30/2020	Normal									<0.0029	mg/l	0
			05/31/2020	Normal									0.0031	mg/l	0
			06/30/2020	Normal									<0.0029	mg/l	0
			07/31/2020	Normal									<0.0029	mg/l	0
			08/31/2020	Normal									<0.0029	mg/l	0
			09/30/2020	Normal									<0.0029	mg/l	0
			10/31/2020	Normal									0.0078	mg/l	0
			11/30/2020	Normal									<0.0029	mg/l	0
			12/31/2020	Normal									<0.0029	mg/l	0
			01/31/2021	Normal									<0.00239	mg/l	0
			02/28/2021	Normal									<0.00239	mg/l	0
			03/31/2021	Normal									0.00642	mg/l	0
			04/30/2021	Normal									<0.00668	mg/l	0
			05/31/2021	Normal									<0.0167	mg/l	0
			06/30/2021	Normal									<0.00668	mg/l	0
			07/31/2021	Normal									<0.00668	mg/l	0
			08/31/2021	Normal									<0.00668	mg/l	0
			09/30/2021	Normal									<0.00668	mg/l	0
			10/31/2021	Normal									<0.00668	mg/l	0
			11/30/2021	Normal									<0.00668	mg/l	0
			12/31/2021	Normal									<0.00668	mg/l	0
01/31/2022	Normal									<0.00668	mg/l	0			
02/28/2022	Normal									0.0034	mg/l	0			
03/31/2022	Normal									0.00798	mg/l	0			
04/30/2022	Normal									<0.00668	mg/l	0			

271

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

272

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration					
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur	
WV0050776	006	01094 - Zinc, Total Recoverable	05/31/2022	Normal								<0.00668	mg/l	0	
			06/30/2022	Normal									<0.00668	mg/l	0
			07/31/2022	Normal									<0.00668	mg/l	0
			08/31/2022	Normal									<0.00668	mg/l	0
			09/30/2022	Normal									<0.00668	mg/l	0
			10/31/2022	Normal									<0.00668	mg/l	0
			11/30/2022	Normal									<0.00668	mg/l	0
			01/31/2023	Normal									<0.00668	mg/l	0
			02/28/2023	Normal									<0.00668	mg/l	0
			03/31/2023	Normal									<0.00668	mg/l	0
			04/30/2023	Normal									<0.00668	mg/l	0
			05/31/2023	Normal									<0.00668	mg/l	0
			06/30/2023	Normal									<0.00668	mg/l	0
			07/31/2023	Normal									<0.00668	mg/l	0
			08/31/2023	Normal									<0.00668	mg/l	0
			09/30/2023	Normal									<0.00668	mg/l	0
			10/31/2023	Normal									<0.00668	mg/l	0
			11/30/2023	Normal									<0.00668	mg/l	0
			12/31/2023	Normal									<0.00401	mg/l	0
01/31/2024	Normal									0.0034	mg/l	0			
WV0050776	006	01097 - Antimony, Total (as Sb)	01/31/2019	Normal							<0.00107	<0.00107	mg/l	0	
			02/28/2019	Normal							<0.00107	<0.00107	mg/l	0	
			03/31/2019	Normal								<0.00107	<0.00107	mg/l	0
			04/30/2019	Normal								<0.00107	<0.00107	mg/l	0
			05/31/2019	Normal								<0.00107	<0.00107	mg/l	0
			06/30/2019	Normal								<0.00107	<0.00107	mg/l	0
			07/31/2019	Normal								<0.00107	<0.00107	mg/l	0
			08/31/2019	Normal								<0.00107	<0.00107	mg/l	0
			09/30/2019	Normal								<0.00107	<0.00107	mg/l	0
			10/31/2019	Normal								<0.00107	<0.00107	mg/l	0
			11/30/2019	Normal								<0.00107	<0.00107	mg/l	0
			01/31/2020	Normal								<0.00107	<0.00107	mg/l	0
			02/29/2020	Normal								<0.00107	<0.00107	mg/l	0
03/31/2020	Normal								<0.00107	<0.00107	mg/l	0			

Sampling Frequency not matching for Highlighted rows.



**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01097 - Antimony, Total (as Sb)	04/30/2020	Normal							<0.00107	<0.00107	mg/l	0
			05/31/2020	Normal							<0.00107	<0.00107	mg/l	0
			06/30/2020	Normal							<0.00107	<0.00107	mg/l	0
			07/31/2020	Normal							<0.00107	<0.00107	mg/l	0
			08/31/2020	Normal							<0.00107	<0.00107	mg/l	0
			09/30/2020	Normal							<0.00107	<0.00107	mg/l	0
			10/31/2020	Normal							<0.00107	<0.00107	mg/l	0
			11/30/2020	Normal							<0.00107	<0.00107	mg/l	0
			12/31/2020	Normal							<0.00107	<0.00107	mg/l	0
			01/31/2021	Normal							0.000283	0.000283	mg/l	0
			02/28/2021	Normal							<0.000213	<0.000213	mg/l	0
			03/31/2021	Normal							<0.000213	<0.000213	mg/l	0
			04/30/2021	Normal							<0.003	<0.003	mg/l	0
			05/31/2021	Normal							<0.003	<0.003	mg/l	0
			06/30/2021	Normal							<0.0012	<0.0012	mg/l	0
			07/31/2021	Normal							<0.0012	<0.0012	mg/l	0
			08/31/2021	Normal							<0.0012	<0.0012	mg/l	0
			09/30/2021	Normal							<0.0012	<0.0012	mg/l	0
			10/31/2021	Normal							<0.0012	<0.0012	mg/l	0
			11/30/2021	Normal							<0.0012	<0.0012	mg/l	0
			12/31/2021	Normal							<0.0012	<0.0012	mg/l	0
			01/31/2022	Normal							<0.0012	<0.0012	mg/l	0
			02/28/2022	Normal							<0.0012	<0.0012	mg/l	0
			03/31/2022	Normal							<0.0012	<0.0012	mg/l	0
			04/30/2022	Normal							<0.0012	<0.0012	mg/l	0
			05/31/2022	Normal							<0.0012	<0.0012	mg/l	0
			06/30/2022	Normal							<0.0012	<0.0012	mg/l	0
			07/31/2022	Normal							<0.0012	<0.0012	mg/l	0
			08/31/2022	Normal							<0.0012	<0.0012	mg/l	0
			09/30/2022	Normal							<0.0012	<0.0012	mg/l	0
			10/31/2022	Normal							<0.0012	<0.0012	mg/l	0
			11/30/2022	Normal							<0.0012	<0.0012	mg/l	0
			01/31/2023	Normal							<0.0012	<0.0012	mg/l	0
			02/28/2023	Normal							<0.0012	<0.0012	mg/l	0

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01097 - Antimony, Total (as Sb)	03/31/2023	Normal						<0.0012	<0.0012	mg/l	0	
			04/30/2023	Normal						<0.0012	<0.0012	mg/l	0	
			05/31/2023	Normal						<0.0012	<0.0012	mg/l	0	
			06/30/2023	Normal						<0.0012	<0.0012	mg/l	0	
			07/31/2023	Normal						<0.0012	<0.0012	mg/l	0	
			08/31/2023	Normal						<0.0012	<0.0012	mg/l	0	
			09/30/2023	Normal						<0.0012	<0.0012	mg/l	0	
			10/31/2023	Normal						<0.0012	<0.0012	mg/l	0	
			11/30/2023	Normal						<0.0012	<0.0012	mg/l	0	
			12/31/2023	Normal						<0.00282	<0.00282	mg/l	0	
			01/31/2024	Normal						<0.00113	<0.00113	mg/l	0	
			WV0050776	006	01104 - Aluminum, Total Recoverat	01/31/2019	Normal						0.2340	0.3174
02/28/2019	Normal									0.1532	0.1532	mg/l	0	
03/31/2019	Normal									0.2856	0.2856	mg/l	0	
04/30/2019	Normal									0.0153	0.0153	mg/l	0	
05/31/2019	Normal									0.0415	0.0415	mg/l	0	
06/30/2019	Normal									<0.0186	<0.0186	mg/l	0	
07/31/2019	Normal									<0.006128	<0.006128	mg/l	0	
08/31/2019	Normal									<0.006128	<0.006128	mg/l	0	
09/30/2019	Normal									<0.006128	<0.006128	mg/l	0	
10/31/2019	Normal									0.01777	0.01777	mg/l	0	
11/30/2019	Normal									0.0847	0.0847	mg/l	0	
01/31/2020	Normal									1.8765	2.7000	mg/l	3	
02/29/2020	Normal									1.6285	2.5400	mg/l	3	
03/31/2020	Normal									0.639233	1.1600	mg/l	2	
04/30/2020	Normal									0.389183	0.486100	mg/l	1	
05/31/2020	Normal									0.40	0.5505	mg/l	1	
06/30/2020	Normal									0.2049	0.2049	mg/l	0	
07/31/2020	Normal									0.0287	0.0287	mg/l	0	
08/31/2020	Normal						0.0598	0.0598	mg/l	0				
09/30/2020	Normal						0.0380	0.0380	mg/l	0				
10/31/2020	Normal						0.0179	0.0179	mg/l	0				
11/30/2020	Normal						0.0966	0.0966	mg/l	0				
12/31/2020	Normal						0.1435	0.1435	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

274

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit ID	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration					
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur	
WV0050776	006	01104 - Aluminum, Total Recoverat	01/31/2021	Normal						0.7012	0.7542	mg/l	1		
			02/28/2021	Normal						0.456050	0.576400	mg/l	1		
			03/31/2021	Normal							0.479400	0.516300	mg/l	1	
			04/30/2021	Normal							0.2698	0.2698	mg/l	0	
			05/31/2021	Normal							0.2251	0.2251	mg/l	0	
			06/30/2021	Normal							0.0406	0.0406	mg/l	0	
			07/31/2021	Normal							0.0191	0.0191	mg/l	0	
			08/31/2021	Normal							<0.0135	<0.0135	mg/l	0	
			09/30/2021	Normal							0.1605	0.1605	mg/l	0	
			10/31/2021	Normal							0.0213	0.0213	mg/l	0	
			11/30/2021	Normal							0.0592	0.0592	mg/l	0	
			12/31/2021	Normal							0.0751	0.0751	mg/l	0	
			01/31/2022	Normal							1.2100	1.2100	mg/l	2	
			02/28/2022	Normal							0.6001	0.8484	mg/l	2	
			03/31/2022	Normal								0.4658	0.4658	mg/l	1
			04/30/2022	Normal								0.0174	0.0174	mg/l	0
			05/31/2022	Normal								0.0310	0.0310	mg/l	0
			06/30/2022	Normal								<0.0135	<0.0135	mg/l	0
			07/31/2022	Normal								<0.0135	<0.0135	mg/l	0
			08/31/2022	Normal								<0.0135	<0.0135	mg/l	0
			09/30/2022	Normal								<0.0135	<0.0135	mg/l	0
			10/31/2022	Normal								0.0244	0.0244	mg/l	0
			11/30/2022	Normal								<0.0135	<0.0135	mg/l	0
			01/31/2023	Normal								0.8905	0.8905	mg/l	2
02/28/2023	Normal								0.6757	0.6757	mg/l	1			
03/31/2023	Normal								0.7807	0.7807	mg/l	1			
04/30/2023	Normal								0.2156	0.2156	mg/l	0			
05/31/2023	Normal								0.0654	0.0654	mg/l	0			
06/30/2023	Normal								0.0166	0.0166	mg/l	0			
07/31/2023	Normal								<0.03988	<0.03988	mg/l	0			
08/31/2023	Normal								<0.03988	<0.03988	mg/l	0			
09/30/2023	Normal								<0.03988	<0.03988	mg/l	0			
10/31/2023	Normal								<0.03988	<0.03988	mg/l	0			
11/30/2023	Normal								0.0470	0.0470	mg/l	0			

275

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01104 - Aluminum, Total Recoverab	12/31/2023	Normal						0.5189	0.7252	mg/l	1	
			01/31/2024	Normal						0.4570	0.4570	mg/l	1	
WV0050776	006	01113 - Cadmium, Total Recoverab	01/31/2019	Normal						<0.000675	<0.000675	mg/l	0	
			02/28/2019	Normal						<0.000675	<0.000675	mg/l	0	
			03/31/2019	Normal							<0.000675	<0.000675	mg/l	0
			04/30/2019	Normal							<0.000675	<0.000675	mg/l	0
			05/31/2019	Normal							<0.000675	<0.000675	mg/l	0
			06/30/2019	Normal							<0.000675	<0.000675	mg/l	0
			07/31/2019	Normal							<0.000675	<0.000675	mg/l	0
			08/31/2019	Normal							<0.000675	<0.000675	mg/l	0
			09/30/2019	Normal							<0.000675	<0.000675	mg/l	0
			10/31/2019	Normal							0.000703	0.000703	mg/l	0
			11/30/2019	Normal							<0.000675	<0.000675	mg/l	0
			01/31/2020	Normal							<0.000675	<0.000675	mg/l	0
			02/29/2020	Normal							<0.000675	<0.000675	mg/l	0
			03/31/2020	Normal							<0.000675	<0.000675	mg/l	0
			04/30/2020	Normal							<0.000675	<0.000675	mg/l	0
			05/31/2020	Normal							<0.000675	<0.000675	mg/l	0
			06/30/2020	Normal							<0.000675	<0.000675	mg/l	0
			07/31/2020	Normal							<0.000675	<0.000675	mg/l	0
			08/31/2020	Normal							0.000722	0.000722	mg/l	0
			09/30/2020	Normal							<0.000675	<0.000675	mg/l	0
10/31/2020	Normal							<0.000675	<0.000675	mg/l	0			
11/30/2020	Normal							<0.000675	<0.000675	mg/l	0			
			12/31/2020	Normal					<0.000675	0.000969	mg/l	0		
			01/31/2021	Normal					0.000135	0.000135	mg/l	0		
			02/28/2021	Normal					0.000220	0.000220	mg/l	0		
			03/31/2021	Normal					0.000142	0.000142	mg/l	0		
			04/30/2021	Normal					<0.0004	<0.0004	mg/l	0		
			05/31/2021	Normal					<0.0004	<0.0004	mg/l	0		
			06/30/2021	Normal					<0.0004	<0.0004	mg/l	0		
			07/31/2021	Normal					<0.0004	<0.0004	mg/l	0		
			08/31/2021	Normal					<0.0004	<0.0004	mg/l	0		
			09/30/2021	Normal					<0.0004	<0.0004	mg/l	0		

Sampling Frequency not matching for Highlighted rows.

276

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01113 - Cadmium, Total Recoverab	10/31/2021	Normal						<0.0004	<0.0004	mg/l	0	
			11/30/2021	Normal						0.0005	0.0005	mg/l	0	
			12/31/2021	Normal							<0.0004	<0.0004	mg/l	0
			01/31/2022	Normal							<0.0004	<0.0004	mg/l	0
			02/28/2022	Normal							<0.0004	<0.0004	mg/l	0
			03/31/2022	Normal							<0.0004	<0.0004	mg/l	0
			04/30/2022	Normal							<0.0004	<0.0004	mg/l	0
			05/31/2022	Normal							<0.0004	<0.0004	mg/l	0
			06/30/2022	Normal							0.0002	0.0002	mg/l	0
			07/31/2022	Normal							<0.0004	<0.0004	mg/l	0
			08/31/2022	Normal							<0.0004	<0.0004	mg/l	0
			09/30/2022	Normal							<0.0004	<0.0004	mg/l	0
			10/31/2022	Normal							0.0004	0.0004	mg/l	0
			11/30/2022	Normal							0.0004	0.0004	mg/l	0
			01/31/2023	Normal							<0.0004	<0.0004	mg/l	0
			02/28/2023	Normal							<0.0004	<0.0004	mg/l	0
			03/31/2023	Normal							<0.0004	<0.0004	mg/l	0
			04/30/2023	Normal							<0.0004	<0.0004	mg/l	0
			05/31/2023	Normal							0.0005	0.0005	mg/l	0
			06/30/2023	Normal							<0.0004	<0.0004	mg/l	0
			07/31/2023	Normal							<0.0004	<0.0004	mg/l	0
			08/31/2023	Normal							<0.0004	<0.0004	mg/l	0
			09/30/2023	Normal							<0.0004	<0.0004	mg/l	0
			10/31/2023	Normal							<0.0004	<0.0004	mg/l	0
11/30/2023	Normal							0.0004	0.0004	mg/l	0			
12/31/2023	Normal							<0.0002	<0.0002	mg/l	0			
01/31/2024	Normal							0.00023	0.00023	mg/l	0			
WV0050776	006	01114 - Lead, Total Recoverable	01/31/2019	Normal							<0.00052	mg/l	0	
			02/28/2019	Normal							<0.00052	mg/l	0	
			03/31/2019	Normal							<0.00052	mg/l	0	
			04/30/2019	Normal							<0.00052	mg/l	0	
			05/31/2019	Normal							<0.00052	mg/l	0	
			06/30/2019	Normal							<0.00052	mg/l	0	
			07/31/2019	Normal							<0.00052	mg/l	0	

277

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01114 - Lead, Total Recoverable	08/31/2019	Normal								<0.00052	mg/l	0
			09/30/2019	Normal								<0.00052	mg/l	0
			10/31/2019	Normal								<0.00052	mg/l	0
			11/30/2019	Normal								<0.00052	mg/l	0
			01/31/2020	Normal								0.00054	mg/l	0
			02/29/2020	Normal								<0.00052	mg/l	0
			03/31/2020	Normal								<0.00052	mg/l	0
			04/30/2020	Normal								<0.00052	mg/l	0
			05/31/2020	Normal								<0.00052	mg/l	0
			06/30/2020	Normal								<0.00052	mg/l	0
			07/31/2020	Normal								<0.00052	mg/l	0
			08/31/2020	Normal								<0.00052	mg/l	0
			09/30/2020	Normal								<0.00052	mg/l	0
			10/31/2020	Normal								<0.00052	mg/l	0
			11/30/2020	Normal								<0.00052	mg/l	0
			12/31/2020	Normal								<0.00052	mg/l	0
			01/31/2021	Normal								0.000380	mg/l	0
			02/28/2021	Normal								0.000113	mg/l	0
			03/31/2021	Normal								0.000402	mg/l	0
			04/30/2021	Normal								<0.00044	mg/l	0
			05/31/2021	Normal								<0.00044	mg/l	0
			06/30/2021	Normal								<0.00044	mg/l	0
			07/31/2021	Normal								<0.00044	mg/l	0
			08/31/2021	Normal								<0.00044	mg/l	0
			09/30/2021	Normal								<0.00044	mg/l	0
			10/31/2021	Normal								<0.00044	mg/l	0
			11/30/2021	Normal								<0.00044	mg/l	0
			12/31/2021	Normal								<0.00044	mg/l	0
			01/31/2022	Normal								<0.00044	mg/l	0
			02/28/2022	Normal								<0.00044	mg/l	0
			03/31/2022	Normal								0.00049	mg/l	0
			04/30/2022	Normal								<0.00044	mg/l	0
			05/31/2022	Normal								<0.00044	mg/l	0
			06/30/2022	Normal								<0.00044	mg/l	0

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

(2 )Permit ID = "WV0050776"

279

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration						
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur		
WV0050776	006	01114 - Lead, Total Recoverable	07/31/2022	Normal								<0.00044	mg/l	0		
			08/31/2022	Normal									<0.00044	mg/l	0	
			09/30/2022	Normal									<0.00044	mg/l	0	
			10/31/2022	Normal									<0.00044	mg/l	0	
			11/30/2022	Normal									<0.00044	mg/l	0	
			01/31/2023	Normal									0.00097	mg/l	0	
			02/28/2023	Normal									<0.00044	mg/l	0	
			03/31/2023	Normal									<0.00044	mg/l	0	
			04/30/2023	Normal									<0.00044	mg/l	0	
			05/31/2023	Normal									<0.00044	mg/l	0	
			06/30/2023	Normal									<0.00044	mg/l	0	
			07/31/2023	Normal									<0.00044	mg/l	0	
			08/31/2023	Normal									<0.00044	mg/l	0	
			09/30/2023	Normal									<0.00044	mg/l	0	
			10/31/2023	Normal									<0.00044	mg/l	0	
			11/30/2023	Normal									<0.00044	mg/l	0	
			12/31/2023	Normal									<0.000225	mg/l	0	
01/31/2024	Normal									0.00040	mg/l	0				
WV0050776	006	01147 - Selenium, Total (as Se)	01/31/2019	Normal							<0.0034	<0.0034	mg/l	0		
			02/28/2019	Normal								<0.0034	<0.0034	mg/l	0	
			03/31/2019	Normal									<0.0034	<0.0034	mg/l	0
			04/30/2019	Normal									<0.0034	<0.0034	mg/l	0
			05/31/2019	Normal									<0.0034	<0.0034	mg/l	0
			06/30/2019	Normal									<0.0034	<0.0034	mg/l	0
			07/31/2019	Normal									<0.0034	<0.0034	mg/l	0
			08/31/2019	Normal									<0.0034	<0.0034	mg/l	0
			09/30/2019	Normal									<0.0034	<0.0034	mg/l	0
			10/31/2019	Normal									<0.0034	<0.0034	mg/l	0
			11/30/2019	Normal									<0.0034	<0.0034	mg/l	0
			01/31/2020	Normal									<0.0034	<0.0034	mg/l	0
			02/29/2020	Normal									<0.0034	<0.0034	mg/l	0
03/31/2020	Normal									<0.0034	<0.0034	mg/l	0			
04/30/2020	Normal									<0.0034	<0.0034	mg/l	0			
05/31/2020	Normal									<0.0034	<0.0034	mg/l	0			

Sampling Frequency not matching for Highlighted rows

**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

(2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01147 - Selenium, Total (as Se)	06/30/2020	Normal						<0.0034	<0.0034	mg/l	0	
			07/31/2020	Normal						<0.0034	<0.0034	mg/l	0	
			08/31/2020	Normal						<0.00068	<0.00068	mg/l	0	
			09/30/2020	Normal						<0.0034	<0.0034	mg/l	0	
			10/31/2020	Normal						<0.0034	<0.0034	mg/l	0	
			11/30/2020	Normal						<0.0034	<0.0034	mg/l	0	
			12/31/2020	Normal						<0.0034	<0.0034	mg/l	0	
			01/31/2021	Normal						0.001285	0.001285	mg/l	0	
			02/28/2021	Normal						0.00094	0.00094	mg/l	0	
			03/31/2021	Normal						<0.00068	<0.00068	mg/l	0	
			04/30/2021	Normal						<0.0017	<0.0017	mg/l	0	
			05/31/2021	Normal						<0.00034	<0.00034	mg/l	0	
			06/30/2021	Normal						<0.0017	<0.0017	mg/l	0	
			07/31/2021	Normal						<0.0017	<0.0017	mg/l	0	
			08/31/2021	Normal						<0.0017	<0.0017	mg/l	0	
			09/30/2021	Normal						<0.0017	<0.0017	mg/l	0	
			10/31/2021	Normal						<0.0017	<0.0017	mg/l	0	
			11/30/2021	Normal						<0.0017	<0.0017	mg/l	0	
			12/31/2021	Normal						<0.0017	<0.0017	mg/l	0	
			01/31/2022	Normal						<0.0017	<0.0017	mg/l	0	
			02/28/2022	Normal						0.0021	0.0021	mg/l	0	
			03/31/2022	Normal						0.0020	0.0020	mg/l	0	
			04/30/2022	Normal						<0.0017	<0.0017	mg/l	0	
			05/31/2022	Normal						<0.0017	<0.0017	mg/l	0	
			06/30/2022	Normal						0.0019	0.0019	mg/l	0	
			07/31/2022	Normal						<0.0017	<0.0017	mg/l	0	
			08/31/2022	Normal						<0.0017	<0.0017	mg/l	0	
			09/30/2022	Normal						<0.0017	<0.0017	mg/l	0	
			10/31/2022	Normal						<0.0017	<0.0017	mg/l	0	
			11/30/2022	Normal						<0.0017	<0.0017	mg/l	0	
01/31/2023	Normal						<0.0017	<0.0017	mg/l	0				
02/28/2023	Normal						0.00190	0.00190	mg/l	0				
03/31/2023	Normal						0.0018	0.0018	mg/l	0				
04/30/2023	Normal						<0.0017	<0.0017	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

280



**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	01147 - Selenium, Total (as Se)	05/31/2023	Normal						0.0020	0.0020	mg/l	0	
			06/30/2023	Normal						<0.0017	<0.0017	mg/l	0	
			07/31/2023	Normal							<0.0017	<0.0017	mg/l	0
			08/31/2023	Normal							<0.0017	<0.0017	mg/l	0
			09/30/2023	Normal							<0.0017	<0.0017	mg/l	0
			10/31/2023	Normal							<0.0017	<0.0017	mg/l	0
			11/30/2023	Normal							<0.0017	<0.0017	mg/l	0
			12/31/2023	Normal							<0.00315	<0.00315	mg/l	0
			01/31/2024	Normal							<0.00126	<0.00126	mg/l	0
			WV0050776	006	11123 - Total Recov. Manganese	01/31/2019	Normal							0.2301
02/28/2019	Normal										0.3500	mg/l	0	
03/31/2019	Normal											0.2678	mg/l	0
04/30/2019	Normal											0.0425	mg/l	0
05/31/2019	Normal											0.2366	mg/l	0
06/30/2019	Normal											0.1106	mg/l	0
07/31/2019	Normal											0.0105	mg/l	0
08/31/2019	Normal											0.2001	mg/l	0
09/30/2019	Normal											0.0656	mg/l	0
10/31/2019	Normal											0.2408	mg/l	0
11/30/2019	Normal											0.1708	mg/l	0
01/31/2020	Normal											0.2840	mg/l	0
02/29/2020	Normal											0.4501	mg/l	0
03/31/2020	Normal											0.6016	mg/l	0
04/30/2020	Normal											0.4739	mg/l	0
05/31/2020	Normal											0.2393	mg/l	0
06/30/2020	Normal											0.1962	mg/l	0
07/31/2020	Normal											0.0133	mg/l	0
08/31/2020	Normal											0.0453	mg/l	0
09/30/2020	Normal											0.0411	mg/l	0
10/31/2020	Normal											0.0546	mg/l	0
11/30/2020	Normal											0.0295	mg/l	0
12/31/2020	Normal								0.0870	mg/l	0			
01/31/2021	Normal								0.2191	mg/l	0			
02/28/2021	Normal								0.32227	mg/l	0			

Sampling Frequency not matching for Highlighted rows.

281

**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"  
 ( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	11123 - Total Recov. Manganese	03/31/2021	Normal							0.16398	mg/l	0	
			04/30/2021	Normal							0.0686	mg/l	0	
			05/31/2021	Normal								0.099	mg/l	0
			06/30/2021	Normal								0.0502	mg/l	0
			07/31/2021	Normal								0.0241	mg/l	0
			08/31/2021	Normal								0.0913	mg/l	0
			09/30/2021	Normal								0.2433	mg/l	0
			10/31/2021	Normal								0.0464	mg/l	0
			11/30/2021	Normal								0.0145	mg/l	0
			12/31/2021	Normal								0.0083	mg/l	0
			01/31/2022	Normal								0.1642	mg/l	0
			02/28/2022	Normal								0.1593	mg/l	0
			03/31/2022	Normal								0.2080	mg/l	0
			04/30/2022	Normal								0.0115	mg/l	0
			05/31/2022	Normal								0.01533	mg/l	0
			06/30/2022	Normal								0.0466	mg/l	0
			07/31/2022	Normal								0.0438	mg/l	0
			08/31/2022	Normal								0.4013	mg/l	0
			09/30/2022	Normal								0.0439	mg/l	0
			10/31/2022	Normal								0.0392	mg/l	0
			11/30/2022	Normal								0.0414	mg/l	0
			01/31/2023	Normal								0.1814	mg/l	0
			02/28/2023	Normal								0.2661	mg/l	0
			03/31/2023	Normal								0.1631	mg/l	0
			04/30/2023	Normal								0.1097	mg/l	0
			05/31/2023	Normal								0.0388	mg/l	0
06/30/2023	Normal								0.0330	mg/l	0			
07/31/2023	Normal								0.0485	mg/l	0			
08/31/2023	Normal								0.0178	mg/l	0			
09/30/2023	Normal								0.0329	mg/l	0			
10/31/2023	Normal								0.0649	mg/l	0			
11/30/2023	Normal								0.0353	mg/l	0			
12/31/2023	Normal								0.0330	mg/l	0			
01/31/2024	Normal								0.14198	mg/l	0			

Sampling Frequency not matching for Highlighted rows.

282

**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"  
 ( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration							
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur			
WV0050776	006	50050 - Flow,in Conduit or thru. pla	01/31/2019	Normal			0.0302	mgd	0								
			02/28/2019	Normal			0.1080	mgd	0								
			03/31/2019	Normal			0.0216	mgd	0							0	
			04/30/2019	Normal			0.0006	mgd	0								
			05/31/2019	Normal			0.0216	mgd	0								
			06/30/2019	Normal			0.0144	mgd	0								
			07/31/2019	Normal			0.0216	mgd	0								
			08/31/2019	Normal			0.0036	mgd	0								
			09/30/2019	Normal			0.0014	mgd	0								
			10/31/2019	Normal			0.0008	mgd	0								
			11/30/2019	Normal			0.0072	mgd	0								
			01/31/2020	Normal			0.0792	mgd	0								
			02/29/2020	Normal			0.1800	mgd	0								0
			03/31/2020	Normal			0.1080	mgd	0								0
			04/30/2020	Normal			0.1080	mgd	0								0
			05/31/2020	Normal			0.1080	mgd	0								
			06/30/2020	Normal			0.0216	mgd	0								
			07/31/2020	Normal			0.0001	mgd	0								0
			08/31/2020	Normal			0.0014	mgd	0								0
			09/30/2020	Normal			0.0014	mgd	0								0
			10/31/2020	Normal			0.0004	mgd	0								
			11/30/2020	Normal			0.0007	mgd	0								
			12/31/2020	Normal			0.0720	mgd	0								
01/31/2021	Normal			0.0432	mgd	0								0			
02/28/2021	Normal			0.0432	mgd	0											
03/31/2021	Normal			0.2160	mgd	0											
04/30/2021	Normal			0.0072	mgd	0											
05/31/2021	Normal			0.1080	mgd	0											
06/30/2021	Normal			0.0072	mgd	0											
07/31/2021	Normal			0.0072	mgd	0											
08/31/2021	Normal			0.0004	mgd	0											
09/30/2021	Normal			0.1440	mgd	0											
10/31/2021	Normal			0.0029	mgd	0								0			
11/30/2021	Normal			0.0072	mgd	0											

283

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration						
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur		
WV0050776	006	50050 - Flow,in Conduit or thru plar	12/31/2021	Normal			0.0014	mgd	0							
			01/31/2022	Normal			0.0216	mgd	0							
			02/28/2022	Normal				0.1440	mgd	0						
			03/31/2022	Normal				0.0216	mgd	0						
			04/30/2022	Normal				0.0072	mgd	0						
			05/31/2022	Normal				0.0360	mgd	0						
			06/30/2022	Normal				0.0072	mgd	0						
			07/31/2022	Normal				0.0043	mgd	0						
			08/31/2022	Normal				0.0144	mgd	0						
			09/30/2022	Normal				0.1440	mgd	0						
			10/31/2022	Normal				0.0792	mgd	0						
			11/30/2022	Normal				0.0072	mgd	0						
			01/31/2023	Normal				0.1440	mgd	0						
			02/28/2023	Normal				0.0288	mgd	0						
			03/31/2023	Normal				0.0216	mgd	0						
			04/30/2023	Normal				0.1440	mgd	0						
			05/31/2023	Normal				0.0360	mgd	0						
			06/30/2023	Normal				0.0072	mgd	0						
			07/31/2023	Normal				0.0029	mgd	0						
			08/31/2023	Normal				0.0029	mgd	0						
09/30/2023	Normal				0.0029	mgd	0									
10/31/2023	Normal				0.0029	mgd	0									
11/30/2023	Normal				0.0144	mgd	0									
12/31/2023	Normal				0.0072	mgd	0									
01/31/2024	Normal				0.0072	mgd	0									
WV0050776	006	61425 - Acute Tox - Ceriodaphnia C	03/31/2019	Normal							<1.0	TUa	0			
			09/30/2019	Normal							0.0	TUa	0			
			03/31/2020	Normal								0.0	TUa	0		
			09/30/2020	Normal								0.0	TUa	0		
			03/31/2021	Normal								0.0	TUa	0		
			09/30/2021	Normal								<1.0	TUa	0		
			03/31/2022	Normal								0.0	TUa	0		
			09/30/2022	Normal								<1.0	TUa	0		
03/31/2023	Normal								0.0	TUa	0					

284

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	61425 - Acute Tox - Ceriodaphnia C	09/30/2023	Normal							0.000	TUa	0	
WV0050776	006	61427 - Acute Toxicity - Pimephale	03/31/2019	Normal							<1.0	TUa	0	
			09/30/2019	Normal							0.0	TUa	0	
			03/31/2020	Normal							<1.0	TUa	0	
			09/30/2020	Normal							0.0	TUa	0	
			03/31/2021	Normal							0.0	TUa	0	
			09/30/2021	Normal							<1.0	TUa	0	
			03/31/2022	Normal							0.0	TUa	0	
			09/30/2022	Normal							0.0	TUa	0	
			03/31/2023	Normal							<1.0	TUa	0	
			09/30/2023	Normal							0.000	TUa	0	
WV0050776	006	70295 - Solids, Total Dissolved (TC	01/31/2019	Normal							696	mg/l	0	
			02/28/2019	Normal							792	mg/l	0	
			03/31/2019	Normal							700	mg/l	0	
			04/30/2019	Normal							1113	mg/l	0	
			05/31/2019	Normal							808	mg/l	0	
			06/30/2019	Normal							1112	mg/l	0	
			07/31/2019	Normal							1116	mg/l	0	
			08/31/2019	Normal							1108	mg/l	0	
			09/30/2019	Normal							1640	mg/l	0	
			10/31/2019	Normal							1800	mg/l	0	
			11/30/2019	Normal							1840	mg/l	0	
			01/31/2020	Normal							480	mg/l	0	
			02/29/2020	Normal							695	mg/l	0	
			03/31/2020	Normal							760	mg/l	0	
			04/30/2020	Normal							860	mg/l	0	
			05/31/2020	Normal							468	mg/l	0	
			06/30/2020	Normal							700	mg/l	0	
			07/31/2020	Normal							1124	mg/l	0	
			08/31/2020	Normal							1344	mg/l	0	
			09/30/2020	Normal							1540	mg/l	0	
			10/31/2020	Normal							1268	mg/l	0	
			11/30/2020	Normal							1724	mg/l	0	
			12/31/2020	Normal							1608	mg/l	0	

Sampling Frequency not matching for Highlighted rows.

285

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 ) Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	70295 - Solids, Total Dissolved (TC	01/31/2021	Normal							420	mg/l	0	
			02/28/2021	Normal							1090	mg/l	0	
			03/31/2021	Normal								345	mg/l	0
			04/30/2021	Normal								1110	mg/l	0
			05/31/2021	Normal								730	mg/l	0
			06/30/2021	Normal								535	mg/l	0
			07/31/2021	Normal								745	mg/l	0
			08/31/2021	Normal								945	mg/l	0
			09/30/2021	Normal								600	mg/l	0
			10/31/2021	Normal								1020	mg/l	0
			11/30/2021	Normal								1124	mg/l	0
			12/31/2021	Normal								1240	mg/l	0
			01/31/2022	Normal								628	mg/l	0
			02/28/2022	Normal								364	mg/l	0
			03/31/2022	Normal								676	mg/l	0
			04/30/2022	Normal								1052	mg/l	0
			05/31/2022	Normal								908	mg/l	0
			06/30/2022	Normal								896	mg/l	0
			07/31/2022	Normal								1136	mg/l	0
			08/31/2022	Normal								1096	mg/l	0
			09/30/2022	Normal								788	mg/l	0
			10/31/2022	Normal								768	mg/l	0
			11/30/2022	Normal								776	mg/l	0
			01/31/2023	Normal								412	mg/l	0
02/28/2023	Normal								756	mg/l	0			
03/31/2023	Normal								644	mg/l	0			
04/30/2023	Normal								852	mg/l	0			
05/31/2023	Normal								916	mg/l	0			
06/30/2023	Normal								888	mg/l	0			
07/31/2023	Normal								1136	mg/l	0			
08/31/2023	Normal								1348	mg/l	0			
09/30/2023	Normal								1008	mg/l	0			
10/31/2023	Normal								1280	mg/l	0			
11/30/2023	Normal								1435	mg/l	0			

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**

**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	70295 - Solids, Total Dissolved (TC	12/31/2023	Normal							965	mg/l	0	
			01/31/2024	Normal							760	mg/l	0	
WV0050776	006	71900 - Mercury, Total (as Hg)	03/31/2019	Normal							0.0000041	mg/l	0	
			06/30/2019	Normal							0.0000039	mg/l	0	
			09/30/2019	Normal								0.000005	mg/l	0
			12/31/2019	Normal								<0.000005	mg/l	0
			03/31/2020	Normal								0.0000291	mg/l	0
			06/30/2020	Normal								<0.000005	mg/l	0
			09/30/2020	Normal								<0.000005	mg/l	0
			12/31/2020	Normal								<0.000005	mg/l	0
			03/31/2021	Normal								0.000007	mg/l	0
			06/30/2021	Normal								<0.000005	mg/l	0
			09/30/2021	Normal								0.0000125	mg/l	0
			12/31/2021	Normal								0.000007	mg/l	0
WV0050776	006	81020 - Sulfate	03/31/2022	Normal							0.0000066	mg/l	0	
			06/30/2022	Normal							<0.000005	mg/l	0	
			09/30/2022	Normal								<0.000005	mg/l	0
			03/31/2023	Normal								0.000014	mg/l	0
			06/30/2023	Normal								<0.000005	mg/l	0
			09/30/2023	Normal								<0.000005	mg/l	0
			12/31/2023	Normal								<0.000002	mg/l	0
			01/31/2019	Normal								307.000	mg/l	0
			02/28/2019	Normal								314.000	mg/l	0
			03/31/2019	Normal								284.000	mg/l	0
			04/30/2019	Normal								500.000	mg/l	0
			05/31/2019	Normal								362.000	mg/l	0
06/30/2019	Normal								557.000	mg/l	0			
07/31/2019	Normal								599.000	mg/l	0			
08/31/2019	Normal								519.000	mg/l	0			
09/30/2019	Normal								763.000	mg/l	0			
10/31/2019	Normal								945.000	mg/l	0			
11/30/2019	Normal								919.000	mg/l	0			
01/31/2020	Normal								185.000	mg/l	0			
02/29/2020	Normal								314.000	mg/l	0			

287

Sampling Frequency not matching for Highlighted rows.

**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"  
 ( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	81020 - Sulfate	03/31/2020	Normal							325.000	mg/l	0	
			04/30/2020	Normal							334.000	mg/l	0	
			05/31/2020	Normal							179.000	mg/l	0	
			06/30/2020	Normal							289.000	mg/l	0	
			07/31/2020	Normal							579.000	mg/l	0	
			08/31/2020	Normal							824.000	mg/l	0	
			09/30/2020	Normal							793.000	mg/l	0	
			10/31/2020	Normal							720.000	mg/l	0	
			11/30/2020	Normal							947.000	mg/l	0	
			12/31/2020	Normal							848.000	mg/l	0	
			01/31/2021	Normal							198.000	mg/l	0	
			02/28/2021	Normal							528.000	mg/l	0	
			03/31/2021	Normal							119.0000	mg/l	0	
			04/30/2021	Normal							524.000	mg/l	0	
			05/31/2021	Normal							379.000	mg/l	0	
			06/30/2021	Normal							213.000	mg/l	0	
			07/31/2021	Normal							263.000	mg/l	0	
			08/31/2021	Normal							470.000	mg/l	0	
			09/30/2021	Normal							278.000	mg/l	0	
			10/31/2021	Normal							483.000	mg/l	0	
			11/30/2021	Normal							579.000	mg/l	0	
			12/31/2021	Normal							636.000	mg/l	0	
			01/31/2022	Normal							282.000	mg/l	0	
			02/28/2022	Normal							128.000	mg/l	0	
			03/31/2022	Normal							261.000	mg/l	0	
			04/30/2022	Normal							514.000	mg/l	0	
			05/31/2022	Normal							447.000	mg/l	0	
			06/30/2022	Normal							419.800	mg/l	0	
			07/31/2022	Normal							609.600	mg/l	0	
			08/31/2022	Normal							499.900	mg/l	0	
09/30/2022	Normal							392.800	mg/l	0				
10/31/2022	Normal							400.400	mg/l	0				
11/30/2022	Normal							379.500	mg/l	0				
01/31/2023	Normal							154.700	mg/l	0				

Sampling Frequency not matching for Highlighted rows.

288



**DISCHARGE MONITORING REPORT**  
**WVDEP - Division of Water and Waste Management**

Covering the period from January 1, 2019 to February 27, 2024. and Sampler = "ALL"

( 2 )Permit ID = "WV0050776"

Permit Id	Insp. Unit	Chemical EPA	Report Date	DMR Type	Quantity					Concentration				
					Min.	Avg.	Max.	Unit	Excur	Min.	Avg.	Max.	Unit	Excur
WV0050776	006	81020 - Sulfate	02/28/2023	Normal								310.400	mg/l	0
			03/31/2023	Normal								277.200	mg/l	0
			04/30/2023	Normal								315.500	mg/l	0
			05/31/2023	Normal								490.700	mg/l	0
			06/30/2023	Normal								483.900	mg/l	0
			07/31/2023	Normal								594.000	mg/l	0
			08/31/2023	Normal								751.600	mg/l	0
			09/30/2023	Normal								1390.000	mg/l	0
			10/31/2023	Normal								695.300	mg/l	0
			11/30/2023	Normal								758.300	mg/l	0
			12/31/2023	Normal								500.900	mg/l	0
			01/31/2024	Normal								344.400	mg/l	0

289

Sampling Frequency not matching for Highlighted rows.

**STATE OF WEST VIRGINIA**

**DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER & WASTE MANAGEMENT**

**FACT SHEET ADDENDUM**

**Rivesville Power Station Closed CCB Landfill  
Permit Number: WV0050776**

**NAME AND ADDRESS OF THE APPLICANT**

Carol Trembly  
First Energy Corporation  
dba Monongahela Power Company, LLC  
1803 Murdoch Avenue  
Parkersburg, WV 26101

**NAME AND ADDRESS OF THE FACILITY**

Rivesville Power Station Closed CCB Landfill  
Morgan Ridge Rd  
Rivesville, WV 26588

**COUNTY**

Marion

**GENERAL DESCRIPTION OF FACILITY**

Disposal activities were believed to have commenced at the disposal facility located within the Parker Run watershed in the 1940s when the Rivesville Power Station was placed into operation and continued at that location until 1981 when the disposal facility located within the watershed of the unnamed tributary of the Monongahela River was placed into operation. The latter disposal facility was utilized until the Station ceased operation in 2012.

**TYPE AND QUANTITY OF SOLID WASTES**

Coal Combustion Byproducts

**BASIS FOR PERMIT CONDITIONS (REVISED)**

Renewal (33CSR1 Subdivision 3.5.c. "Term of Permit")

Based on a preliminary downgradient / upgradient statistical evaluation performed by the permit writer, MW103, MW104, MW105, and MW106 appear to exhibit analytical results above a statistical background and qualify for Phase II - Assessment monitoring.

The permittee was issued Consent Order No. 9032 by DEP's Environmental Enforcement based on exceedances of the Maximum Contaminant Level (MCL) for arsenic in groundwater in MW-106. The Order required assessment of Corrective Action for arsenic in groundwater. The permittee submitted a Groundwater Assessment Report dated September 2021 concluding that arsenic was not detected at the "point of compliance" and therefore recommended monitoring of newly installed wells MW-107A/B and MW-108 for four consecutive semi-annual monitoring events in which a decisions to continue monitoring would be made. The proposed plan did not comply with 33 CSR 1, Section 4.11.e (Assessment of Corrective Measures). The assessment must include an analysis of the effectiveness of potential corrective measures in meeting all the requirements and objectives of the remedy as described in 33 CSR 1, Section 4.11.f (Selection of Remedy). While a "point of compliance" is useful in determining if a groundwater plume is migrating offsite, the permittee did not establish or delineate groundwater in the area of MW-106 to either determine with reasonable certainty the direction of downgradient groundwater flow or install sufficient groundwater "point of compliance" wells to determine control of exposure to any residual contamination as required by 33 CSR 1, Section 4.11.e.3.A. Therefore, additional assessment requirements have been added to Section D.2.c and Section B of the permit to complete assessment of corrective action and select a remedy. Upon selection of a remedy the permit shall incorporate the remedy into the permit via a major permit modification.

Based on the WVDEP stream database, the unnamed tributary identified in the draft permit is the receiving stream. The comment letter indicated that the request to remove UNT 120.2 as a "regulated" water was not approved by the agency. That said, The agency had its Watershed Assessment Branch evaluate the stream for its ability to support aquatic life and to evaluate its flow status as defined by the water quality standards of West Virginia (Series 2, Requirements Governing Water Quality Standards Rule - Title 47CRS2 Rule Document Effective February 28, 2022). The field study was performed 11/30/2023. The results of the study concluded that the unnamed tributary would be most appropriately classified as a wet-weather stream with flowing water present only in response to precipitation. Therefore, the receiving stream has been revised to the Monongahela River. End of pipe limitations are imposed based on protection of the new receiving stream.

Since the WAB evaluation was based on one site visit a requirement to confirm the wet-weather nature of the feature during the term of the permit has been added to Section B.

West Virginia does not currently have a numeric water quality criteria prescribed for boron. However, the agency does have concerns with the toxicity from boron and its impact on the narrative water quality criteria found in 47 CSR 2, Section 3.2.e which prohibits discharges from discharging materials in concentrations which are harmful to or toxic to man, animal, or aquatic life. Therefore, the agency does possess a narrative water quality criterion which can be used for limiting specific pollutants where the State has no numeric criteria for those pollutants. In order to be protective of the water quality criterias of the Monongahela River, the agency believes it is necessary to evaluate the necessity of water quality-based effluent limits for boron at Outlet 006 due to values reported in the facility's Discharge Monitoring Reports (DMRs) as high as 12.94 mg/l (11/30/2020). The LC50 was based on based on the most conservative 96-hour acute toxicity value in an 8-species study of boron toxicity ("Acute and Chronic Toxicity of Boron to a Variety of Freshwater Organisms"; Soucek, Dickenson, and Koch; Environmental Toxicity and Chemistry Vol. 30 No. 8; 2011) of 797 mg/l. The agency therefore used this value multiplied by

1/10 the B1,B4 (freshwater) acute aquatic water quality criteria to evaluate if there is reasonable potential to cause or contribute to a violation of the State's narrative water quality criterion. EPA has also developed a lifetime health advisory for boron of 5 mg/l. The agency therefore used this value as a Category A (Human Health) criteria to evaluate if there is reasonable potential to cause or contribute to a violation of the State's narrative water quality criterion. Reasonable potential to exceed these criteria was evaluated and limitations were imposed.

The permittee cannot consistently achieve the resultant effluent limitations for boron and cadmium and a 24-month compliance schedule has been granted.

### **JUSTIFICATION FOR VARIANCES / WAIVERS**

In respect to Section C.12 of the permit: Section 6.1.f.3 of the SWMR prohibits the excavation of the final cover or of any waste materials unless otherwise approved. As this condition includes measures to be utilized to minimize the effect of excavating the waste materials, specifically, 1) minimizing the area to be excavated, 2) maintaining the slope of the excavated area, 3) maintaining benching within the excavated area, 4) replacing, regrading and revegetating areas where final soil cover was removed, and 5) placement of erosion and sedimentation control structures, the writer proposes that waste materials may be excavated. It should be noted that beneficial re-use of coal combustion by-products is authorized by Section 5.5.b.4. of the SWMR

**WATER QUALITY BASED EFFLUENT LIMITATIONS**

v 10.3

**MonPower - Rivesville**

**Outlet: 006**

**Stream: Monongahela River**

Hardness (mg/l):	94	Instream Waste %:	0.08
Temperature (°C):	27	ZID:	1.0
pH:	7.2	CMZ:	1.0
Stream 1Q10 (CFS):	NA	HH CMZ:	1.0
Stream 7Q10 (CFS):	425	HHA 1/2 Mile Rule CMZ:	1.0
Effluent Flow (MGD):	0.216		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe -WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Aluminum	NA	NA	Yes	Yes	0.2308	0.8004	Tier 1
Antimony	NA	NA	No	No	Monitor	Monitor	Tier 1
Arsenic	NA	NA	Yes	Yes	0.0100	0.0154	Tier 1
Barium	NA	NA	No	No	Monitor	Monitor	Tier 1
Beryllium	NA	NA	Yes	Yes	0.0040000	0.0077141	Tier 1
Cadmium	NA	NA	Yes	Yes	0.0002	0.0004	Tier 1
Hexavalent Chromium	NA	NA	No	No	Monitor	Monitor	Tier 1
Iron	NA	NA	Yes	Yes	0.8908	2.6790	Tier 1
Lead	NA	NA	No	No	Monitor	Monitor	Tier 1
Mercury	NA	NA	Yes	Yes	0.00000934	0.00002093	Tier 1
Nickel	NA	NA	No	No	Monitor	Monitor	Tier 1
Selenium	NA	NA	No	No	Monitor	Monitor	Tier 1
Zinc	NA	NA	No	No	Monitor	Monitor	Tier 1
Sulfate	NA	NA	Yes	No	Monitor	Monitor	Tier 1
WET - Ceriodaphnia Dubia	NA	NA	No	No	Monitor	Monitor	Tier 1
WET - Pimephales Promelas	NA	NA	No	No	Monitor	Monitor	Tier 1
Boron	NA	NA	Yes	Yes	3.80046	7.52968	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	No
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	Yes
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No



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west virginia department of environmental protection

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Office/Division of  
304-926-0499

Harold D. Ward, Cabinet Secretary  
dep.wv.gov  
Fax: (304) 926-0488

**West Virginia Department of Environmental Protection  
Watershed Assessment Branch  
Perennial Stream Survey**

**To:** Yogesh P. Patel  
**From:** Jeffrey Bailey  
**Stream:** UNT/Monongahela River RM 120.02 (WVM-17.7)  
**Facility:** Rivesville Power Station CCR Landfill (WV0050776)  
**Survey Location:** Near Jordan, WV, Marion County  
**Survey Date:** 11/30/2023  
**Report Date:** 12/7/2023

**Introduction**

On November 30, 2023, the West Virginia Department of Environmental Protection, Watershed Assessment Branch (WAB) conducted a site assessment on UNT/Monongahela River RM 120.02 in Marion County, WV. The purpose of the assessment was to determine if this stream supports aquatic life and to evaluate its flow status as defined by the water quality standards of West Virginia (Series 2, *Requirements Governing Water Quality Standards Rule - Title 47CRS2 – Rule Document Effective February 28, 2022*).

“Wet-weather streams’ are streams that flow only in response to precipitation or whose channels are at all times above the water table.”

“Intermittent streams’ are streams which have no flow during sustained periods of no precipitation, and which do not support aquatic life whose life history requires residency in flowing waters at least six (6) months.”

Currently, Title 47 Legislative Rule does not provide a definition for perennial streams. However, considering the intermittent streams definition it is assumed that a stream is perennial if it contains benthic macroinvertebrate organisms requiring greater than six months residency in flowing waters during their life cycle.

Rivesville Power Station (WV/NPDES Permit Number WV0050776, Outlet 006, solid waste landfill) requested that the WVDEP evaluate the receiving stream to determine if it is wet-weather, intermittent, or potentially perennial in terms of surface flow.

Logan Beach (Environmental Resource Specialist II) of WAB conducted the field assessment and Jeffrey Bailey (Program Manager II) summarized the data and prepared this report.

## **Study Area**

The UNT/Monongahela River RM 120.02 is a small stream in Marion County that drains a watershed of approximately 136 acres. It is approximately 0.62 miles long from the headwaters to the mouth where it flows into the Monongahela River. A sample location (XY: 39.541583, -80.087439) to evaluate flow permanence and collect aquatic life was established approximately 40 meters upstream from its confluence with the Monongahela River (Figure 1). This location is about 0.2 miles downstream of permit WV0050776 (006).

## **Summary of Results**

UNT/Monongahela River RM 120.02 - Field staff determined that the UNT/ Monongahela River RM 120.02 did not have sufficient streamflow during the sample date to support aquatic life. Therefore, no aquatic life sampling was conducted. There was no water observed in the channel, and it was described as only capable of having flowing water during heavy rains or if the pond at 006 spills over. The channel was inundated with leaves and underneath them the bottom was dampened, hard-packed soil with almost no cobble or large gravel present. The stream banks did not exhibit evidence of high water such as scarring or leaf piles. The soil on the channel bottom did not appear to be any damper than the soil located up-slope and outside of the channel. Several areas within a 100-meter reach of channel had depressions that would represent pool habitats; however, they were all devoid of standing water. Approximately 1.82 inches of precipitation (in total) fell near the study area within two weeks prior to the investigation (CoCoRaHS WV-MG-16: Morgantown 5.9 SW).

## **Conclusions**

The purpose of this study was to determine if UNT/Monongahela River RM 120.02 supports aquatic life and to evaluate its flow permanence. There was no water in the stream channel and no aquatic life sampling could be conducted. Based on this investigation conducted by WAB personnel on November 30, 2023, UNT/Monongahela River RM 120.02 would be most appropriately classified as a wet-weather stream with flowing water present only in response to precipitation.



*Aquatic life and flow permanence assessment station on UNT/Monongahela River RM 120.02 - looking downstream.*





*Aquatic life / flow permanence assessment station on UNT/Monongahela River RM 120.02 - looking upstream.*



*Channel bottom substrate of aquatic life / flow permanence assessment station on UNT/Monongahela River RM 120.02 - looking upstream.*



*Aquatic life / flow permanence assessment station on UNT/Monongahela River RM 120.02 - looking upstream from 50m meter point of 100m reach.*



*Aquatic life / flow permanence assessment station on UNT/Monongahela River RM 120.02 - looking downstream from 100m meter point of 100m reach.*



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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: 304-926-0495 / Fax: 304-926-0463

Harold Ward, Cabinet Secretary  
dep.wv.gov

November 9, 2023

William Cannon  
Monongahela Power Company  
800 Cabin Hill Drive  
Greensburg, PA 15601

RE: Rivesville Permit Extension  
WV0050776

Dear Mr. Cannon:

This letter shall serve as an extension of the above mentioned permit. In order to allow additional time to complete the renewal process, be advised that the Division of Water and Waste Management, under the authority granted by the W.Va. Code, Chapter 22, Article 15, Section 10(c), hereby administratively extends above-named permit until the permit issues or until March 31, 2024, whichever comes first.

If you have any questions, please don't hesitate to call Kolby Sutphin, of my staff, at 304.926.0495, ext. 45031 or by email at [Kolby.Sutphin@wv.gov](mailto:Kolby.Sutphin@wv.gov).

Sincerely,

A handwritten signature in black ink that reads 'Kathryn Emery'.

Katheryn D. Emery, P.E.  
Director

KDE/eah

cc: Douglas Hartman, Manager  
Jason M. Ely, WVDEP EE Inspector

VIA USPS

RECEIVED

OCT 12 2022

September 30, 2022

DWWM-WASTE

Director, Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345  
Attn: Waste Permitting Section

**RIVESVILLE POWER STATION  
COAL COMBUSTION BYPRODUCT DISPOSAL FACILITY  
SOLID WASTE/NPDES PERMIT NO. WV0050776 ANNUAL REPORT**

Attached is the 2021 Annual Operations Report for the above-referenced facility.

Should you have any questions or desire additional information, please do not hesitate to contact me at (724) 838 - 6824 or at [jkapol1@firstenergycorp.com](mailto:jkapol1@firstenergycorp.com).

Sincerely,



John Jeffrey Kapolka  
Staff Scientist

Attachment

**ANNUAL OPERATION REPORT  
2021**

**Rivesville Power Station-Closed CCB Landfill Facility  
Rivesville, WV, Marlon County  
Solid Waste/NPDES Water Pollution Control Permit No. WV0050776**

This 2021 annual operation report is submitted in accordance with condition C.3.b of the subject permit and provision 4.12.g of the WV Solid Waste Management Regulations (WV33CSR1).

**1. Facility (Previous) User:**

Rivesville Power Station

**2. Summary of Waste Received at Facility:**

No new disposal has occurred. The Rivesville Power Station was deactivated in 2012.

**3. Summary of Surface and Groundwater Monitoring Activities:**

Refer to monthly Discharge Monitoring Reports for NPDES discharge data and discussions.

Groundwater monitoring was performed on a semi-annual basis during the months of November 2020 and May 2021 for the reporting periods ending March 31 and September 30, 2021, respectively. Interwell and intrawell statistical analysis performed on the groundwater data for both reporting periods showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). An arsenic re-sampling event in October 2020 (see lab report in Attachment 1) also confirmed a permit limit exceedance in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

Mon Power entered into Consent Order (CO) 9032 with WVDEP on January 26, 2020 to address the arsenic permit limit exceedances in MW-106. A Groundwater Assessment Plan prepared by Mon Power to comply with the CO was then approved by WVDEP in October 2020 and field investigation activities including the installation of 3 new monitoring wells including MWs-107A, 107B, and 108B were completed in December 2020. Mon Power submitted a Groundwater Assessment Report to WVDEP in September 2021 that showed no exceedances of the 10 ppb GWPS at or beyond the point compliance.

In accordance with a WVDEP letter dated Nov 18, 2021 (see Attachment 2), no further corrective actions or abatement activities will be necessary at the site as long as arsenic concentrations continue to meet GWPSs for four consecutive quarters in the three new wells. The four sampling events are expected to be completed by the end of calendar year 2023. At that time, a determination will be made whether continued sampling is warranted.

The Annual Groundwater Flow and Direction Report is attached.

The annual cleaning of the Leak Detection/Underdrain System Lines underlying the surface impoundment, required by Permit Condition C.11, was completed on June 22, 2021. No blockages were reported.

**ANNUAL OPERATION REPORT  
2021**

**Rivesville Power Station-Closed CCB Landfill Facility  
Rivesville, WV, Marion County  
Solid Waste/NPDES Water Pollution Control Permit No. WV0050776**

**4. Description of Site Development:**

The Rivesville Power Station was deactivated in 2012. The CCB disposal facility was closed in 2014 and subsequently a Construction Quality Assurance Closure Completion Report was submitted October 30, 2014.

The most recent renewal for Permit No. WV0050776 was issued February 18, 2015, with an effective date of April 1, 2015, and an expiration date of February 17, 2020. A permit renewal application was submitted via the Department's Electronic Submission System (ESS) on August 14, 2019.

A permit extension letter dated December 28, 2021, was received, administratively extending the landfill permit until the permit issued or until the 30<sup>th</sup> of June, 2022, whichever came first.

Quarterly Storm Water Pollution Prevention/Groundwater Protection Plan inspections are performed, and any appropriate actions taken.

**5. Topographic Mapping:**

No topographic mapping is provided. An As-built Final Grade and Features Drawing No. C75408881 was included with the Construction Quality Assurance Closure Completion Report submitted October 30, 2014 and is still representative of current site conditions.

## **2021 Annual Groundwater Flow and Direction Report Rivesville Power Station – Solid Waste Disposal Site Solid Waste Disposal/NPDES Permit No. WV0050776**

### **Summary of 2021 Surface and Groundwater Monitoring Activities:**

Groundwater monitoring was performed on a semi-annual basis during the months of November 2020 and May 2021 for the reporting periods ending March 31 and September 30, 2021, respectively. Interwell and intrawell statistical analysis performed on the groundwater data for both reporting periods showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). An arsenic re-sampling event in October 2020 (see lab report in Attachment 1) also confirmed a permit limit exceedance in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

Mon Power entered into Consent Order (CO) 9032 with WVDEP on January 26, 2020 to address the arsenic permit limit exceedances in MW-106. A Groundwater Assessment Plan prepared by Mon Power to comply with the CO was then approved by WVDEP in October 2020 and field investigation activities including the installation of 3 new monitoring wells including MWs-107A, 107B, and 108B were completed in December 2020. Mon Power submitted a Groundwater Assessment Report to WVDEP in September 2021 that showed no exceedances of the 10 ppb GWPS at or beyond the point compliance.

In accordance with a WVDEP letter dated Nov 18, 2021 (see Attachment 2), no further corrective actions or abatement activities will be necessary at the site as long as arsenic concentrations continue to meet GWPSs for four consecutive quarters in the three new wells. The four sampling events are expected to be completed by the end of calendar year 2023. At that time, a determination will be made whether continued sampling is warranted.

### **2021 Annual Groundwater Flow and Direction Report**

Section C.2d of the Solid Waste/NPDES Permit issued in February 2015 requires a determination of the rate and direction of groundwater flow in the uppermost contiguous aquifer underlying the ash disposal area. The Rind Aquifer has been identified as the uppermost contiguous aquifer beneath the facility. The groundwater monitoring program includes six groundwater monitoring wells installed in the Rind Aquifer. Three pre-existing piezometers/wells were re-designated and included in the program. Three additional wells were installed during May of 2003. One monitoring well (MW-102) was abandoned in September 2010 because it was consistently dry.

Groundwater enters the rind from infiltrating precipitation. Some contribution may also occur as discharge from bedrock aquifers. Groundwater flow in the rind generally mimics surface topography, following the zone of highest permeability. A fraction of this groundwater may also infiltrate into deeper strata.

Water level data measured from the wells during the 2021 semi-annual sampling events are shown on Attachment 3. Groundwater elevation data measured during October 2003 were plotted on a site map and contoured on Drawing Number C75503109 (previously submitted). Groundwater flows in a north/northwest direction toward the sedimentation basin. This groundwater flow pattern generally coincides with the underlying stream valley located beneath the landfill area. Data collected in 2021 shows groundwater flow directions similar to previously submitted data plotted on Drawing Number C75503109.

The maximum and minimum hydraulic gradients were calculated from the groundwater contour map and used to determine the linear velocity of the aquifer. Hydraulic conductivity values were derived from pump tests performed on two of the wells installed in 2003. Assuming a permeability of 10 percent for the fractured bedrock, the calculated velocity for the Rind Aquifer ranges from 1.7 ft/yr to 5.7 ft/yr.

# ATTACHMENT 1

LOCATION CODE	SITE	DESCRIPTION	COLLECTION DATE	ANALYTICAL CODE	ANALYTE	ANALYSIS RESULT	MDL	UNITS	SIDN	ANALYTICAL METHOD
R7500209	Rivesville	MW-106	11/5/2021	ICPMS-AS_D-DRC	ARSENIC	0.087352	0.00032	mg/l	AL10572	EPA200.884.4-94M






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 west virginia department of environmental protection
 

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Environmental Enforcement  
 601 57<sup>th</sup> Street SE  
 Charleston, WV 25304  
 Telephone: (304) 926-0470 Fax: (304) 926-0488

Harold D. Ward, Cabinet Secretary  
 dep.wv.gov

November 18, 2021

Monongahela Power Company  
 ATTN: Raymond Evans  
 800 Cabin Hill Dr.  
 Greensburg, PA 15601-1689

**CERTIFIED RETURN RECEIPT REQUESTED**

9489 0090 0027 6362 2700 57

Re: Groundwater Assessment Report

Dear Mr. Evans:

This correspondence is in regard to Monongahela Power Company's Rivesville Groundwater Assessment Report, dated September 23, 2021, which was submitted in association with the requirements of Order No. 9032. In the correspondence, Monongahela Power Company stated that the results of the Report indicate no further assessment/abatement activities at the site are needed, because arsenic levels do not exceed the 10 ppb Groundwater Protection Standard at or beyond the relevant point of compliance.

Upon review, West Virginia Department of Environmental Protection (WVDEP) has determined that further monitoring of the wells for four consecutive semi-annual periods is necessary, as outlined in Monongahela Power Company's aforementioned September 23, 2021 correspondence, in order to further assess potential arsenic trends and to verify that groundwater at the facility continues to meet Groundwater Protection Standards. Furthermore, although Monongahela Power Company's correspondence states that all requirements of Order 9032 will be complete upon WVDEP's review and approval, please be aware that the requirements of the Order shall remain in full force and effect until such time when all required monitoring is completed, and it is confirmed that no further corrective action will be needed to achieve compliance with the WV/NPDES permit and all pertinent laws and rules. Failure to conduct the required monitoring, as previously described, and/or failure to complete all necessary corrective actions at the site are violations of the Order.

Should you have any questions regarding this matter, please contact me at (304) 926-0470.

  
 Jeremy W. Hardy  
 Chief Inspector

Promoting a healthy environment.

**Enclosure**

**cc: Brad Wright, Assistant Chief Inspector, EE/WW (via e-mail)**  
**David C. Simmons, Assistant Chief Inspector, EE (via e-mail)**  
**Laura McGee, Environmental Resources Program Manager, EE (via e-mail)**  
**Cindy Blugerman, Environmental Resources Specialist, EE (via e-mail)**  
**Tonya Mather, Environmental Inspector Supervisor, EE/WW (via e-mail)**  
**Jason Ely, Environmental Inspector Specialist, EE/WW (via e-mail)**  
**Shyrel Moellendick, MSSS, EE (via e-mail)**  
**Jay Newbaker, P.G., First Energy Corp (via e-mail)**

## Rivesville Disposal Site

## Groundwater Elevations from Semi-Annual Monitoring Events in 2021

Monitoring Well	T.O.C. Elevation	Elevation (ft.)		Monitored Zone
		2nd Quarter	4th Quarter	
MW-101	1202.15	1168.47	1162.72	Rind Aquifer
MW-103	1036.70	1011.5	1009.15	Rind Aquifer
MW-104	998.60	984.25	984.64	Rind Aquifer
MW-105	1044.82	1022.34	1014.4	Rind Aquifer
MW-106	1149.13	1056.78	1054.93	Rind Aquifer

RECEIVED

OCT 02 2023

DWWM WASTE



800 Cabin Hill Drive  
Greensburg, PA 15601

VIA USPS

September 28, 2023

Director, Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345  
Attn: Waste Permitting Section

**RIVESVILLE POWER STATION  
COAL COMBUSTION BYPRODUCT DISPOSAL FACILITY  
SOLID WASTE/NPDES PERMIT NO. WV0050776 ANNUAL REPORT**

Attached is the 2022 Annual Operations Report for the above-referenced facility.

Should you have any questions or desire additional information, please do not hesitate to contact me at (724) 838 - 6824 or at [jkapol1@firstenergycorp.com](mailto:jkapol1@firstenergycorp.com).

Sincerely,

A handwritten signature in blue ink that reads "John Jeffrey Kapolka".

John Jeffrey Kapolka  
Staff Scientist

Attachment

**ANNUAL OPERATION REPORT  
2022**

**Rivesville Power Station-Closed CCB Landfill Facility  
Rivesville, WV, Marion County  
Solid Waste/NPDES Water Pollution Control Permit No. WV0050776**

This 2022 annual operation report is submitted in accordance with condition C.3.b of the subject permit and provision 4.12.g of the WV Solid Waste Management Regulations (WV33CSR1).

1. Facility (Previous) User:  
Rivesville Power Station
2. Summary of Waste Received at Facility:  
No new disposal has occurred. The Rivesville Power Station was deactivated in 2012.
3. Summary of Surface and Groundwater Monitoring Activities:  
Refer to monthly Discharge Monitoring Reports for NPDES discharge data and discussions.

Groundwater monitoring was performed on a semi-annual basis during the months of October 2021 and May 2022 for the reporting periods ending March 31 and September 30, 2022, respectively. Interwell and intrawell statistical analysis performed on the groundwater data for both reporting periods showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). Arsenic re-sampling events in November 2021 and November 2022 (see lab report in Attachment 1) confirmed the permit limit exceedances in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

Mon Power entered into Consent Order (CO) 9032 with WVDEP on January 26, 2020 to address the arsenic permit limit exceedances in MW-106. A Groundwater Assessment Plan prepared by Mon Power to comply with the CO was then approved by WVDEP in October 2020 and field investigation activities including the installation of 3 new monitoring wells including MWs-107A, 107B, and 108B were completed in December 2020. Mon Power submitted a Groundwater Assessment Report to WVDEP in September 2021 that showed no exceedances of the 10 ppb GWPS at or beyond the point compliance.

In accordance with a WVDEP letter dated Nov 18, 2021 (see Attachment 2), no further corrective actions or abatement activities will be necessary at the site as long as arsenic concentrations continue to meet GWPSs for four consecutive quarters in the three new wells. The four sampling events are expected to be completed by the end of calendar year 2023. At that time, a determination will be made whether continued sampling is warranted.

The Annual Groundwater Flow and Direction Report is attached.

The annual cleaning of the Leak Detection/Underdrain System Lines underlying the surface impoundment, required by Permit Condition C.11, was completed on June 29, 2022. No blockages were reported.

**ANNUAL OPERATION REPORT  
2022**

**Rivesville Power Station-Closed CCB Landfill Facility  
Rivesville, WV, Marion County  
Solid Waste/NPDES Water Pollution Control Permit No. WV0050776**

**4. Description of Site Development:**

The Rivesville Power Station was deactivated in 2012. The CCB disposal facility was closed in 2014 and subsequently a Construction Quality Assurance Closure Completion Report was submitted October 30, 2014.

A draft of the most recent renewal for Permit No. WV0050776 dated May 30, 2023, was received by the permittee on or about that date. And following two thirty-day public comment period extensions, the permittee submitted its comments on the draft permit to the Department on August 30, 2023.

The permittee quarterly examines the landfill surfaces for: 1) evidence of cracking or erosion which could allow waters to enter solid waste deposits, and 2) evidence of settling of solid waste causing ponding of surface water. Following the inspections any subsequent necessary actions are taken.

**5. Topographic Mapping:**

No topographic mapping is provided. An As-built Final Grade and Features Drawing No. C75408681 was included with the Construction Quality Assurance Closure Completion Report submitted October 30, 2014, and is still representative of current site conditions.

## **2022 Annual Groundwater Flow and Direction Report Rivesville Power Station – Solid Waste Disposal Site Solid Waste Disposal/NPDES Permit No. WV0050776**

### **Summary of 2022 Surface and Groundwater Monitoring Activities:**

Groundwater monitoring was performed on a semi-annual basis during the months of October 2021 and May 2022 for the reporting periods ending March 31 and September 30, 2022, respectively. Interwell and intrawell statistical analysis performed on the groundwater data for both reporting periods showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). Arsenic re-sampling events in November 2021 and November 2022 (see lab report in Attachment 1) confirmed the permit limit exceedances in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

Mon Power entered into Consent Order (CO) 9032 with WVDEP on January 26, 2020 to address the arsenic permit limit exceedances in MW-106. A Groundwater Assessment Plan prepared by Mon Power to comply with the CO was then approved by WVDEP in October 2020 and field investigation activities including the installation of 3 new monitoring wells including MWs-107A, 107B, and 108B were completed in December 2020. Mon Power submitted a Groundwater Assessment Report to WVDEP in September 2021 that showed no exceedances of the 10 ppb GWPS at or beyond the point compliance.

In accordance with a WVDEP letter dated Nov 18, 2021 (see Attachment 2), no further corrective actions or abatement activities will be necessary at the site as long as arsenic concentrations continue to meet GWPSs for four consecutive quarters in the three new wells. The four sampling events are expected to be completed by the end of calendar year 2023. At that time, a determination will be made whether continued sampling is warranted.

### **2022 Annual Groundwater Flow and Direction Report**

Section C.2d of the Solid Waste/NPDES Permit issued in February 2015 requires a determination of the rate and direction of groundwater flow in the uppermost contiguous aquifer underlying the ash disposal area. The Rind Aquifer has been identified as the uppermost contiguous aquifer beneath the facility. The groundwater monitoring program includes six groundwater monitoring wells installed in the Rind Aquifer. Three pre-existing piezometers/wells were re-designated and included in the program. Three additional wells were installed during May of 2003. One monitoring well (MW-102) was abandoned in September 2010 because it was consistently dry.

Groundwater enters the rind from infiltrating precipitation. Some contribution may also occur as discharge from bedrock aquifers. Groundwater flow in the rind generally mimics surface topography, following the zone of highest permeability. A fraction of this groundwater may also infiltrate into deeper strata.

Water level data measured from the wells during the 2022 semi-annual sampling events are shown on Attachment 3. Groundwater elevation data measured during October 2003 were plotted on a site map and contoured on Drawing Number C75503109 (previously submitted). Groundwater flows in a north/northwest direction toward the sedimentation basin. This groundwater flow pattern generally coincides with the underlying stream valley located beneath the landfill area. Data collected in 2022 shows groundwater flow directions similar to previously submitted data plotted on Drawing Number C75503109.

The maximum and minimum hydraulic gradients were calculated from the groundwater contour map and used to determine the linear velocity of the aquifer. Hydraulic conductivity values were derived from pump tests performed on two of the wells installed in 2003. Assuming a permeability of 10 percent for the fractured bedrock, the calculated velocity for the Rind Aquifer ranges from 1.7 ft/yr to 5.7 ft/yr.

**2022 Annual Groundwater Flow and Direction Report  
Rivesville Power Station – Solid Waste Disposal Site  
Solid Waste Disposal/NPDES Permit No. WV0050776**

**Attachment 1**

Report Format: JAV1

Chem Name	Method	Trace Analyte - DEC	Unit	MSD	MS	MSD	MS/MSD	MS/MSD
		mg/L	mg/L	%	%	mg/L	%	mg/L
AL10572	MSD	0.00832						
Loc Code: 87900229	Result	0.007252						
Description: RIVESVILLE - MTRC6 - RESAMPLER 11/05/2021 12:00 Project:GW								
AL25662	MSD	0.00032	0.008			0.008		0.000
Loc Code: 87900229	Result	0.025199	0.025	91.1	99.0	0.117985	1.83	0.120179
Description: RIVESVILLE - MTRC6 - RESAMPLER 11/17/2022 11:40 Project:GW								






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 west virginia department of environmental protection
 

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Environmental Enforcement  
 601 57<sup>th</sup> Street SE  
 Charleston, WV 25304  
 Telephone: (304) 926-0470 Fax: (304) 926-0488

Harold D. Ward, Cabinet Secretary  
 dep.wv.gov

November 18, 2021

Monongahela Power Company  
 ATTN: Raymond Evans  
 800 Cabin Hill Dr.  
 Greensburg, PA 15601-1689

**CERTIFIED RETURN RECEIPT REQUESTED**

9489 0090 0027 6362 2700 57


Re: Groundwater Assessment Report

Dear Mr. Evans:

This correspondence is in regard to Monongahela Power Company's Rivesville Groundwater Assessment Report, dated September 23, 2021, which was submitted in association with the requirements of Order No. 9032. In the correspondence, Monongahela Power Company stated that the results of the Report indicate no further assessment/abatement activities at the site are needed, because arsenic levels do not exceed the 10 ppb Groundwater Protection Standard at or beyond the relevant point of compliance.

Upon review, West Virginia Department of Environmental Protection (WVDEP) has determined that further monitoring of the wells for four consecutive semi-annual periods is necessary, as outlined in Monongahela Power Company's aforementioned September 23, 2021 correspondence, in order to further assess potential arsenic trends and to verify that groundwater at the facility continues to meet Groundwater Protection Standards. Furthermore, although Monongahela Power Company's correspondence states that all requirements of Order 9032 will be complete upon WVDEP's review and approval, please be aware that the requirements of the Order shall remain in full force and effect until such time when all required monitoring is completed, and it is confirmed that no further corrective action will be needed to achieve compliance with the WV/NPDES permit and all pertinent laws and rules. Failure to conduct the required monitoring, as previously described, and/or failure to complete all necessary corrective actions at the site are violations of the Order.

Should you have any questions regarding this matter, please contact me at (304) 926-0470.

  
 Jeremy W. Bandy  
 Chief Inspector

Promoting a healthy environment.

**Enclosure**

**cc: Brad Wright, Assistant Chief Inspector, EE/WW (via e-mail)**  
**David C. Simmons, Assistant Chief Inspector, EE (via e-mail)**  
**Laura McGee, Environmental Resources Program Manager, EE (via e-mail)**  
**Cindy Blugerman, Environmental Resources Specialist, EE (via e-mail)**  
**Tonya Mather, Environmental Inspector Supervisor, EE/WW (via e-mail)**  
**Jason Ely, Environmental Inspector Specialist, EE/WW (via e-mail)**  
**Shyrel Moellendick, MSSS, EE (via e-mail)**  
**Jay Newbaker, P.G., First Energy Corp (via e-mail)**

**Attachment 3**

**Rivesville Disposal Site**

**Groundwater Elevations from Semi-Annual Monitoring Events in 2022**

<b>Monitoring Well</b>	<b>T.O.C. Elevation</b>	<b>Elevation (ft.) 2nd Quarter</b>	<b>Elevation (ft.) 4th Quarter</b>	<b>Monitored Zone</b>
MW-101	1202.15	1170.46	1163.66	Rind Aquifer
MW-103	1038.70	1011.32	1009.6	Rind Aquifer
MW-104	998.60	992.56	984.7	Rind Aquifer
MW-105	1044.82	1019.9	1016.37	Rind Aquifer
MW-106	1149.13	1056.41	1055.23	Rind Aquifer

USPS and EMAIL

RECEIVED

APR 1 8 2023

DWWM WASTE

April 3, 2023

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RECEIVED  
APR 07, 2023

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

RECEIVED  
APR 1 8 2023  
DWWM WASTE  
~~RECEIVED APR 07 2023~~

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Total Recoverable Aluminum Average Monthly limit of 0.29 mg/L during March 2023.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): A Total Recoverable Aluminum sample obtained on March 2, 2023, produced an analytical result of 0.7807 mg/L. At the time of sampling Flow was 15 gpm, and Total Suspended Solids were <4 mg/L.

Cause of Noncompliance

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but continues to be uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated, and there is no activity. The lined sedimentation pond was dredged at closure. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation pond's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Despite the minimal erosive activity at this closed site, the lined pond was again proactively dredged in late 2019. Acting upon a theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, as part of its Corrective Action Plan to address Compliance Order 9032, installed a turbidity boom/curtain across the pond's width, at a point roughly bisecting the basin, on March 24, 2020. Aluminum values trended downward thereafter. However, the pond appears to become highly stratified each winter, with this condition most pronounced when ice blankets the pond's surface.

Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
April 3, 2023  
Page 2

Following the February 2022 noncompliance event, Monongahela Power submitted a Minor Modification Application on April 6, 2022, via the Electronic Submission System. A copy of **Sketch 1** from that application is enclosed for easy reference. Although full detail may be obtained from the application, in summary, proposed is the installation of a low weir within the leachate inflow channel from which a 6" pipe will be routed to the bottom of the pond where it will discharge via a series of holes drilled through the submerged portion of that pipe. Thus, this configuration will function as a simplified "internal" diffuser of sorts. The term "internal" is used here because the diffusion will occur within the confines of the sedimentation pond, as opposed to downstream of a permitted outlet where a discharge would be diffusing into the waters of the State. Monongahela Power believes the proposed installation will provide the degree of temperature acclimation necessary to mitigate the observed wintertime stratification problem from which these noncompliant Aluminum values arise. At the time of application, Monongahela Power stated its anticipation that this straightforward installation could be performed within a couple of weeks following Department approval.

However, as of this writing, the requested modification application sits at 100% complete within the ESS. The permit renewal application, submitted April 28, 2020, currently sits at 96% complete within the ESS. Monongahela Power reiterates its stated desire to install this solution rapidly, and will do so, contingent upon continued contractor availability, following receipt of the WVDEP's required approval.

Length of Noncompliance

Uncertain. The reported Monthly Average limit exceedance occurred during March 2023.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Mark A. Vindivich  
Manager, Remediation,  
CCR & Environmental Services

Enclosure

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston

# Rivesville CCB Landfill SW/NPDES WV0050776

Minor Modification adding short weir to existing fabric-form channel to redirect underdrain leachate flow to bottom of pond to improve mixing during strongly stratified winter conditions. When stormwater adds flow to this influent channel exceeding the capacity of the 6-inch collection pipe the low weir will simply be overtopped with all flow remaining within the oversized fabric-form channel

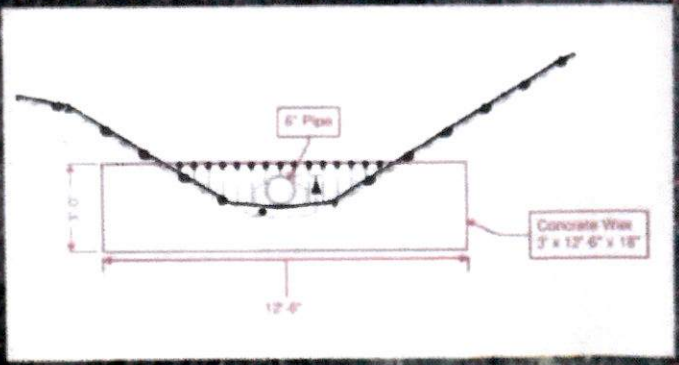
Sketch 1 03/31/2022 WEC

318

Pipe to be ballasted with concrete blocks to stay on pond bottom

Collection Pipe Cleanout

Concrete weir with 6" collection pipe



200 ft

**USPS and EMAIL**

February 7, 2023

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

REC'D FEB 10 2023

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Total Recoverable Aluminum Average Monthly limit of 0.29 mg/L and Total Recoverable Aluminum Daily Maximum limit of 0.8 mg/L during January 2023.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): A Total Recoverable Aluminum sample obtained on January 4, 2022, produced an analytical result of 0.8905 mg/L. At the time of sampling Flow was 100 gpm, and Total Suspended Solids were 10 mg/L.

Cause of Noncompliance

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but continues to be uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated, and there is no activity. The lined sedimentation pond was dredged at closure. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation pond's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Despite the minimal erosive activity at this closed site, the lined pond was again proactively dredged in late 2019. Acting upon a theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, as part of its Corrective Action Plan to address Compliance Order 9032, installed a turbidity boom/curtain across the pond's width, at a point roughly bisecting the basin, on March 24, 2020. Aluminum values trended downward thereafter. However, the pond appears to become highly stratified each winter, with this condition most pronounced when ice blankets the pond's surface.

Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
February 7, 2023  
Page 2

Following the last such noncompliance event (February 2022), Monongahela Power submitted a Minor Modification Application on April 6, 2022, via the Electronic Submission System. A copy of Sketch 1 from that application is enclosed for easy reference. Although full detail may be obtained from the application, in summary, proposed is the installation of a low weir within the leachate inflow channel from which a 6" pipe will be routed to the bottom of the pond where it will discharge via a series of holes drilled through the submerged portion of that pipe. Thus, this configuration will function as a simplified "internal" diffuser of sorts. The term "internal" is used here because the diffusion will occur within the confines of the sedimentation pond, as opposed to downstream of a permitted outlet where a discharge would be diffusing into the waters of the State. Monongahela Power believes the proposed installation will provide the degree of temperature acclimation necessary to mitigate the observed wintertime stratification problem from which these noncompliant Aluminum values arise. At the time of application, Monongahela Power stated its anticipation that this straightforward installation could be performed within a couple of weeks following Department approval.

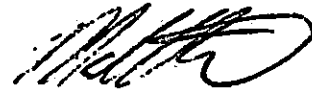
However, as of this writing, the requested modification application sits at 100% complete within the ESS. The permit renewal application, submitted April 28, 2020, currently sits at 96% complete within the ESS. Monongahela Power reiterates its stated desire to install this solution rapidly, and will, contingent upon continued contractor availability, do so, following receipt of the WVDEP's required approval.

Length of Noncompliance

Uncertain. The reported Monthly Average and Daily Maximum limit exceedances occurred during January 2023.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Mark A. Vindivich  
Manager, Remediation,  
CCR & Environmental Services

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston

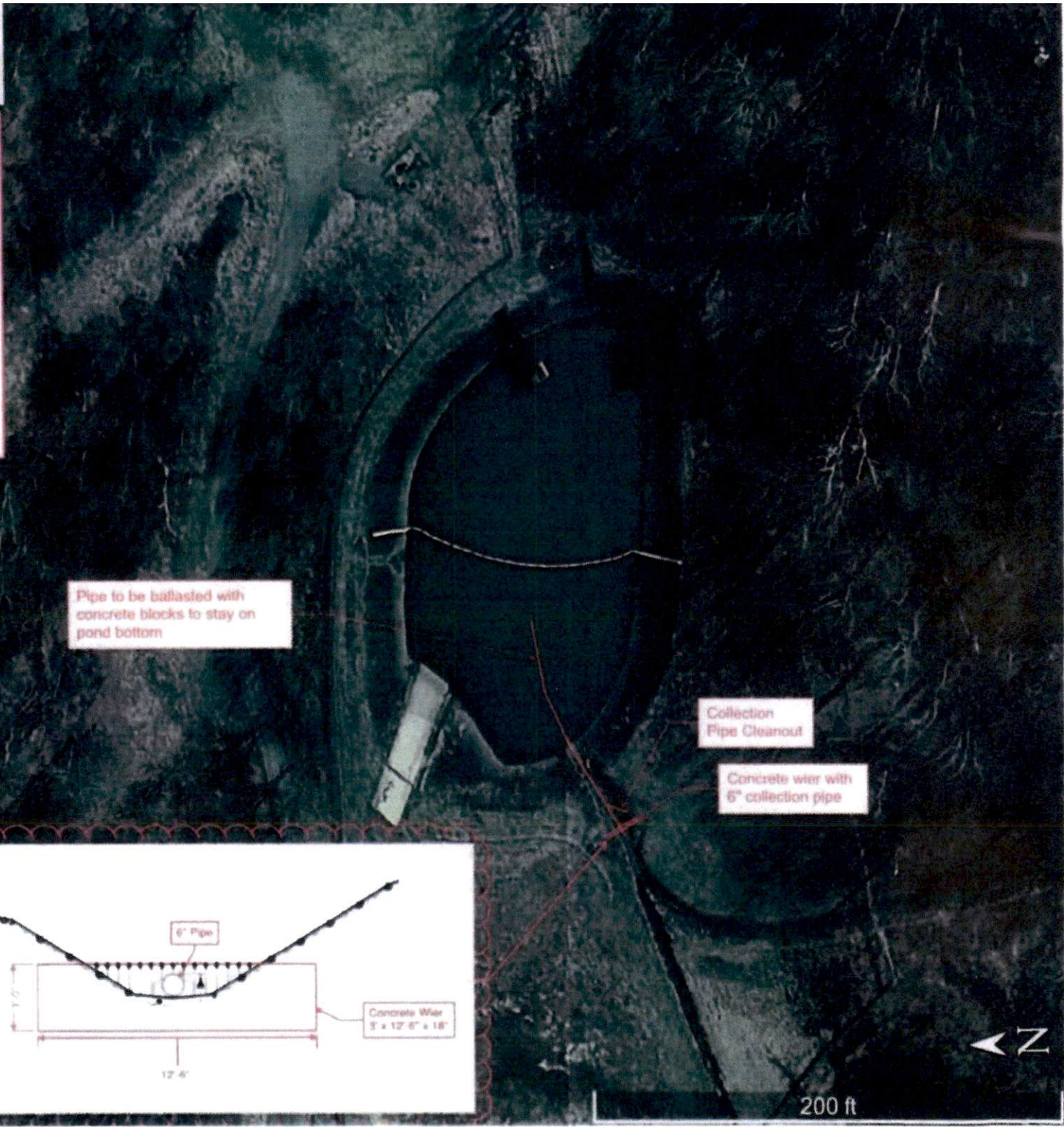


# Rivesville CCB Landfill SW/NPDES WV0050776

linor Modification adding short weir to existing fabric-form channel to redirect underdrain leachate flow to bottom of pond to improve mixing during strongly stratified winter conditions. When stormwater adds flow to this influent channel exceeding the capacity of the 6-inch collection pipe the low weir will simply be overtopped with all flow remaining within the oversized fabric-form channel

Sketch 1 03/31/2022 WEC

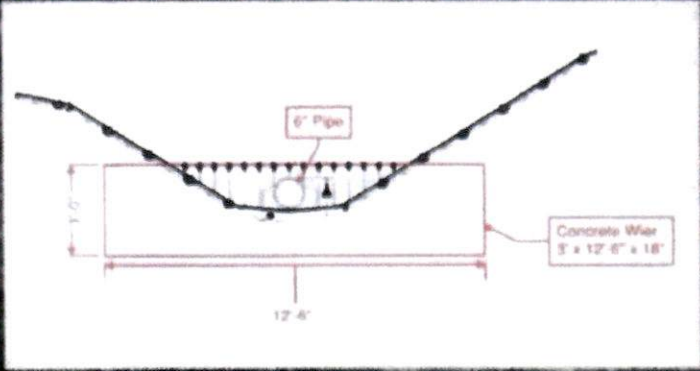
321



Pipe to be ballasted with concrete blocks to stay on pond bottom

Collection Pipe Cleanout

Concrete weir with 6" collection pipe



**USPS and EMAIL**

April 7, 2022

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RECEIVED

APR 13 2022

DWWM-WASTE

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Total Recoverable Aluminum Average Monthly limit of 0.29 mg/L during March 2022.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): A Total Recoverable Aluminum sample obtained on March 3, 2022, produced an analytical result of 0.4658 mg/L. At the time of sampling Flow was 15 gpm, and Total Suspended Solids were 7 mg/L. This results in a Monthly Average of 0.4658 mg/L.

Cause of Noncompliance

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but continues to be uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated, and there is no activity. The lined sedimentation pond was dredged at closure. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation pond's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Despite the minimal erosive activity at this closed site, the lined pond was again proactively dredged in late 2019. Acting upon a theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, as part of its Corrective Action Plan to address Compliance Order 9032, installed a skirted turbidity boom/curtain across the pond's width, at a point roughly bisecting the basin, on March 24, 2020. Aluminum values trended downward thereafter.

Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
April 7, 2022  
Page 2

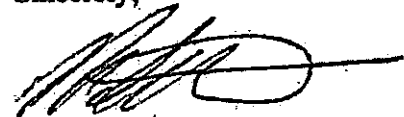
However, the pond still becomes highly stratified each winter, with this condition most pronounced when ice blankets the pond's surface. A Minor Modification Application was submitted April 6, 2022, via the Electronic Submission System, proposing the installation of a low weir within the leachate inflow channel from which a 6" pipe will be routed to the bottom of the pond where it will discharge via a series of holes drilled through the submerged portion of that pipe. Thus, this configuration will function as a simplified "internal" diffuser of sorts. The term "internal" is used here because the diffusion will occur within the confines of the sedimentation pond, as opposed to downstream of a permitted outlet where a discharge would be diffusing into the waters of the State. Monongahela Power believes the proposed installation will provide the degree of temperature acclimation necessary to mitigate the observed wintertime stratification problem from which these noncompliant Aluminum values arise. Monongahela Power anticipates this straightforward installation can be performed quickly, pending contractor availability, following Department approval.

Length of Noncompliance

Uncertain. The reported Monthly Average limit exceedance occurred during March 2022.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Mark A. Vindivich  
Manager, Remediation,  
CCR & Environmental Services

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston

RECEIVED

EMAIL and USPS MAIL

FEB 24 2021

February 16, 2021

DWW/WASTE

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Average Monthly Total Recoverable Aluminum limit of 0.29 mg/L during January 2021.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on January 4 (Aluminum of 0.7542 mg/L, flow of 30 gpm) and January 14 (Aluminum of 0.6483 mg/L, flow of 5 gpm) resulting in an exceedance (0.7012 mg/L) of the Average Monthly Total Recoverable Aluminum limit.

Cause of Noncompliance

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but continues to be uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated, and there is no activity. The lined sedimentation pond was dredged at closure. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation pond's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Despite the minimal erosive activity at this closed site, the lined pond was again proactively dredged in late 2019. Acting upon a theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, as part of its Corrective Action Plan to address Compliance Order 9032, installed a turbidity boom/curtain across the pond's width, at a point roughly bisecting the basin, on March 24, 2020. Aluminum values trended downward thereafter. During January 2021 the pond froze over again and remains highly stratified. Continued monitoring is proposed.

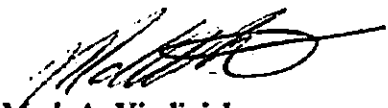
Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
February 16, 2021  
Page 2

Length of Noncompliance

Uncertain. The reported Monthly Average limit exceedance occurred during January 2021.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Mark A. Vindivich  
Manager, Remediation,  
CCR & Environmental Services

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston

FEB 11 2022

DWWM-WASTE

**EMAIL and USPS MAIL**

February 9, 2022

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Total Recoverable Aluminum Average Monthly limit of 0.29 mg/L and Total Recoverable Aluminum Daily Maximum limit of 0.8 mg/L, during January 2022.

**Description of Discharge (Outlet 006)**

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): A Total Recoverable Aluminum sample obtained on January 6, 2022, produced an analytical result of 1.2100 mg/L. At the time of sampling Flow was 15 gpm, and Total Suspended Solids were 7 mg/L.

**Cause of Noncompliance**

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but continues to be uncertain.

**Steps Taken to Reduce, Eliminate & Prevent Recurrence**

The site is closed, fully vegetated, and there is no activity. The lined sedimentation pond was dredged at closure. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation pond's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Despite the minimal erosive activity at this closed site, the lined pond was again proactively dredged in late 2019. Acting upon a theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, as part of its Corrective Action Plan to address Compliance Order 9032, installed a turbidity boom/curtain across the pond's width, at a point roughly bisecting the basin, on March 24, 2020. Aluminum values trended downward thereafter. However, the pond appears to become highly stratified each winter, with this condition most pronounced when ice blankets the pond's surface. Continued monitoring is proposed.

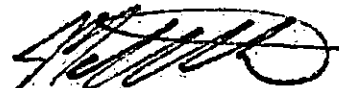
Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
February 9, 2022  
Page 2

Length of Noncompliance

Uncertain. The reported Monthly Average and Daily Maximum limit exceedances occurred during January 2022.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Mark A. Vindivich  
Manager, Remediation,  
CCR & Environmental Services

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston



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west virginia department of environmental protection

---

Environmental Enforcement  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Telephone: (304) 926-0470 Fax: (304) 926-0488

Harold D. Ward, Cabinet Secretary  
dep.wv.gov

November 18, 2021

Monongahela Power Company  
ATTN: Raymond Evans  
800 Cabin Hill Dr.  
Greensburg, PA 15601-1689

**CERTIFIED RETURN RECEIPT REQUESTED**

**9489 0090 0027 6362 2700 57**

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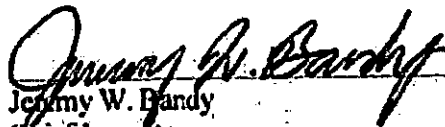
Re: Groundwater Assessment Report

Dear Mr. Evans:

This correspondence is in regard to Monongahela Power Company's Rivesville Groundwater Assessment Report, dated September 23, 2021, which was submitted in association with the requirements of Order No. 9032. In the correspondence, Monongahela Power Company stated that the results of the Report indicate no further assessment/abatement activities at the site are needed, because arsenic levels do not exceed the 10 ppb Groundwater Protection Standard at or beyond the relevant point of compliance.

Upon review, West Virginia Department of Environmental Protection (WVDEP) has determined that further monitoring of the wells for four consecutive semi-annual periods is necessary, as outlined in Monongahela Power Company's aforementioned September 23, 2021 correspondence, in order to further assess potential arsenic trends and to verify that groundwater at the facility continues to meet Groundwater Protection Standards. Furthermore, although Monongahela Power Company's correspondence states that all requirements of Order 9032 will be complete upon WVDEP's review and approval, please be aware that the requirements of the Order shall remain in full force and effect until such time when all required monitoring is completed, and it is confirmed that no further corrective action will be needed to achieve compliance with the WV/NPDES permit and all pertinent laws and rules. Failure to conduct the required monitoring, as previously described, and/or failure to complete all necessary corrective actions at the site are violations of the Order.

Should you have any questions regarding this matter, please contact me at (304) 926-0470.

  
Jeremy W. Bandy  
Chief Inspector



**Enclosure**

**cc: Brad Wright, Assistant Chief Inspector, EE/WW (via e-mail)**  
**David C. Simmons, Assistant Chief Inspector, EE (via e-mail)**  
**Laura McGee, Environmental Resources Program Manager, EE (via e-mail)**  
**Cindy Blugerman, Environmental Resources Specialist, EE (via e-mail)**  
**Tonya Mather, Environmental Inspector Supervisor, EE/WW (via e-mail)**  
**Jason Ely, Environmental Inspector Specialist, EE/WW (via e-mail)**  
**Shyrel Moellendick, MSSS, EE (via e-mail)**  
**Jay Newbaker, P.G., First Energy Corp (via e-mail)**

**SENT VIA UPS**

September 23, 2021

Mr. Yogesh Patel  
Division of Water & Waste Management  
WV Dept. Of Environmental Protection  
Waste Permitting Section  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

**RE: Rivesville Power Station  
CCR Landfill Permit No. WV0050776  
Compliance Order 9032  
Groundwater Assessment Report**

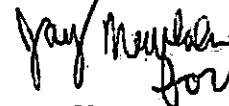
Dear Mr. Patel:

Please find enclosed four copies of the *Groundwater Assessment Report Rivesville Ash Landfill, Consent Order 9032, September 2021*. This report was prepared in response to WVDEP Consent Order 9032 dated January 26, 2020. Site investigation activities were performed in accordance with the Groundwater Assessment Plan approved by the WVDEP Division of Water and Waste Management on October 30, 2020.

Because the report indicates that there are no exceedances of the 10 ppb arsenic Groundwater Protection Standard (GWPS) at or beyond the point of compliance, no corrective measures are warranted at this time. As a result, the additional activities previously planned at the Site including preparation of Assessment of Corrective Measures and Selection of Remedy Reports are no longer necessary and the project schedule submitted to WVDEP by letter on November 24, 2020 is now withdrawn. However, continued monitoring of the permitted and newly installed wells for four consecutive semi-annual monitoring events is recommended to further assess potential arsenic trends at the Site and to verify that groundwater continues to meet GWPSs at the point of compliance.

Mon Power's obligations with regard to fulfilling all the requirements of CO No. 9032 will therefore be complete when WVDEP has reviewed and approved the enclosed report. You can contact Jay Newbaker of my staff at (724) 205-8743 or via E-mail at [enewbaker\\_IV@firstenergycorp.com](mailto:enewbaker_IV@firstenergycorp.com) if you have any questions or if you would like to discuss the groundwater assessment results in greater detail.

Sincerely,



Dave Hoone  
Supervisor, CCR and Waste Programs

Enclosures

**cc: Jeremy Bandy, Chief Inspector Env Enforcement, WVDEP Charleston**  
**Tonya Mather -- Env Inspector Supervisor, WVDEP Fairmont Regional Office**  
**Christina Facemyer. WVDEP DWWM Charleston**  
**Jay Newbaker, FE G-CH (w/o enclosure)**  
**Jim Meade, FE G-CH (w/o enclosure)**  
**Master File**

**GROUNDWATER ASSESSMENT REPORT**

**RIVESVILLE ASH LANDFILL  
CONSENT ORDER NO. 9032**

**Prepared For:**

**MONONGAHELA POWER COMPANY  
GREENSBURG, PENNSYLVANIA**

**Prepared By:**

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
PITTSBURGH, PENNSYLVANIA**

**CEC Project 193-316**

**SEPTEMBER 2021**



**Civil & Environmental Consultants, Inc.**

## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>1</b>
1.1	Site Description.....	1
1.2	Environmental Setting .....	1
1.3	Background and Purpose .....	1
<b>2.0</b>	<b>SCOPE OF WORK.....</b>	<b>3</b>
2.1	Monitoring Well Installation.....	3
2.2	Groundwater Sample Collection.....	4
<b>3.0</b>	<b>FINDINGS.....</b>	<b>5</b>
3.1	Geology.....	5
3.2	Hydrogeology .....	6
	3.2.1 Aquifers.....	6
	3.2.2 Vertical Hydraulic Gradients .....	6
	3.2.3 Groundwater Flow .....	7
3.3	Groundwater Analytical Results.....	8
	3.3.1 Summary of Analytical Results .....	8
	3.3.2 Graphical Analyses .....	9
	3.3.2.1 Box-Whisker Plots.....	9
	3.3.2.2 Time-Trend Analyses.....	10
<b>4.0</b>	<b>DISCUSSION AND RECOMMENDATIONS.....</b>	<b>11</b>
4.1	Comparison to Groundwater Protection Standards.....	11
	4.1.1 Point of Compliance .....	11
	4.1.2 Groundwater Data Compared to Groundwater Protection Standards.....	11
4.2	Conclusions and Recommendations .....	11
<b>5.0</b>	<b>LIMITATIONS.....</b>	<b>13</b>

## DRAWINGS

- Drawing 1 – Site Layout
- Drawing 2 – Geologic Cross Section
- Drawing 3 – Schematic of Groundwater Flow
- Drawing 4 – Groundwater Contour Map

## TABLES

- Table 1 – Summary of Well Construction Details
- Table 2 – Summary of Groundwater Elevation Data
- Table 3 – Vertical Hydraulic Gradients
- Table 4 – Laboratory Analytical Data Summary

**Table 5 – Comparison to Groundwater Protection Standards**

## **APPENDICES**

**Appendix A – Boring Logs and Well Completion Details**

**Appendix B – Historical Geologic Cross-Sections**

**Appendix C – Box and Whisker Plots**

**Appendix D – Time Trend Graphs**

## **1.0 INTRODUCTION**

### **1.1 SITE DESCRIPTION**

The Rivesville Power Station Coal Combustion Residuals (CCR) Landfill (Site) is a closed facility located in Marion County, West Virginia that was utilized for the disposal of CCR from the Rivesville Power Station until it closed in September 2012.

In accordance with the current groundwater monitoring program for the Site under West Virginia Department of Environmental Protection (WVDEP) National Pollutant Discharge Elimination System (NPDES)/Solid Waste Permit No. WV0050776, Monongahela Power Company (MP) monitors the five following monitoring wells on a biannual basis: MW-101, MW-103, MW-104, MW-105, and MW-106. The locations of these monitoring points are provided on Drawing 1.

### **1.2 ENVIRONMENTAL SETTING**

The Site is located in the Appalachian Plateau physiographic province and is situated in the drainage basin of an unnamed tributary that flows northeast to the Monongahela River. Surface water from the Site drains to a sedimentation basin, which discharges into the unnamed tributary of the Monongahela River through permitted National Pollution Discharge Elimination System (NPDES) Outfall No. 006.

### **1.3 BACKGROUND AND PURPOSE**

Groundwater monitoring indicated that arsenic is present in well MW-106 at concentrations that exceed the Groundwater Protection Standard (GWPS) and permit limit of 0.01 milligrams per liter (mg/L). As a result, WVDEP issued Consent Order No. 9032 to MP on January 26, 2020 to initiate an Assessment of Corrective Measures (ACM) at the Site to address exceedances of arsenic groundwater standards in accordance with 33 CSR1 §4.11.c.7.A.4. As the first step in the ACM process, a Groundwater Assessment Plan (GWAP) was prepared and submitted to the WVDEP in

October 2019 that presented a scope of work to characterize the nature and extent of elevated arsenic concentrations at the Site. The GWAP was approved by WVDEP on October 30, 2020.

This purpose of this report is to document the results of the groundwater assessment.



## **2.0 SCOPE OF WORK**

The goal of this groundwater assessment was to characterize the nature and extent of arsenic at the Site and to determine the direction of groundwater flow in the vicinity of MW-106. The locations of the proposed wells were chosen to provide groundwater elevation and water quality data to assess groundwater flow directions and determine if dissolved arsenic concentrations meet the GWPS of 0.01 mg/L at the point of compliance.

### **2.1 MONITORING WELL INSTALLATION**

A West Virginia certified driller was subcontracted to install three new monitoring wells (MW-107A, MW-107B, and MW-108B) at the locations shown on Drawing 1. The MW-107A/B well cluster was installed approximately 250 feet west-northwest of MW-106. Well MW-108B was installed approximately 325 feet to the north of MW-106. Wells MW-107B and MW-108B were installed in a similar zone within the Benwood Limestone as MW-106. Well MW-107A was installed higher in the strata to estimate the vertical gradient. A summary of well construction details is provided in Table 1.

Boreholes for the monitoring wells were advanced using 4.25-inch diameter hollow-stem augers to the top of bedrock. The boreholes for the "B-series" monitoring wells were advanced into bedrock using NQ coring so that the bedrock could be described and the screened intervals could be determined. The boreholes were then reamed using a 6-inch air rotary bit so that the borehole diameter was large enough to install a 2-inch PVC monitoring well. The "A-series" monitoring well was installed to its target depth using a 6-inch air rotary bit.

Each well was constructed with ten feet of schedule 40 PVC machine-slotted screen and solid PVC riser to the ground surface. The annulus was filled with clean quartz sand to approximately two feet above the screen. The remaining annulus was filled with hydrated bentonite. The wells were completed with locking steel protective covers and a concrete pad. Boring logs and well completion information are presented in Appendix A.

Following installation, each newly constructed well was developed by bailing, pumping and/or surging to clean the filter pack and reduce sample turbidity. After installation, the wells were surveyed for location and top-of-casing elevation by a licensed professional surveyor.

## 2.2 GROUNDWATER SAMPLE COLLECTION

To assess water quality in the newly installed wells, two samples were collected on a quarterly basis for the sample parameters identified in the table below. One sampling event coincided with the bi-annual sampling event at the Site.

Sample parameters:

<b>General Chemistry</b>	
Sulfate	Specific Conductance
Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)
Temperature	pH
<b>Metals (Dissolved)</b>	
Arsenic	

## 3.0 FINDINGS

### 3.1 GEOLOGY

The Site is located in the Appalachian Plateau physiographic province. Bedrock at the Site is overlain by up to 30 feet of residuum/colluvium consisting primarily of residual clay with varying amounts of sand, silt, and weathered rock fragments. Underlying the residuum/colluvium are stratigraphic units of the Pennsylvanian-aged Monongahela and Conemaugh Groups.

The Monongahela group includes those strata extending from the top of the Uniontown Coal, which is not present beneath the Site, to the base of the Pittsburgh Coal. The Monongahela Group consists of non-marine sequences of sandstone, siltstone, and shale and contains persistent limestone and coal beds. The Conemaugh Group, which consists of cyclic sequences of shale, siltstone, and sandstone containing thin limestones and coals, underlies the Monongahela Group. Coal beds of the Monongahela Group are more frequent, persistent, and minable than those in the Conemaugh Group, and limestones in the Monongahela Group are generally more thickly developed than in the Conemaugh Group.

Three common marker beds of the Monongahela Group, known as the Benwood Limestone, Sewickley Coal, and Pittsburgh Coal, have been identified at the Site. The Benwood Limestone is a thick limestone interbedded with limy siltstones and shales, and is present at the Site beneath approximately 25 feet of shale. The Sewickley Coal horizon is present beneath the Benwood Limestone. The Sewickley Coal is underlain by a massive sandstone (Sewickley Sandstone), below which is a sequence of shales, siltstone, limestone, and the Pittsburgh Sandstone. Underlying the Pittsburgh Sandstone is the Pittsburgh Coal horizon, which forms the contact between the Monongahela and underlying Conemaugh Groups. Bedrock dips gently to the northwest at about 10 degrees, nearly opposite the surficial slope within the drainage valley.

The Sewickley coal crops out at an elevation of approximately 930 feet above mean sea level (ft. AMSL) to the southwest of the Site along Parker Run, and beneath the ash landfill at an elevation of approximately 1,020 ft. AMSL. The Pittsburgh coal crops out at an elevation of approximately

890 ft. AMSL to the southwest of the Site along Parker Run, and at an elevation of approximately 980 ft. AMSL in the drainage valley in the eastern portion of the Site. Historic drilling at the Site indicates that mine voids were encountered in the Sewickley and Pittsburgh coal horizons beneath the Site and both coals have been extensively mined beneath the Site.

Boring logs for recently installed wells MW-107A/B and MW-108B are provided in Appendix A. A geologic cross section that was prepared using information obtained during drilling of MW-107A/B and historical information obtained during previous investigations at the Site is provided in Drawing 2. Additional geologic cross sections that were previously prepared using geologic information generated during previous drilling programs at the Site are provided in Appendix B.

## **3.2 HYDROGEOLOGY**

### **3.2.1 Aquifers**

Stress-relief fracturing and weathering in the Appalachian Plateau have combined to create a more permeable "rind" over the surfaces of the hills. This rind forms the uppermost aquifer at the Site, and cuts across the pre-existing strata. Beneath the rind are two informal bedrock aquifers that have previously been defined beneath the Site. "Zone 1" is the strata above the Sewickley Coal, and "Zone 2" is the strata between the Sewickley and Pittsburgh Coals.

### **3.2.2 Vertical Hydraulic Gradients**

At location MW-107, where two wells were installed at varying depths, the vertical hydraulic gradients were calculated by dividing the difference in potentiometric head between the well pair by the difference in elevation between the midpoints of the screens for the well pair. Depth to water and groundwater elevation data are summarized in Table 2. The calculated vertical hydraulic gradients are summarized in Table 3.

The calculated vertical hydraulic gradients at MW-107 are downward and ranged from -1.01 to -1.20, with an average gradient of -1.10. This indicates a strong downward component of

groundwater flow at this location. This is expected since MW-107B is located above the free-draining mine workings of the Sewickley coal. Observations made during drilling of these wells indicate that a loss of coring return water occurred at approximately 155 feet below ground surface. This portion of the strata is likely highly fractured and has a strong downward component of groundwater flow into the mine workings.

### 3.2.3 Groundwater Flow

Conceptually, groundwater flow at the Site includes one or a combination of the following components (Drawing 3):

- Groundwater flow follows the contours of the original valley eastward beneath the landfill until it is intercepted by the mine voids within the Sewickley and Pittsburgh coals,
- Groundwater within fractured strata above the mine workings flows primarily downward into the mine voids within the Sewickley and Pittsburgh coals, and/or
- Groundwater flows west within the mine voids in the direction of bedrock dip.

Historical drilling performed at the Site revealed that the Sewickley and Pittsburgh coal horizons were not flooded. The lack of water in the mine workings indicates water within the mines is freely draining in the direction of bedrock dip to the west. Within Zone 1 above the Sewickley mine workings (e.g. MW-101 and MW-107A), groundwater flow converges toward the valley from surrounding uplands and flows eastward along the center of the historical valley beneath the Site, until the Sewickley mine workings are shallow enough to affect groundwater flow. Water from Zone 1 that enters the mine workings flows along the dip direction, which is to the northwest at about 10 degrees. Some of the water likely infiltrates through the mine floor and into the underlying strata, providing recharge to Zone 2. Within Zone 2, between the Sewickley and Pittsburgh mine workings, groundwater flows toward the northeast until it's intercepted by the Pittsburgh mine workings.

Potentiometric surface contours were created utilizing groundwater elevation data obtained during the biannual monitoring event conducted in May 2021 (Drawing 4). The contours for Zone 1 were

estimated using groundwater elevation data for wells MW-106, MW-107B and MW-108B, which are installed in a similar zone within the Benwood Limestone. Because wells MW-107A and MW-101 are located higher in the section, groundwater elevation data from these wells were not used in contouring. The potentiometric contours show horizontal groundwater flow in Zone 1 to the west/southwest. There is also a large component of downward flow toward the Sewickley Coal. Once the water enters the mine workings, flow follows the dip direction.

The contours for Zone 2 were estimated using groundwater elevation data for wells MW-103, MW-104 and MW-105, which are installed in a similar zone within Zone 2. The potentiometric contours for Zone 2 indicated horizontal groundwater flow to the northeast.

Based on the current groundwater contours and historical information, monitoring well MW-101 is located upgradient of the landfill, MW-108B is located cross gradient of the landfill, and wells MW-103, MW-104, MW-105, MW-106 and MW-107B are located downgradient of the landfill. There is insufficient data to determine the relative position of MW-107A with regard to groundwater flow direction; however, based on topography and well depth, it is likely upgradient of the landfill.

### **3.3 GROUNDWATER ANALYTICAL RESULTS**

#### **3.3.1 Summary of Analytical Results**

Analytical results for the two quarterly groundwater samples collected from the newly installed wells and the 2021 bi-annual samples collected from the existing wells are presented on Table 4. Well MW-107B could only be sampled once because the well only contained several inches of water during the first sampling event.

### 3.3.2 Graphical Analyses

#### 3.3.2.1 *Box-Whisker Plots*

To evaluate potential groundwater impacts attributable to the Site, box and whisker plots were prepared for arsenic, sulfate and total dissolved solids (TDS) (Appendix C). Non-detect results were graphed at the reporting limit. For previously existing wells MW-101, MW-103, MW-104, MW-105 and MW-106, available data from the past five years were plotted (2017 to present). Sulfate and TDS are likely the most reliable indicator parameters for groundwater impacts as they are expected to be present at high concentrations within the fly ash, are highly mobile in the subsurface, and are not affected by redox conditions. In contrast, elevated dissolved arsenic concentrations in groundwater may not be the result of leaching from the disposed fly ash, but may be caused by changes within the aquifer (e.g. redox conditions) that are mobilizing naturally occurring arsenic. Therefore, arsenic is likely not a reliable indicator for the presence of groundwater impacts attributed to the Site.

The box and whisker plots show that sulfate and TDS are elevated in wells MW-103, MW-104, MW-105, MW-106 and MW-107B compared to wells MW-101, MW-107A and MW-108B. Sulfate and TDS concentrations are similar at wells MW-101, MW-107A and MW-108B. Based on their locations relative to the landfill (upgradient or cross-gradient) and concentrations of these indicator parameters, wells MW-101, MW-107A and MW-108B represent background water quality at the Site, while the remaining wells display groundwater impacts attributable to the landfill. Arsenic is elevated at MW-106, and slightly elevated at MW-107A, compared to the other wells. Because well MW-107A represents background water quality, the slightly elevated arsenic concentrations are not attributed to the landfill, but are likely attributable to the fact that this well was recently installed. It has been our experience that arsenic concentrations in a well can be elevated immediately after installation, but decrease as the well stabilizes following installation. Although arsenic concentrations in MW-106 appear to be attributable to the landfill, as noted above this may not be the result of leaching from the fly ash, but may be caused by other changes in the aquifer created by the presence of the landfill, such as localized altered redox conditions.

### **3.3.2.2 Time-Trend Analyses**

Time-trend graphs were prepared for arsenic, sulfate and TDS (Appendix D). For graphing purposes, non-detect results were graphed at the reporting limit. For previously existing wells MW-101, MW-103, MW-104, MW-105 and MW-106, available data from the past five years were graphed (2017 to present). A summary of the time-trend analyses is provided below. Because wells MW-107A, MW-107B and MW-108B were recently installed, a discussion of trends is premature and water quality may still be stabilizing following well installation.

- **MW-101: Sulfate is decreasing.**
- **MW-103: No trends of note.**
- **MW-104: No trends of note.**
- **MW-105: TDS and sulfate are decreasing.**
- **MW-106: No significant trends of note over the past 5 years. However, older data (not shown) shows that arsenic began increasing circa 2010.**
- **MW-107A: Arsenic decreased in the second sample.**
- **MW-107B: Only one sample was collected.**
- **MW-108B: Sulfate and TDS increased in the second sample.**



## **4.0 DISCUSSION AND RECOMMENDATIONS**

### **4.1 COMPARISON TO GROUNDWATER PROTECTION STANDARDS**

#### **4.1.1 Point of Compliance**

In accordance with 33 CSR1 §4.5.d.1.G.1, the point of compliance for meeting the GWPS is 150 meters (492 feet) from the waste management unit boundary, or the MP property line, whichever is closer. As shown on Drawing 1, the MP property line is located within 150 meters of the waste boundary with a few exceptions; therefore, the point of compliance at the majority of the Site is the property boundary. To the northeast and southwest of the landfill, the point of compliance is 150 meters from the landfill boundary.

#### **4.1.2 Groundwater Data Compared to Groundwater Protection Standards**

Analytical results for the two quarterly groundwater samples collected from the newly installed wells and the 2021 bi-annual samples collected from the existing wells are compared to the West Virginia GWPS/permit limits in Table 5. Well MW-106 is the only well that contained arsenic at a concentration that is greater than the GWPS of 0.01 mg/L. The remaining wells either contained concentrations of arsenic that were considerably less than the GWPS, or arsenic was not detected at concentrations that were greater than the laboratory method detection limit. Therefore, the extent of elevated arsenic concentrations in excess of the GWPS is limited to MW-106.

### **4.2 CONCLUSIONS AND RECOMMENDATIONS**

Based on the findings of this groundwater assessment, groundwater at the Site has been impacted by the closed ash landfill at monitoring wells MW-103, MW-104, MW-105, MW-106 and MW-107B; however, the only constituent that exceeds permit limits or GWPSs is arsenic in well MW-106 located immediately adjacent to the landfill waste boundary and well within the point of compliance. Newly installed monitoring wells MW-107A/B and MW-108 that were placed near the MP property line do not contain arsenic at concentrations that are greater than the GWPS.

Additional corrective measures are not warranted at this time because there are no exceedances of the GWPS at or beyond the point of compliance. However, we recommend continued monitoring of the permitted and newly installed wells for a minimum of four consecutive semi-annual monitoring events to further assess potential trends in arsenic at the Site and verify that groundwater continues to meet the applicable GWPSs at the point of compliance. Following completion of the four semi-annual monitoring events, the data will be evaluated and a determination will be made regarding whether continued monitoring of the newly installed wells is warranted.

## 5.0 LIMITATIONS

This report has been prepared in keeping with accepted standards of practice for preparation of environmental assessments and using CEC's professional judgment. CEC makes no claim as to the presence or absence of contamination except at the time of sampling and for the specific locations and parameters tested during the investigation. No warranties, either expressed or implied, are made herein.

Chemical data presented in this report are applicable to the location, time of sample collection, and the parameters analyzed. Chemical conditions may change with time. Reported conditions may not represent current or future conditions. Chemical concentrations between sampling points may differ.

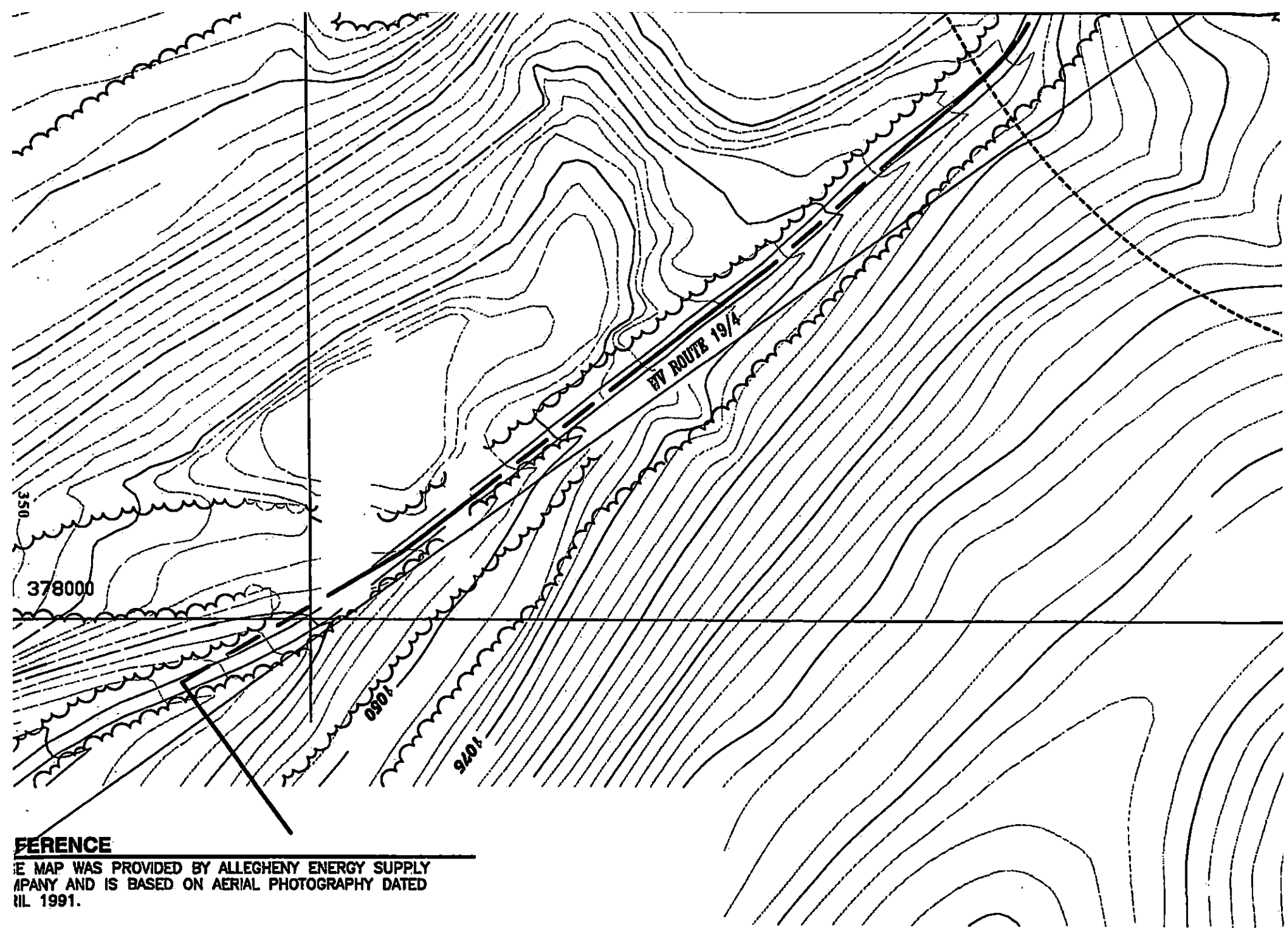
The water levels presented in this report are applicable to the location and time of measurement. Water levels may fluctuate through time. Water table contours generated from this data are constructed by interpolation between points of known static water levels elevations and using knowledge of specific site conditions. Actual static water levels at locations between the monitoring points may differ from those depicted.

The boring logs and related information presented in this report depict subsurface conditions at the test boring locations at the time of drilling. Subsurface geologic conditions at other locations may differ. Geologic correlations shown between borings generally are based on straight-line interpolation. Actual conditions between test borings may differ.

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**DRAWINGS**

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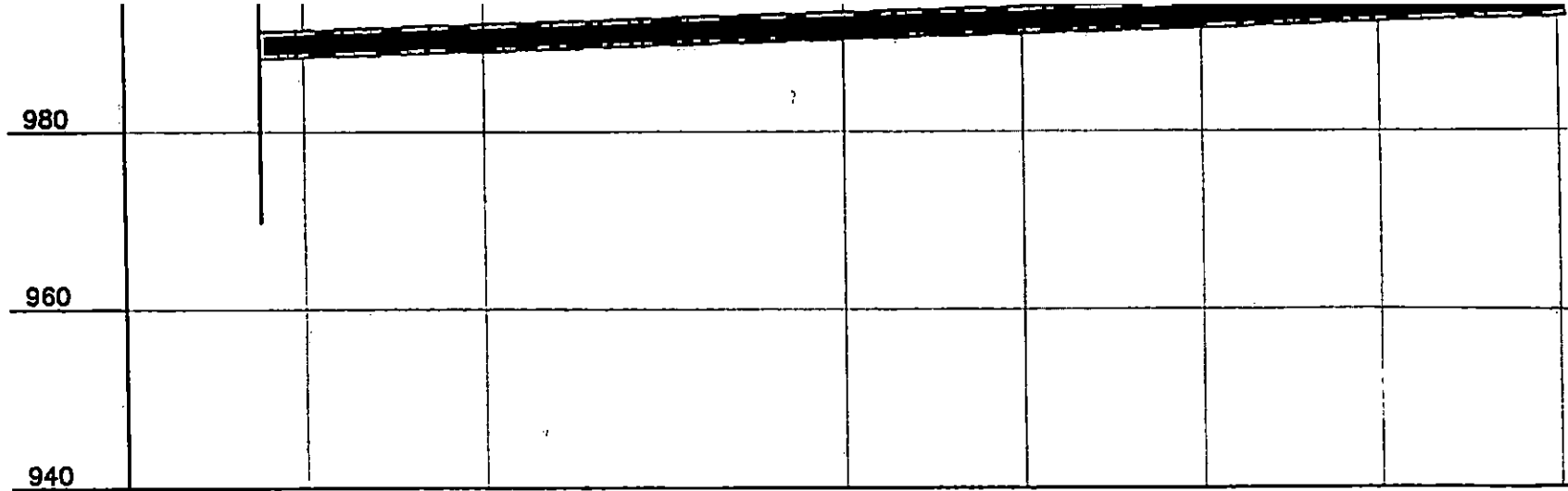


**REFERENCE**

THE MAP WAS PROVIDED BY ALLEGHENY ENERGY SUPPLY COMPANY AND IS BASED ON AERIAL PHOTOGRAPHY DATED APRIL 1991.

8

7



**LEGEND**



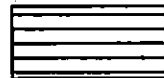
UNCONSOLIDATED MATERIAL



LIMESTONE



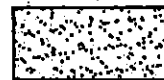
SILTSTONE



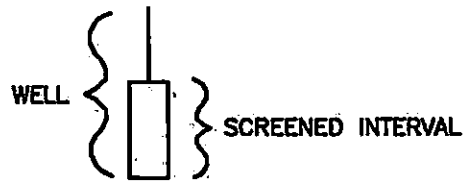
SHALE/CLAYSTONE



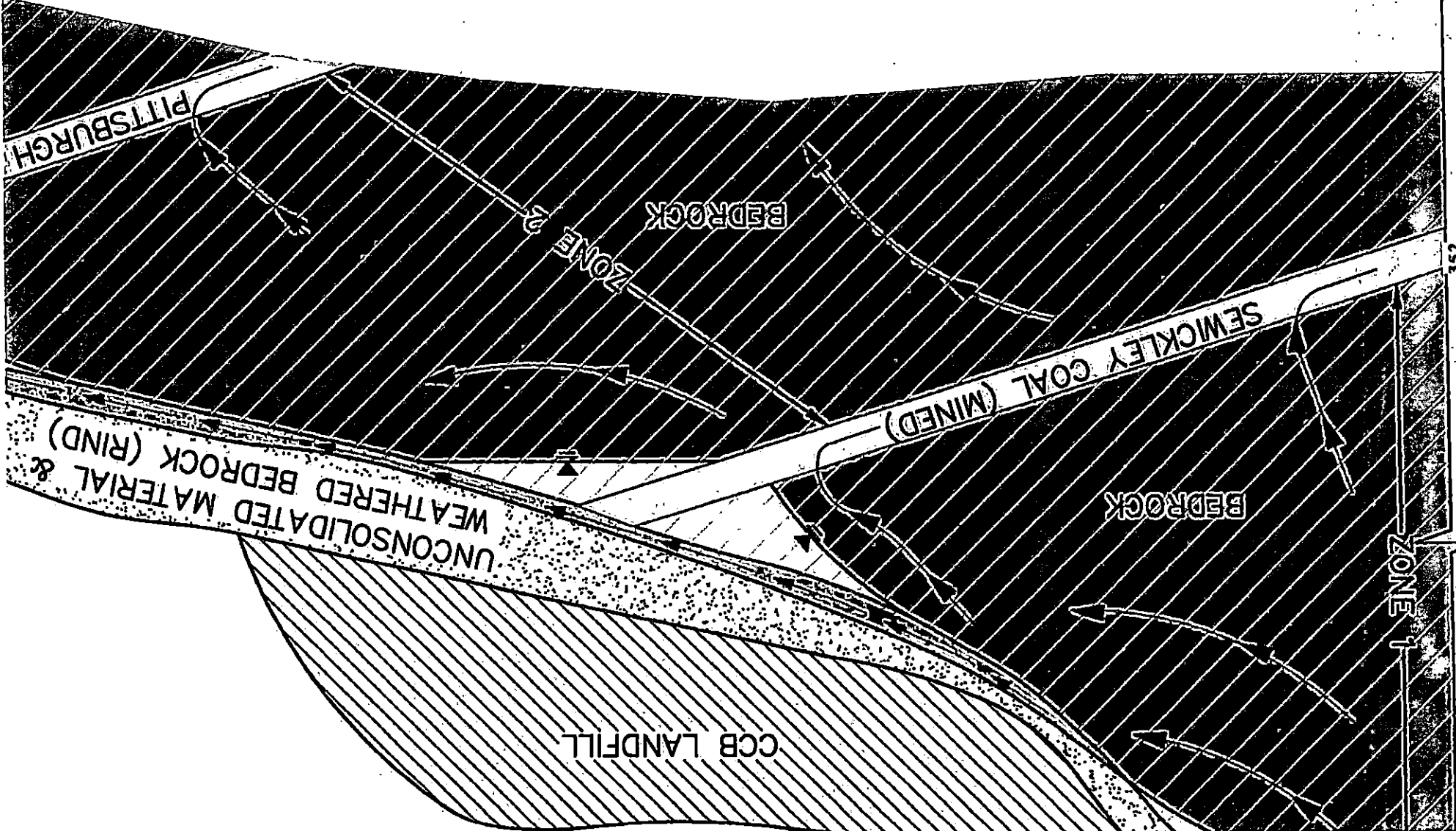
COAL



SANDSTONE



351



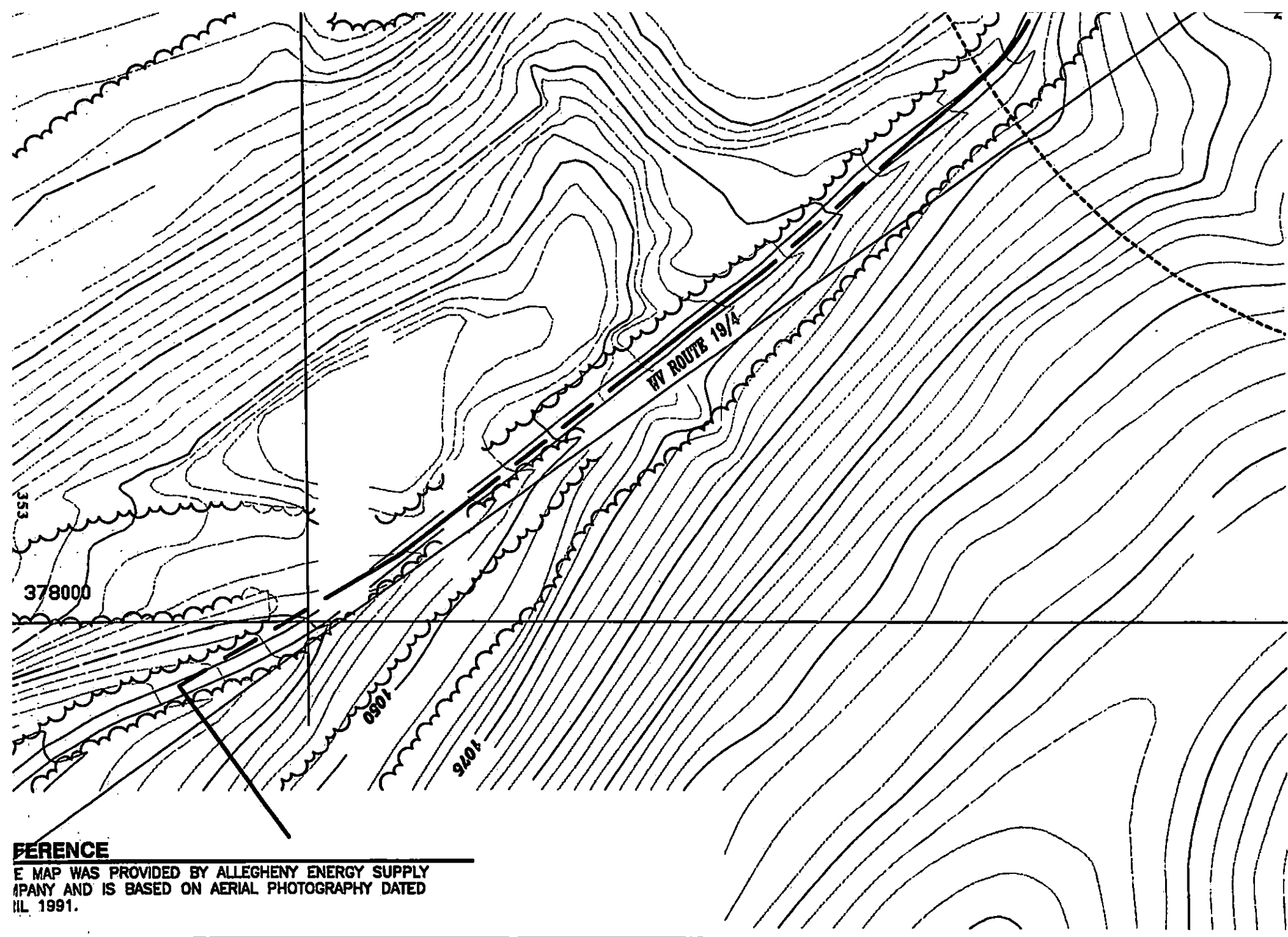
CONDITIONS

PRESENTED HEREIN ARE APPLICABLE TO THE  
 OF MEASUREMENT. WATER LEVELS MAY  
 VARY WITH TIME.

INTOURS GENERATED FROM THIS DATA ARE  
 INTERPOLATION BETWEEN POINTS OF KNOWN STATIC  
 WATER LEVELS AT LOCATIONS BETWEEN  
 STATIONS AND USING KNOWLEDGE OF SPECIFIC SITE  
 CONDITIONS. WATER LEVELS MAY VARY WITH TIME.  
 INTOURS MAY DIFFER FROM THOSE DEPICTED.

DATE:	AUGUST 2021	DWG SCALE:
DRAWN BY:	JAH	CHECKED BY:
www.cectnc.com 333 Baldwin Road • Pittsburgh, PA 15205 412-428-2324 • 800-365-2324		

**Civil & Environmental Consultants,**



**REFERENCE**  
THIS MAP WAS PROVIDED BY ALLEGHENY ENERGY SUPPLY COMPANY AND IS BASED ON AERIAL PHOTOGRAPHY DATED APRIL 1991.

8

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**TABLES**

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**Table 1**  
**Summary of Well Construction Details**  
**Rivesville Ash Landfill Groundwater Assessment**  
**Monongahela Power Company**  
**Rivesville Ash Landfill, Rivesville, West Virginia**  
**CEC Project: 193-316**

Well	Date Installed	Casing Diameter (In)	DEPTHS (ft)						ELEVATIONS (ft AMSL)				Location	
			Bottom of Boring	Bottom of Sand	Bottom of Screen	Top of Screen	Top of Sand	Top of Plug	Top of Casing	Ground	Top of Screen	Bottom of Screen	Latitude	Longitude
MW-101	6/26/1992	1.5	45.6	45.1	45.1	25.1	23	21	1202.16	1200	1175	1155	39°32'14.74"	80°05'41.22"
MW-103	5/6/2003	2	60	49	48	28	23	7.5	1036.69	1035	1007	987	39°32'25.28"	80°05'31.72"
MW-104	6/19/1992	1.5	25.1	25.1	25.1	10.1	8	6	998.57	996	986	971	39°32'25.51"	80°05'27.25"
MW-105	5/5/2003	2	70	54	50	30	25	7.5	1044.82	1043	1013	993	39°32'22.71"	80°05'28.07"
MW-106	6/26/1997	2	109	100	99	89	85	3	1149.13	1150	1060	1050	39°32'23.77"	80°05'40.92"
MW-107A	12/8/2020	2	100	100	100	90	88	1	1177.52	1175	1085	1075	39°32'23.45"	80°05'45.77"
MW-107B	12/7/2020	2	167	150	148	138	136	1	1176.99	1174	1036	1026	39°32'23.35"	80°05'45.74"
MW-108B	12/10/2020	2	140	140	140	130	128	1	1194.28	1191	1061	1051	39°32'25.95"	80°05'43.64"

**Table 2**

**Summary of Groundwater Elevation Data  
Rivesville Ash Landfill Groundwater Assessment  
Monongahela Power Company  
Rivesville Ash Landfill, Rivesville, West Virginia  
CEC Project: 193-316**

<b>Well:</b>	<b>MW-101</b>	<b>MW-103</b>	<b>MW-104</b>	<b>MW-105</b>	<b>MW-106</b>	<b>MW-107A</b>		<b>MW-107B</b>		<b>MW-108B</b>	
<b>Date:</b>	<b>5/11/21</b>	<b>5/6/21</b>	<b>5/6/21</b>	<b>5/6/21</b>	<b>5/6/21</b>	<b>2/11/21</b>	<b>5/11/21</b>	<b>2/11/21</b>	<b>5/12/21</b>	<b>2/11/21</b>	<b>5/12/21</b>
<b>Aquifer:</b>	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 2</b>	<b>Zone 2</b>	<b>Zone 1</b>	<b>Zone 1</b>		<b>Zone 1</b>		<b>Zone 1</b>	
<b>Top of Casing Elev. (ft AMSL):</b>	<b>1202.16</b>	<b>1036.69</b>	<b>998.57</b>	<b>1044.82</b>	<b>1149.13</b>	<b>1177.52</b>		<b>1176.99</b>		<b>1194.28</b>	
<b>Depth to Water (ft):</b>	<b>32.68</b>	<b>25.20</b>	<b>4.35</b>	<b>22.48</b>	<b>92.35</b>	<b>92.75</b>	<b>90.86</b>	<b>Dry</b>	<b>139.72</b>	<b>131.20</b>	<b>129.3</b>
<b>Groundwater Elev. (ft AMSL):</b>	<b>1169.48</b>	<b>1011.49</b>	<b>994.22</b>	<b>1022.34</b>	<b>1056.78</b>	<b>1084.77</b>	<b>1086.66</b>	<b>NA</b>	<b>1037.27</b>	<b>1063.08</b>	<b>1064.98</b>

**Table 3**  
**Vertical Hydraulic Gradients**  
**Rivesville Ash Landfill Groundwater Assessment**  
**Monongahela Power Company**  
**Rivesville Ash Landfill, Rivesville, West Virginia**  
**CEC Project: 193-316**

Well Pair	Monitored Zone	Midpoint of Screen (ft amsl)	Groundwater Elevation (ft amsl)		Vertical Gradient (unitless)	
			2/11/2021	5/12/2021	2/11/2021	5/12/2021
MW-107A	Limestone	1079.91	1084.77	1086.66	-1.20	-1.01
MW-107B	Benwood Limestone	1031.14	1026.40	1037.27		

**Footnotes:**

Positive vertical gradient indicates upward direction, negative vertical gradient indicates downward direction

**Table 4**  
**Laboratory Analytical Data Summary**  
**Rivesville Ash Landfill Groundwater Assessment**  
**Monongahela Power Company**  
**Rivesville Ash Landfill, Rivesville, West Virginia**  
**CEC Project: 193-316**

Well ID:	MW-101	MW-103	MW-104	MW-105	MW-106	MW-107A		MW-107B		MW-108B	
Date Sampled:	5/11/21	5/6/21	5/6/21	5/6/21	5/6/21	2/11/21	5/11/21	2/11/21	5/12/21	2/11/21	5/12/21
Aquifer:	Zone 1	Zone 2	Zone 2	Zone 2	Zone 1	Zone 1		Zone 1		Zone 1	
Formation:	Limestone/ Shale	Sewickly Sandstone/ Limestone	Sandstone/ Shale	Limestone	Benwood Limestone	Limestone		Benwood Limestone		Benwood Limestone	
<b>Dissolved Metals</b>											
Arsenic (mg/L)	<0.00032	<0.00032	<0.00032	<0.00032	0.067	0.0056	0.0010	Dry	<0.00032	0.000332 J	<0.00032
<b>General Chemistry</b>											
pH (SU)	7.33	6.76	6.90	7.22	6.65	7.72 H	7.54	--	7.35	7.22 H	7.10
Conductivity (umho/cm)	713	2278	750	754	2761	792	785	--	1983	892	1017
TSS (mg/L)	<4	<4	<4	<4	16	958	750	--	1277	2192	134
TDS (mg/L)	508	2290	516	550	2560	520	544	--	1560	584	688
Sulfate (mg/L)	96	1060	181	192	1030	103	108	--	573	91	145

**Footnotes:**  
 J - Result is less than the reporting limit but greater than the method detection limit and is an estimated value.  
 H - Analyte was analyzed beyond the method hold time.

Table 5  
 Comparison to Groundwater Protection Standards  
 Rivesville Ash Landfill Groundwater Assessment  
 Monongahela Power Company  
 Rivesville Ash Landfill, Rivesville, West Virginia  
 REC Project: 193-316

Well ID:		MW-101	MW-103	MW-104	MW-105	MW-106	MW-107A	MW-107A	MW-107B	MW-107B	MW-108B	MW-108B
Date Sampled:		5/11/21	5/6/21	5/6/21	5/6/21	5/6/21	2/11/21	5/11/21	2/11/21	5/12/21	2/11/21	5/12/21
Aquifer:	WV	Zone 1	Zone 2	Zone 2	Zone 2	Zone 1	Zone 1		Zone 1		Zone 1	
Formation:	GWPS*	Limestone/ Shale	Sewickly Sandstone/ Limestone	Sandstone/ Shale	Limestone	Benwood Limestone	Limestone		Benwood Limestone	Benwood Limestone		
<b>Dissolved Metals</b>												
Arsenic (mg/L)	0.01	<0.00032	<0.00032	<0.00032	<0.00032	0.067	0.0056	0.0010	Dry	<0.00032	0.000332	<0.00032
<b>General Chemistry</b>												
pH (SU)	NSE	7.33	6.76	6.90	7.22	6.65	7.72 H	7.54	--	7.35	7.22 H	7.10
Conductivity (umho/cm)	NSE	713	2278	750	754	2761	792	785	--	1983	892	1017
TSS (mg/L)	NSE	<4	<4	<4	<4	16	958	750	--	1277	2192	134
TDS (mg/L)	NSE	508	2290	516	550	2560	520	544	--	1560	584	688
Sulfate (mg/L)	NSE	96	1060	181	192	1030	103	108	--	573	91	145

**Footnotes:**  
 NSE - No standard established  
 \* - Groundwater Protection Standard (GWPS) established at West Virginia Legislative Rule §33-1-4.11.c.8.B.1

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**APPENDIX A**

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**MONITORING WELL NUMBER MW-107A**



Civil & Environmental Consultants, Inc.  
333 Baldwin Road  
Pittsburgh, PA 15205-1751

<b>CLIENT</b> <u>First Energy</u>	<b>PROJECT NAME</b> <u>Rivesville Ash Landfill</u>
<b>PROJECT NUMBER</b> <u>193-316</u>	<b>PROJECT LOCATION</b> <u>Rivesville, WV</u>
<b>DATE STARTED</b> <u>12/07/2020</u>	<b>DATE COMPLETED</b> <u>12/08/2020</u>
<b>CEC FIELD REPRESENTATIVE</b> <u>EAM</u>	<b>REVIEWED BY</b> <u>BEK</u>
<b>GROUND ELEVATION</b> <u>1175.00 ft amsl</u>	<b>CASING ELEVATION</b> <u>1177.52 ft amsl</u>
<b>LATITUDE</b> <u>39.539846</u>	<b>LONGITUDE</b> <u>-80.096047</u>
<b>DRILLING CONTRACTOR</b> <u>Terra Testing, Inc.</u>	<b>DRILLER</b> <u>Tom Canton</u>
<b>DRILLING METHOD</b> <u>6-1/4-in HSA + Air Hammer</u>	<b>BACKFILL</b> <u>2" Monitoring Well Installed</u>
<b>BOREHOLE DIAMETER</b> <u>6.00 in</u>	<b>CORE SIZE</b> <u>NA</u>
<b>MONITORING EQUIPMENT</b> <u>NA</u>	<b>OUTER CASING</b> <u>Steel</u>
<b>WELL INSTALLED</b> <u>12/08/2020</u>	<b>WELL STICKUP</b> <u>Stickup (Default), 2.5 ft</u>
<b>DEVELOPMENT METHOD</b> <u>Bailing</u>	<b>WELL KEY</b> <u>CEC Lock</u>
<b>RESULTS</b> <u>Mostly Clear</u>	<b>NOTES</b>
<b>YIELD</b> <u>17.75 gal</u>	

**WATER LEVELS:**

- ☒ At Time of Drilling: NA
- ☒ End of Drilling: 12/07/2020 99.85 ft bgs / Elev 1075.15 ft amsl
- ☒ After Drilling: 12/08/2020 90.15 ft bgs / Elev 1084.85 ft amsl
- ☒ Temporary Well: NA
- ☒ Permanent Well: NA

NA - Not Available; bgs - below ground surface; amsl - above mean sea level

DEPTH (ft)	GRAPHIC LOG	U.S.C.S.	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM
0				<i>For lithologic description, see boring log for well MW-107B.</i>	1175		Concrete Pad 3x3'
5					1165	AU1	
10					1155	AH-1	
15					1145	AH-2	2-inch PVC Riser
20					1135	AH-3	Bentonite Chips





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# MONITORING WELL NUMBER MW-107A

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM	
45				<i>For lithologic description, see boring log for well MW-107B.</i>		AH-4	<p>2-inch PVC Riser</p> <p>Bentonite Chips</p> <p>Hydrated Bentonite Pellets</p> <p>Clean Quartz Sand</p> <p>0.01" Slotted Screen</p>	
50					1125			
55						AH-5		
60						1115		
65						AH-6		
70						1105		
75						AH-7		
80						1095		
85						AH-8		
80					1085			
85					AH-9			
100				End of boring at 100.0 feet	1075.0			
105					1065			
110								
115								

# MONITORING WELL NUMBER MW-107B



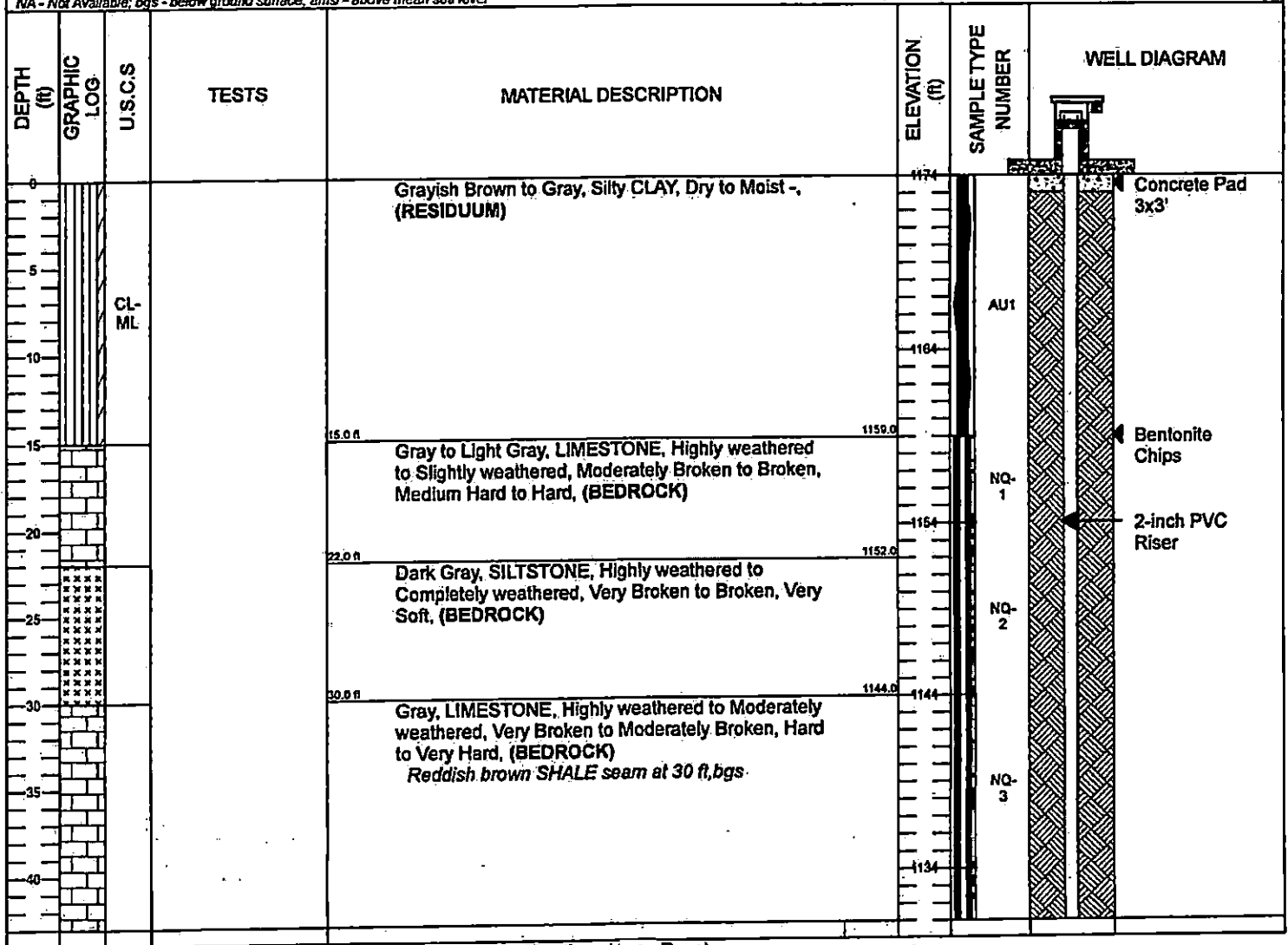
Civil & Environmental Consultants, Inc.  
333 Baldwin Road  
Pittsburgh, PA 15205-1751

<p><b>CLIENT</b> <u>First Energy</u></p> <p><b>PROJECT NUMBER</b> <u>193-316</u></p> <p><b>DATE STARTED</b> <u>11/30/2020</u></p> <p><b>CEC FIELD REPRESENTATIVE</b> <u>EAM</u></p> <p><b>GROUND ELEVATION</b> <u>1174.00 ft amsl</u></p> <p><b>LATITUDE</b> <u>39.539821</u></p> <p><b>DRILLING CONTRACTOR</b> <u>Terra Testing, Inc.</u></p> <p><b>DRILLING METHOD</b> <u>6-1/4-in Hollow Stem Auger + NQ Core</u></p> <p><b>BOREHOLE DIAMETER</b> <u>6.00 in</u></p> <p><b>MONITORING EQUIPMENT</b> <u>NA</u></p> <p><b>WELL INSTALLED</b> <u>12/07/2020</u></p> <p><b>DEVELOPMENT METHOD</b> <u>Bailing</u></p> <p><b>RESULTS</b> <u>Cloudy</u></p> <p><b>YIELD</b> <u>3.5 gal</u></p>	<p><b>PROJECT NAME</b> <u>Rivesville Ash Landfill</u></p> <p><b>PROJECT LOCATION</b> <u>Rivesville, WV</u></p> <p><b>DATE COMPLETED</b> <u>12/07/2020</u></p> <p><b>REVIEWED BY</b> <u>BEK</u></p> <p><b>CASING ELEVATION</b> <u>1176.99 ft amsl</u></p> <p><b>LONGITUDE</b> <u>-80.096038</u></p> <p><b>DRILLER</b> <u>Tom Canton</u></p> <p><b>BACKFILL</b> <u>2" Monitoring Well Installed</u></p> <p><b>CORE SIZE</b> <u>2.0 in</u></p> <p><b>OUTER CASING</b> <u>Steel</u></p> <p><b>WELL STICKUP</b> <u>Stickup (Default), 3.0 ft</u></p> <p><b>WELL KEY</b> <u>CEC Lock</u></p> <p><b>NOTES</b></p>
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**WATER LEVELS**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> At Drilling: 12/01/2020 87.00 ft bgs / Elev 1087.00 ft amsl</li> <li><input checked="" type="checkbox"/> End of Drilling: 12/07/2020 146.75 ft bgs / Elev 1027.25 ft amsl</li> <li><input checked="" type="checkbox"/> After Drilling: 12/08/2020 146.95 ft bgs / Elev 1027.05 ft amsl</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Temporary Well: NA</li> <li><input type="checkbox"/> Permanent Well: NA</li> </ul> |
|--|--|

NA - Not Available; bgs - below ground surface; amsl - above mean sea level





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Pittsburgh, PA 15205-1751

# MONITORING WELL NUMBER MW-107B

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM	
45	[Graphic Log: 45-80 ft section with 'x' pattern]			45.0 ft Gray, LIMESTONE, Highly weathered to Moderately weathered, Very Broken to Moderately Broken, Hard to Very Hard, (BEDROCK)	1129.0	NQ-4		
50				Gray to Light Gray, SILTSTONE, Highly weathered to Slightly weathered, Very Broken to Moderately Broken, Hard to Very Hard, Limey, Laminated, Fine Sand laminations 71-72.8 ft,bgs (BEDROCK)	1124	NQ-5		
55					1114	NQ-6		
60					1104	NQ-7		
65								
70								
75								
80				80.0 ft	1094.0	1094		NQ-8
85								
90								
95								
100								
105								
110								
115								

**MONITORING WELL NUMBER MW-107B**



Civil & Environmental Consultants, Inc.  
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Pittsburgh, PA 15205-1751

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM
120				Brownish Gray to Greenish Gray, Limestone and siltstone, slightly weathered, slightly broken to moderately broken, soft to medium hard, interbedded, vertical fracture 114.45-114.50 ft, bgs (BEDROCK) Light Gray to Greenish Gray CLAYSTONE seam	1054.0		
125					HQ-12		
130				130.0 ft Light Gray to Dark Gray, siltstone and claystone, moderately weathered to slightly weathered, slightly broken to moderately broken, soft to medium hard, laminated, shaley weathered out seam 136-137 ft, bgs (BEDROCK)	1044.0		HQ-13
135							
140							
145				145.0 ft Completely weathered seam (144.7 ft, bgs)	1020.0		HQ-14
150				Brownish Gray to Light Gray, limestone, slightly weathered to moderately weathered, moderately broken to slightly broken, medium hard to hard, sandy, thin bedded, fine to medium, interbedded, loss of down hole core water at ~155 ft, bgs (BEDROCK)	1024.0		
155				155.0 ft Brownish Gray to Light Gray, claystone, slightly weathered to moderately weathered, broken to slightly broken, soft to medium hard, laminated, some calcareous laminations (BEDROCK)	1018.0		HQ-15
160							
165							
167.0				167.0 ft End of boring at 167.0 feet	1007.0		HQ-16
170							
175							
180							
185							
190							



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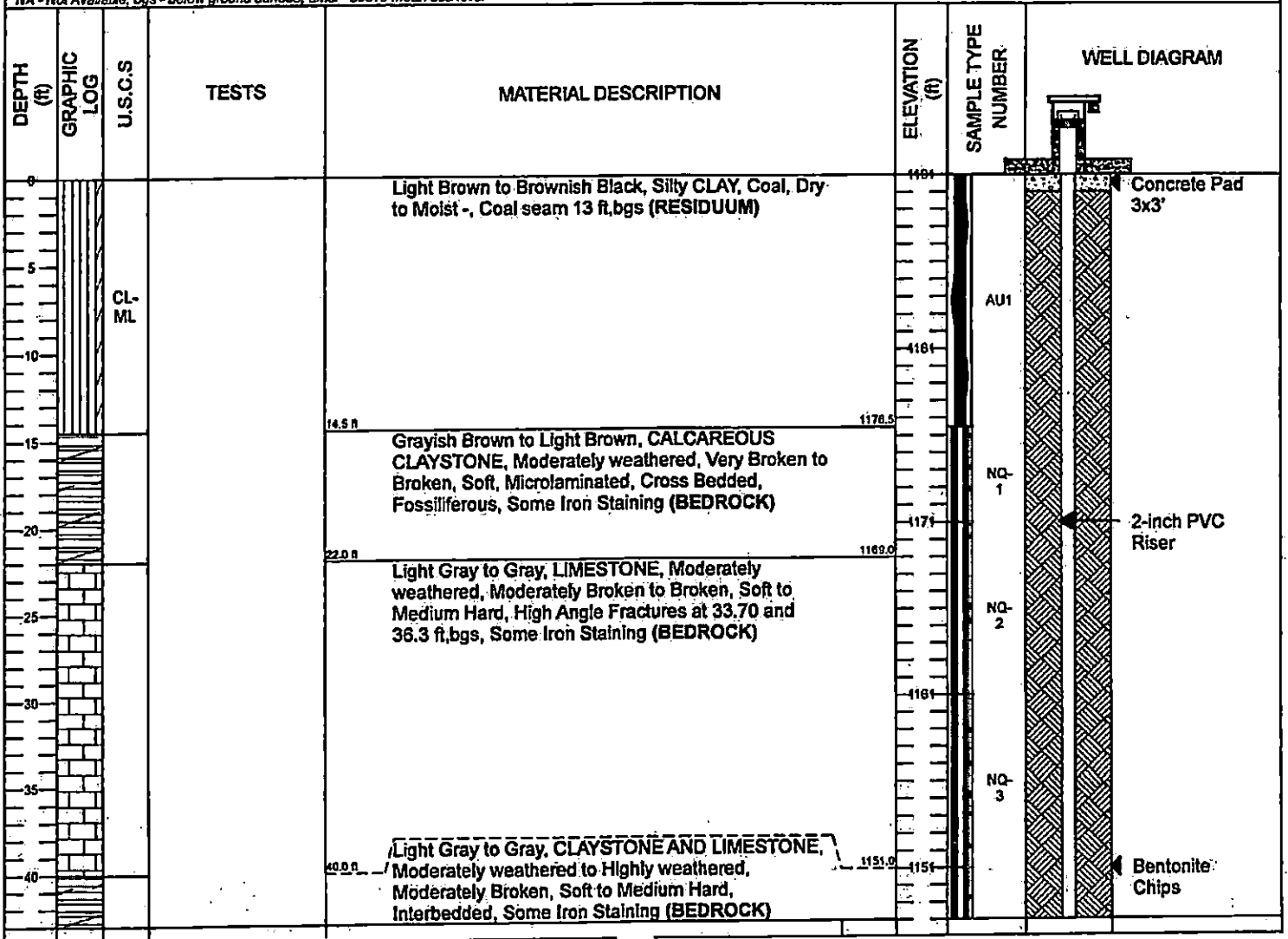
**MONITORING WELL NUMBER MW-108B**

CLIENT <u>First Energy</u>	PROJECT NAME <u>Rivesville Ash Landfill</u>
PROJECT NUMBER <u>193-316</u>	PROJECT LOCATION <u>Rivesville, WV</u>
DATE STARTED <u>12/08/2020</u>	DATE COMPLETED <u>12/10/2020</u>
CEC FIELD REPRESENTATIVE <u>EAM</u>	REVIEWED BY <u>BEK</u>
GROUND ELEVATION <u>1191.00 ft amsl</u>	CASING ELEVATION <u>1194.28 ft amsl</u>
LATITUDE <u>39.540542</u>	LONGITUDE <u>-80.095457</u>
DRILLING CONTRACTOR <u>Terra Testing, Inc.</u>	DRILLER <u>Tom Canton</u>
DRILLING METHOD <u>6-1/4-in Hollow Stem Auger + NQ Core</u>	BACKFILL <u>2" Monitoring Well Installed</u>
BOREHOLE DIAMETER <u>6.00 in</u>	CORE SIZE <u>2.0 in</u>
MONITORING EQUIPMENT <u>NA</u>	OUTER CASING <u>Steel</u>
WELL INSTALLED <u>12/10/2020</u>	WELL STICKUP <u>Stickup (Default), 3.3 ft</u>
DEVELOPMENT METHOD <u>Bailing</u>	WELL KEY <u>CEC Lock</u>
RESULTS <u>Cloudy</u>	NOTES
YIELD <u>15.0 gal</u>	

**WATER LEVELS**

- At Time of Drilling: NA
- End of Drilling: 12/09/2020 128.90 ft bgs / Elev 1062.10 ft amsl
- After Drilling: 12/10/2020 128.75 ft bgs / Elev 1062.25 ft amsl

NA - Not Available; bgs - below ground surface; amsl - above mean sea level





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**MONITORING WELL NUMBER MW-108B**

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM			
45				Light Gray to Gray, CLAYSTONE AND LIMESTONE, Moderately weathered to Highly weathered, Moderately Broken, Soft to Medium Hard, Interbedded, Some Iron Staining (BEDROCK)		NQ-4				
50										
55										
60								80.0 ft	1131.0	NQ-5
65								Brownish Gray to Light Gray, SILTSTONE AND LIMESTONE, Highly weathered to Slightly weathered, Very Broken to Slightly Broken, Medium Hard to Hard, Laminated, Interbedded, (BEDROCK)	1131.0	NQ-6
70										NQ-7
75										NQ-8
80										NQ-8
85										NQ-9
90								Light Gray to Dark Gray, LIMESTONE AND SILTSTONE, Moderately weathered, Broken to Moderately Broken, Soft to Hard, Laminated, Interbedded, Completely weathered 110-112 ft, bgs (BEDROCK)	1101.0	NQ-10
100				Reddish Brown SHALE Seam at (100-101 ft, bgs)	1091	NQ-1				
105										
110										
115										



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Pittsburgh, PA 15205-1751

**MONITORING WELL NUMBER MW-108B**

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

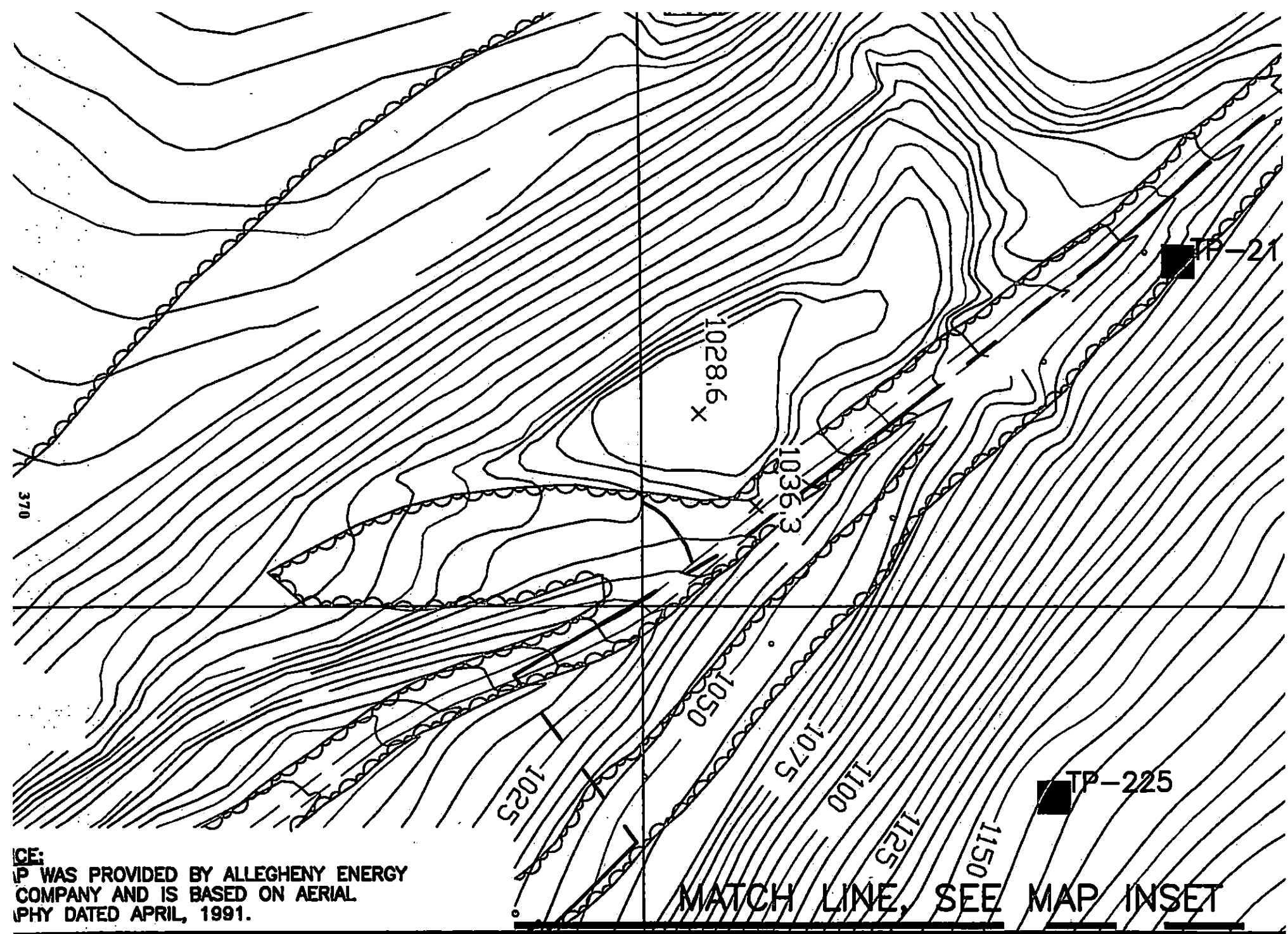
DEPTH (ft.)	GRAPHIC LOG	U.S.C.S.	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft.)	SAMPLE TYPE NUMBER	WELL DIAGRAM
120				Light Gray to Dark Gray, Limestone and Siltstone, Moderately weathered, Broken to Moderately Broken, Soft to Hard, Laminated, Interbedded, Completely weathered 110-112 ft, bgs (BEDROCK)	1074	NQ-12	
125							
130				High angle fracture (131 ft, bgs)			
135				Gray, CALCAREOUS CLAYSTONE, Drill Rig went through a softer zone at approximately 135-140' ft, bgs, little to no recovery (BEDROCK)	1058.0	NQ-13	
140				End of boring at 140.0 feet	1051.0		
145					1044		
150					1034		
160					1024		
170					1014		
180					1004		

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**APPENDIX B**

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ICE:  
IP WAS PROVIDED BY ALLEGHENY ENERGY  
COMPANY AND IS BASED ON AERIAL  
PHOTOGRAPHY DATED APRIL, 1991.

MATCH LINE, SEE MAP INSET







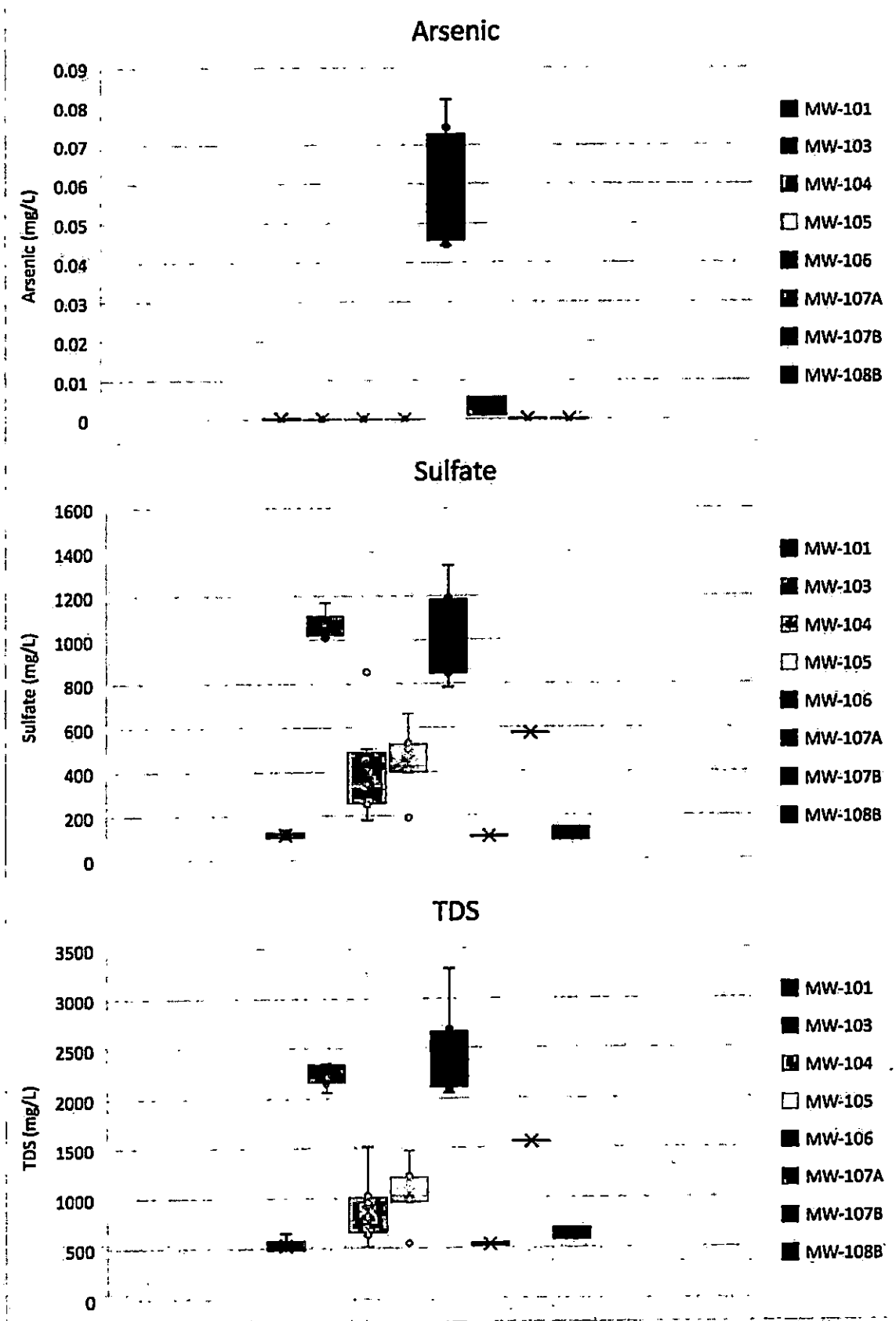


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**APPENDIX C**

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**Appendix C**  
**Box-Whisker Plots**  
**Rivesville Ash Landfill Groundwater Assessment**



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**APPENDIX D**

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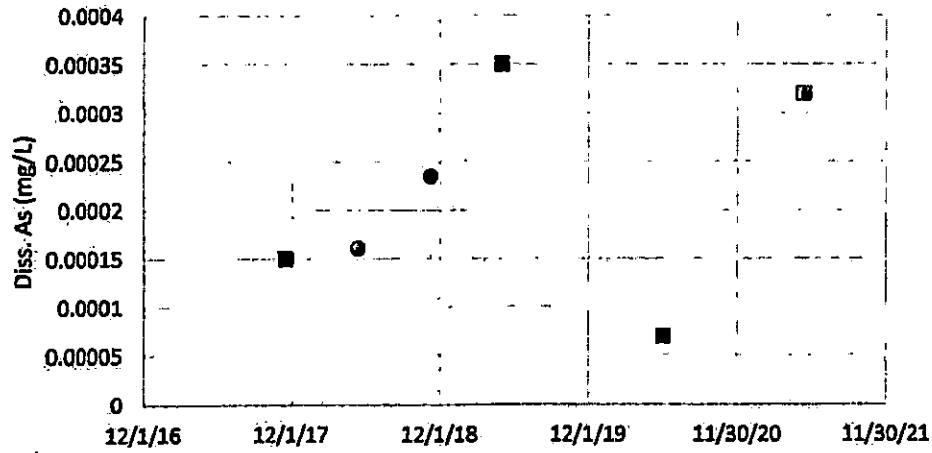


**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

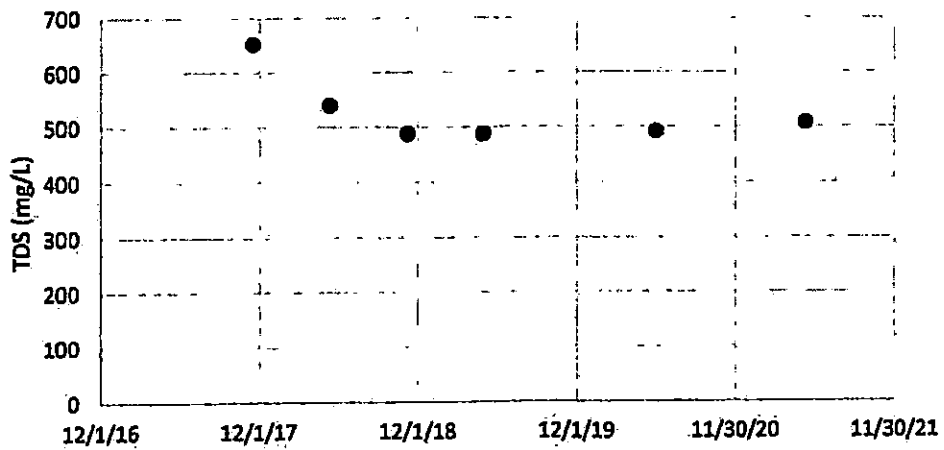
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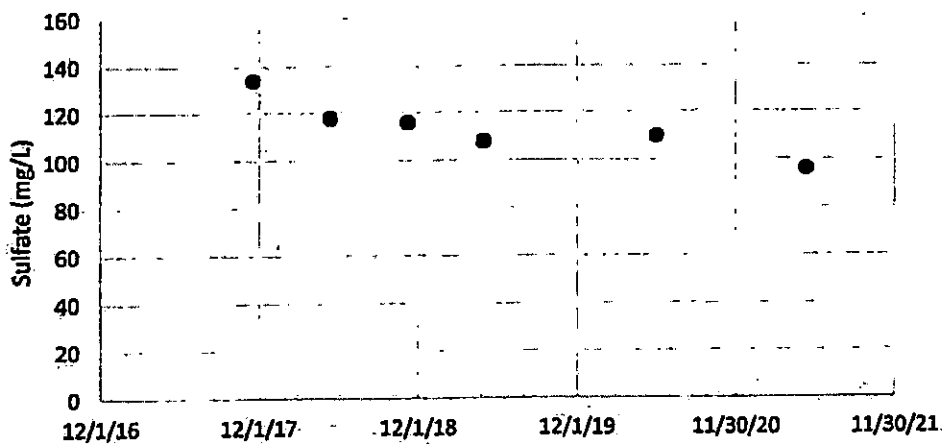
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**TDS**



**Sulfate**

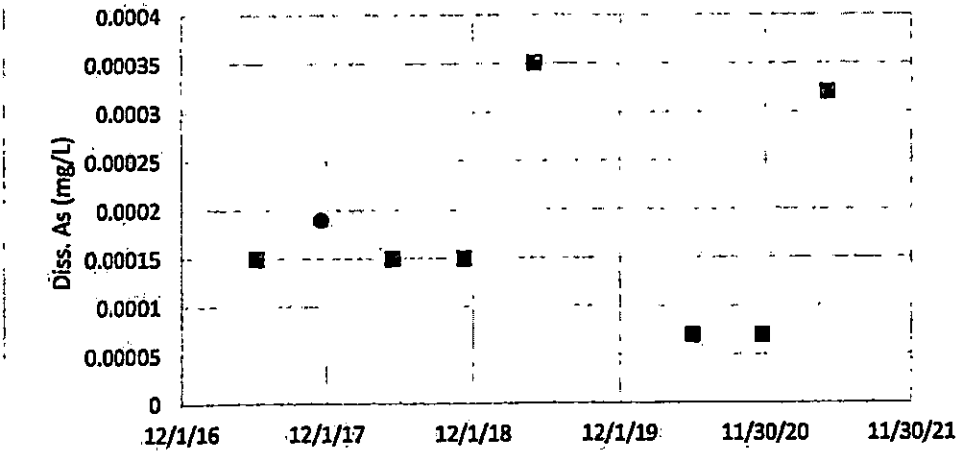


**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

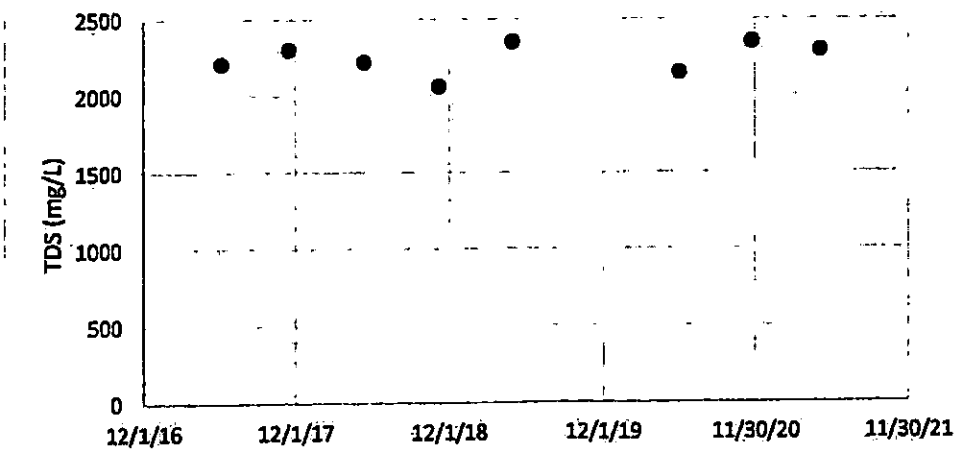
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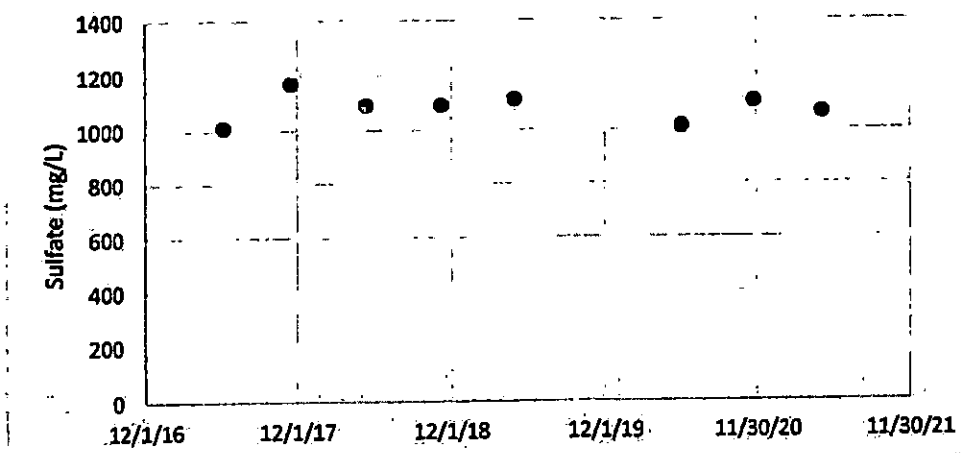
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**TDS**



**Sulfate**

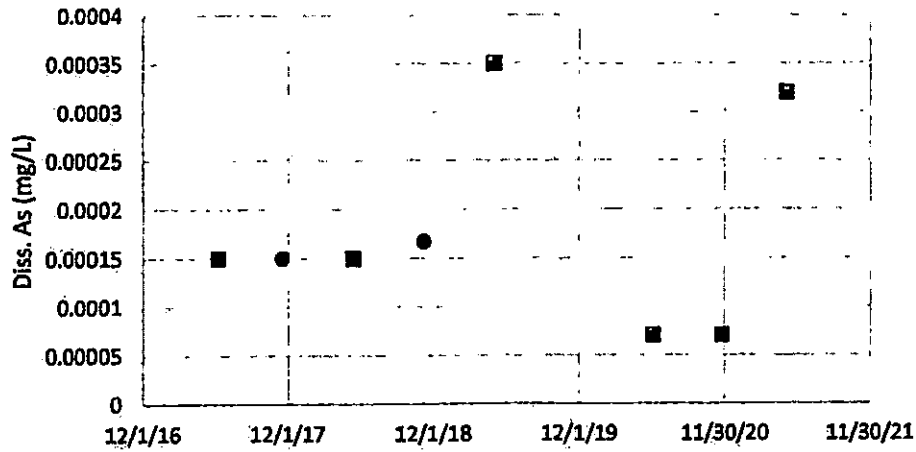


**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

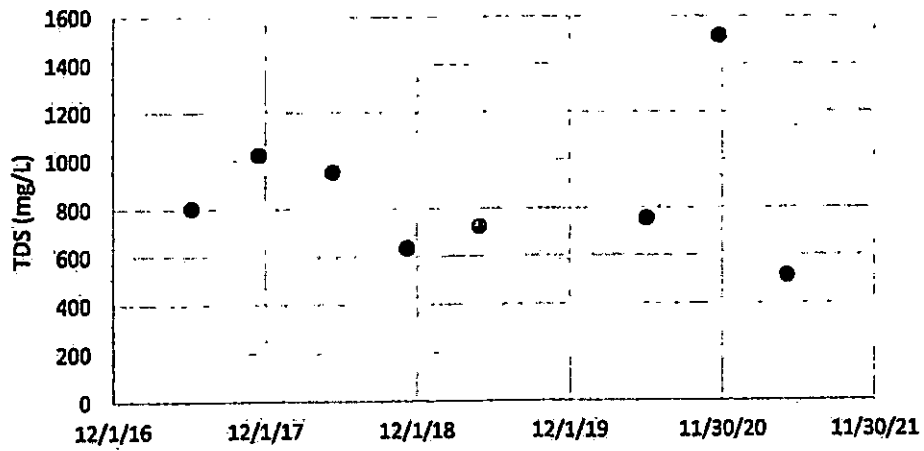
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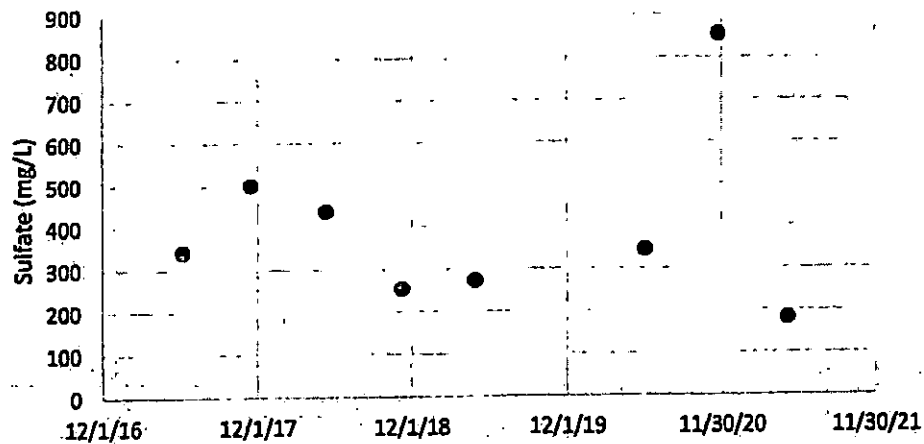
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**TDS**



**Sulfate**

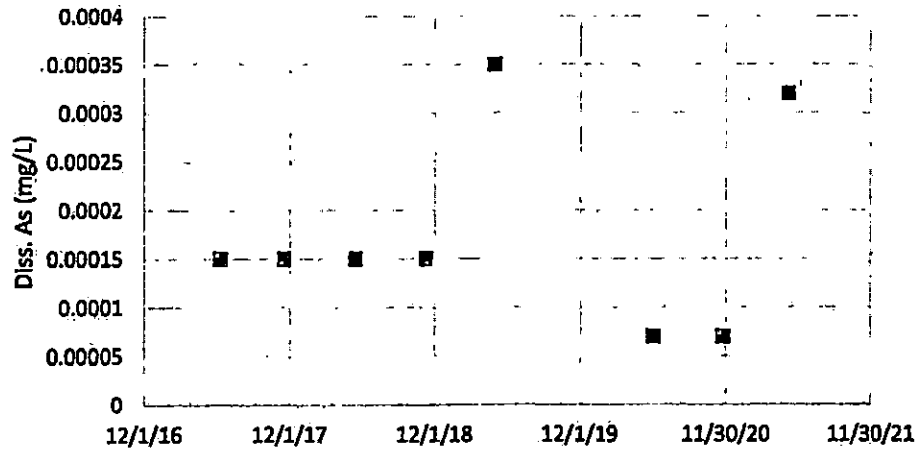


**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

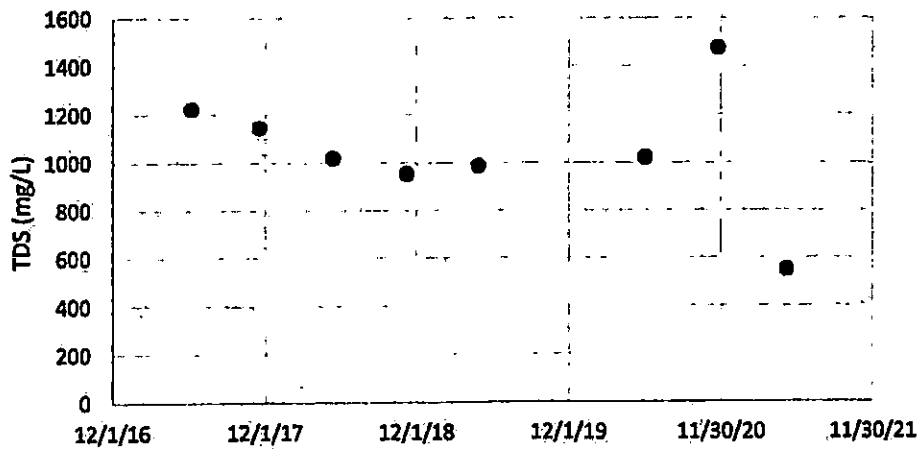
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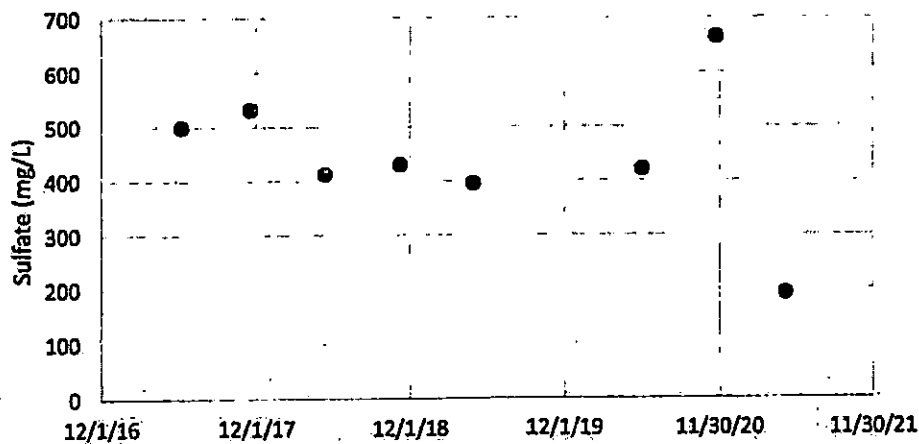
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**TDS**



**Sulfate**

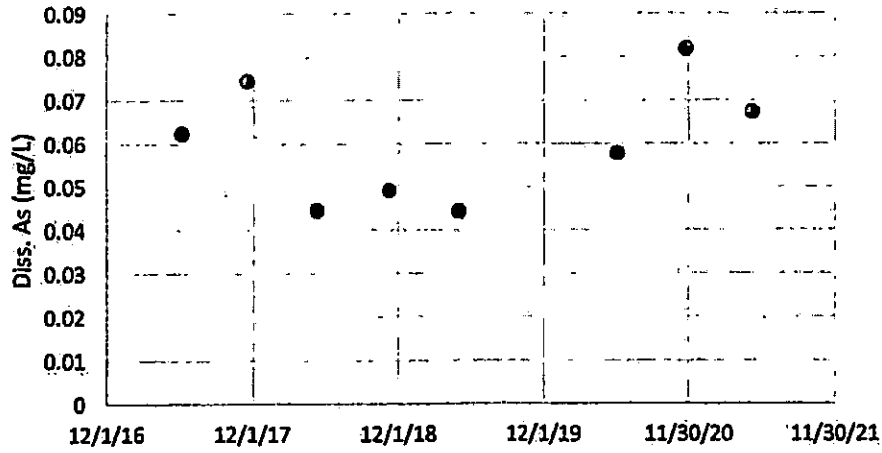


**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

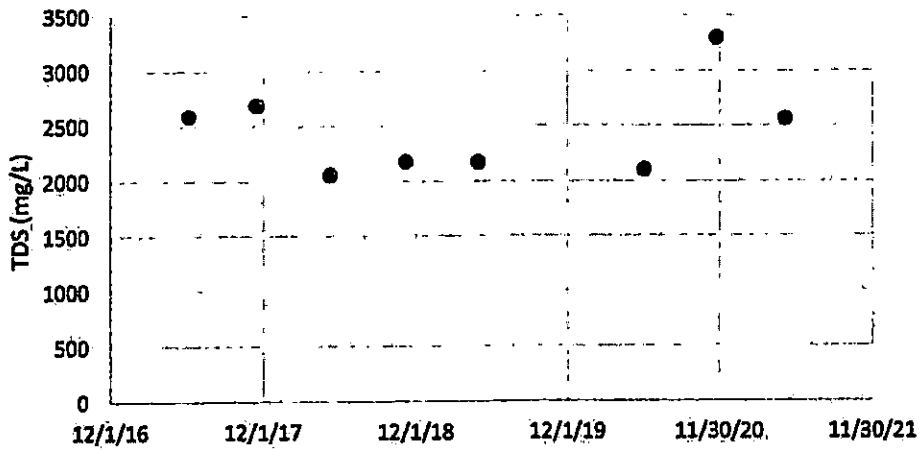
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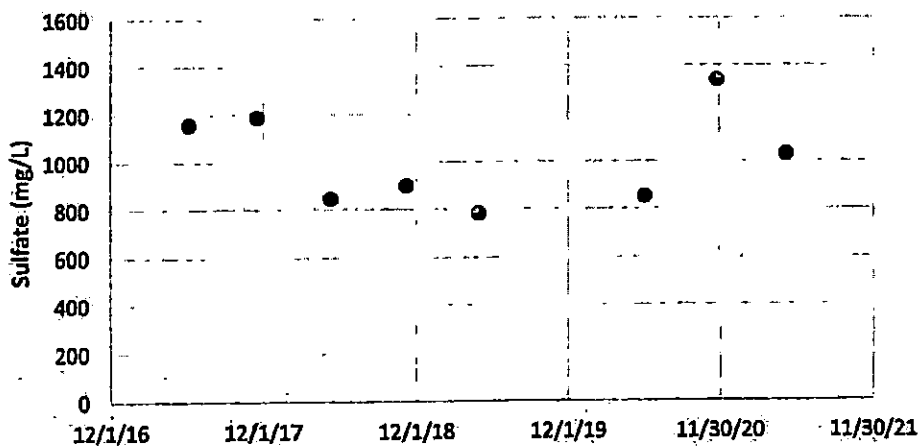
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**TDS**



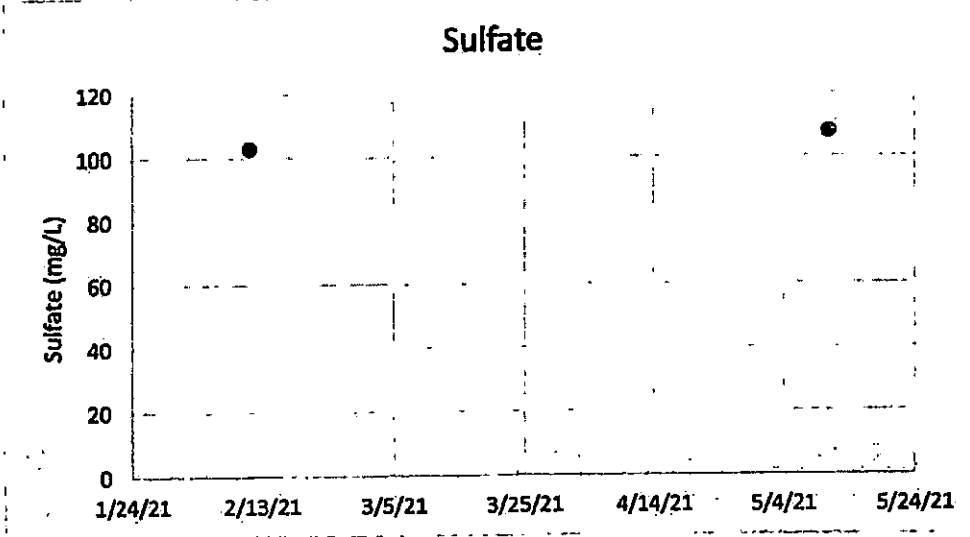
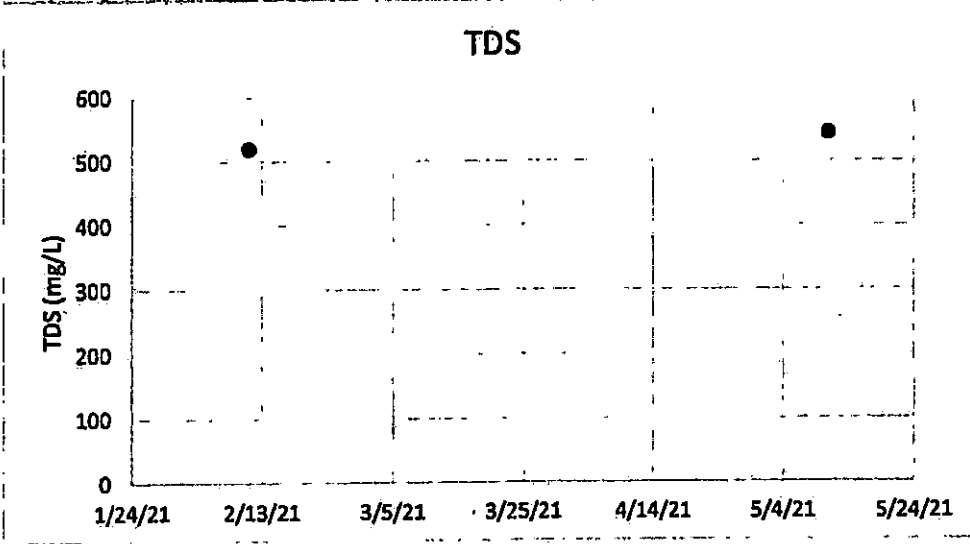
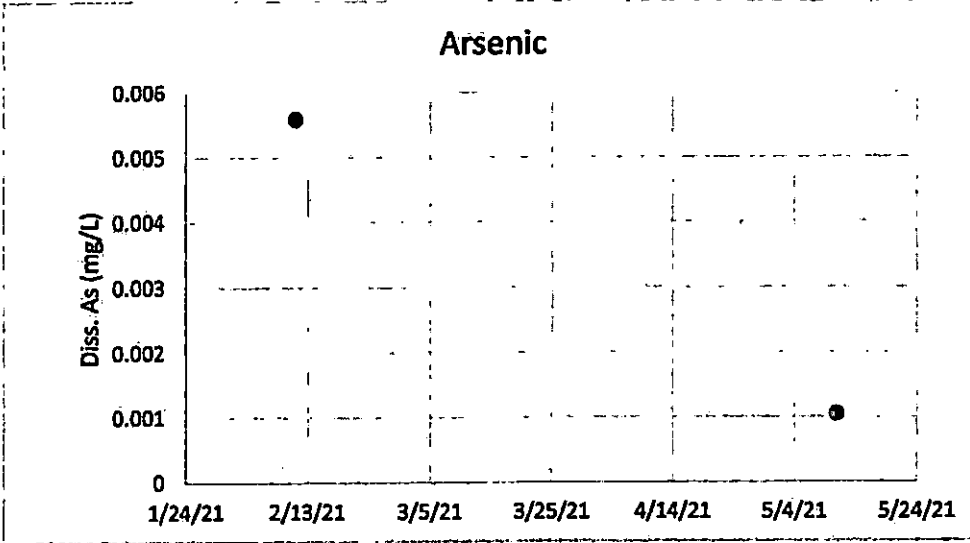
**Sulfate**



**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

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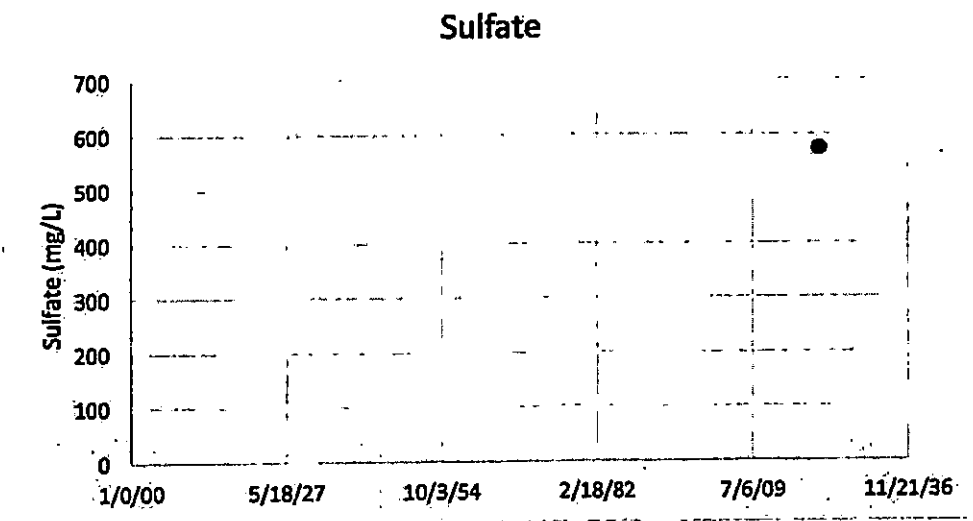
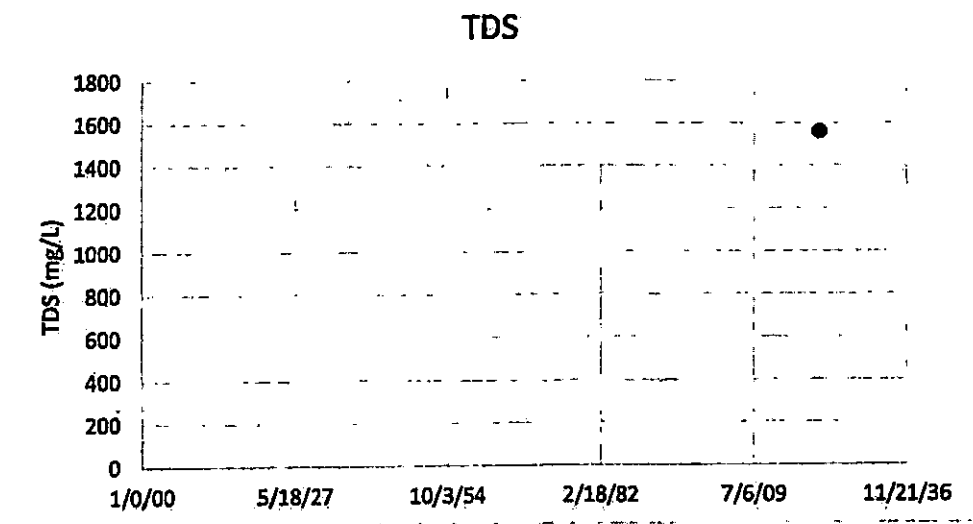
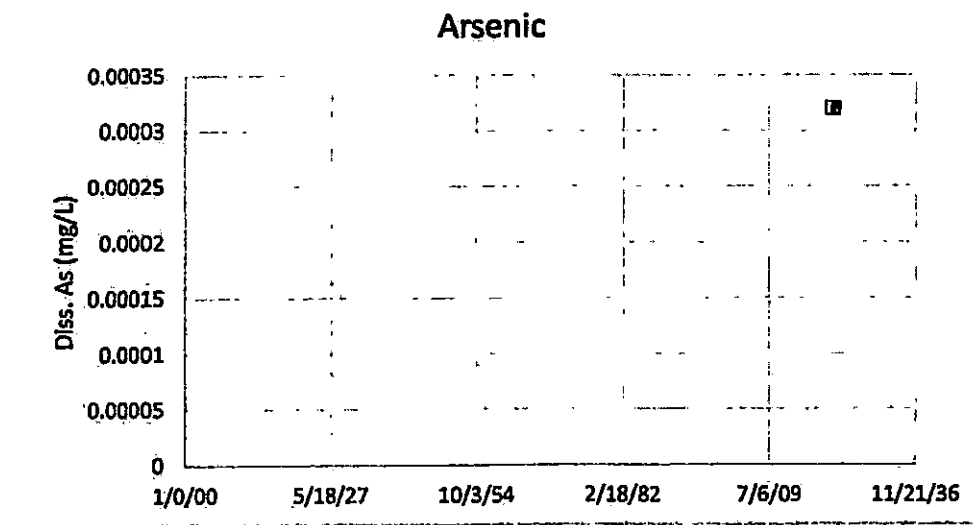
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**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-107B**

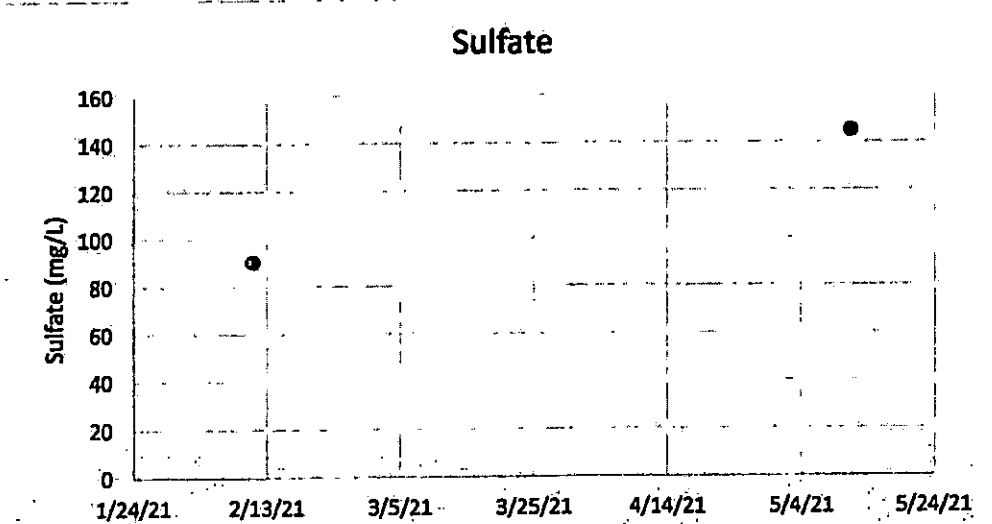
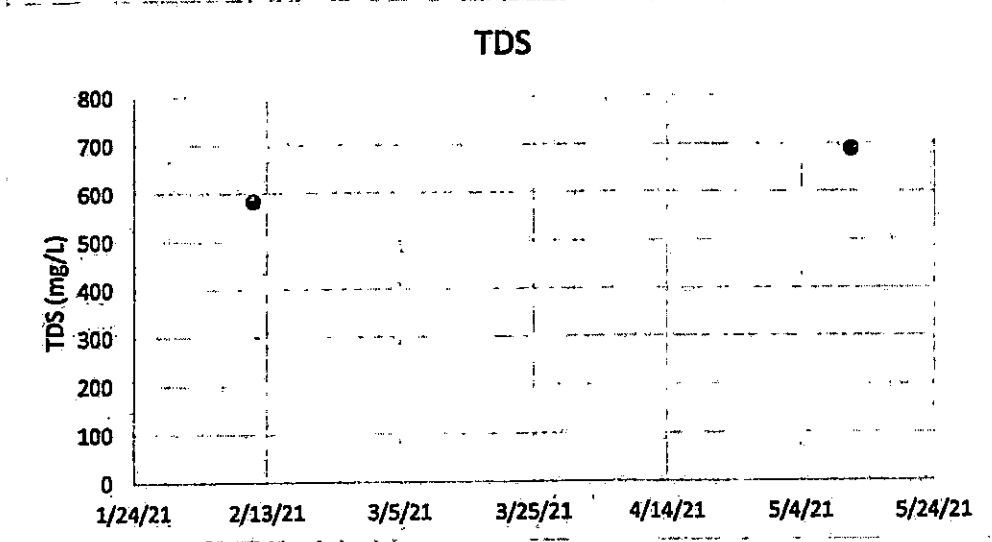
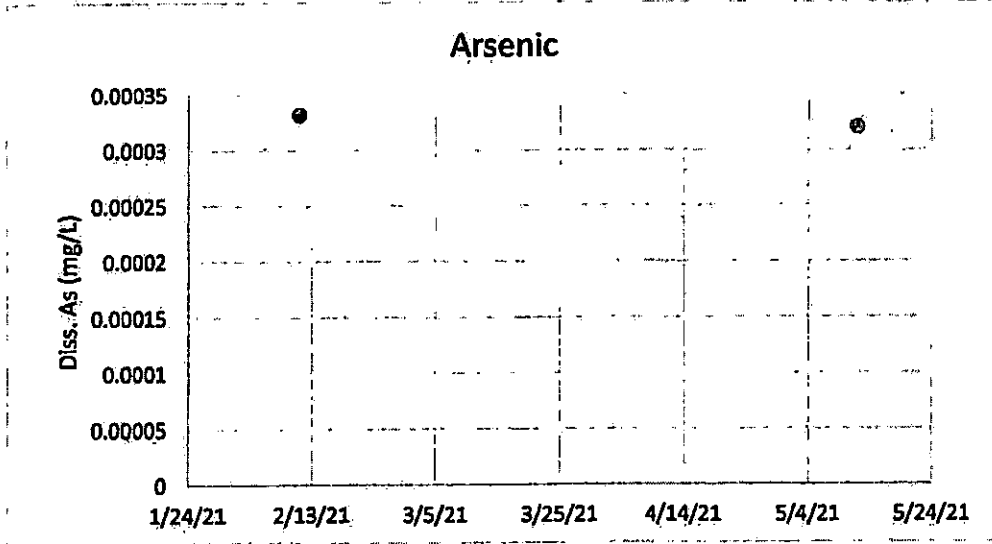
■ Non-detect  
 ● Detected result



Appendix D  
Time-Trend Graphs  
Rivesville Ash Landfill Groundwater Assessment

MW-108B

■ Non-detect  
● Detected result





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OCT - 4 2021

DWWM-WASTE

September 30, 2021

Director, Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345  
Attn: Waste Permitting Section

**RIVESVILLE POWER STATION  
COAL COMBUSTION BYPRODUCT DISPOSAL FACILITY  
SOLID WASTE/NPDES PERMIT NO. WV0050776 ANNUAL REPORT**

Attached is the 2020 Annual Operations Report for the above-referenced facility.

Should you have any questions or desire additional information, please do not hesitate to contact me at (724) 838 - 6824 or at [jkapol1@firstenergycorp.com](mailto:jkapol1@firstenergycorp.com).

Sincerely,



John Jeffrey Kapolka  
Staff Scientist

Attachment

**ANNUAL OPERATION REPORT  
2020**

**Rivesville Power Station-Closed CCB Landfill Facility  
Rivesville, WV, Marion County  
Solid Waste/NPDES Water Pollution Control Permit No. WV0050776**

This 2020 annual operation report is submitted in accordance with condition C.3.b of the subject permit and provision 4.12.g of the WV Solid Waste Management Regulations (WV33CSR1).

1. Facility (Previous) User:  
Rivesville Power Station
2. Summary of Waste Received at Facility:  
No new disposal has occurred. The Rivesville Power Station was deactivated in 2012.
3. Summary of Surface and Groundwater Monitoring Activities:  
Refer to monthly Discharge Monitoring Reports for NPDES discharge data and discussion.

Groundwater monitoring was performed on a semi-annual basis during the months of June and November 2020. Interwell and intrawell statistical analysis performed on the groundwater data for both sampling events showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). Arsenic re-sampling events also confirmed the permit limit exceedances in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

Mon Power entered into Consent Order (CO) 9032 with WVDEP on January 26, 2020 to address the arsenic permit limit exceedances in MW-106. A Groundwater Assessment Plan prepared by Mon Power to comply with the CO was then approved by WVDEP in October 2020 and field investigation activities including the installation of 3 new monitoring wells were completed in December 2020. (Although completed after the 2020 time period covered by this annual report, a Groundwater Assessment Report submitted to WVDEP in September 2021 indicates that there are no exceedances of the 10 ppb GWPS at or beyond the relevant point compliance and no further corrective actions or abatement activities are planned as of the date of this Annual Report).

The Annual Groundwater Flow and Direction Report is attached.

The annual cleaning of the Leak Detection/Underdrain System Lines underlying the surface impoundment, required by Permit Condition C.11, was completed on July 20, 2020. No blockages were reported.

4. Description of Site Development:

The Rivesville Power Station was deactivated in 2012. The CCB disposal facility was closed in 2014 and subsequently a Construction Quality Assurance Closure Completion Report was submitted October 30, 2014.

The most recent renewal for Permit No. WV0050776 was issued February 18, 2015, with an effective date of April 1, 2015, and an expiration date of February 17, 2020. A permit renewal application was submitted via the Department's Electronic Submission System (ESS) on August 14, 2019.

A permit extension letter dated January 8, 2021, has been received, administratively extending the landfill permit until the permit issues or until the 31<sup>st</sup> of December 2021, whichever comes first.

**ANNUAL OPERATION REPORT  
2020**

**Rivesville Power Station-Closed CCB Landfill Facility  
Rivesville, WV, Marion County  
Solid Waste/NPDES Water Pollution Control Permit No. WV0050776**

Quarterly Storm Water Pollution Prevention/Groundwater Protection Plan inspections are performed, and any appropriate actions taken.

**5. Topographic Mapping:**

No topographic mapping is provided. An As-built Final Grade and Features Drawing No. C75408681 was included with the Construction Quality Assurance Closure Completion Report submitted October 30, 2014 and is still representative of current site conditions.

**2020 Annual Groundwater Flow and Direction Report  
Rivesville Power Station – Solid Waste Disposal Site  
Solid Waste Disposal/NPDES Permit No. WV0050776**

**Summary of 2020 Surface and Groundwater Monitoring Activities:**

Groundwater monitoring was performed on a semi-annual basis during the months of June and November 2020. Interwell and intrawell statistical analysis performed on the groundwater data for both sampling events showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). Arsenic re-sampling events also confirmed the permit limit exceedances in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

Mon Power entered into Consent Order (CO) 9032 with WVDEP on January 26, 2020 to address the arsenic permit limit exceedances in MW-106. A Groundwater Assessment Plan prepared by Mon Power to comply with the CO was then approved by WVDEP in October 2020 and field investigation activities including the installation of 3 new monitoring wells were completed in December 2020. (Although completed after the 2020 time period covered by this annual report, a Groundwater Assessment Report submitted to WVDEP in September 2021 indicates that there are no exceedances of the 10 ppb GWPS at or beyond the relevant point compliance and no further corrective actions or abatement activities are planned as of the date of this Annual Report).

**2020 Annual Groundwater Flow and Direction Report**

Section C.2d of the Solid Waste/NPDES Permit issued in February 2015 requires a determination of the rate and direction of groundwater flow in the uppermost contiguous aquifer underlying the ash disposal area. The Rind Aquifer has been identified as the uppermost contiguous aquifer beneath the facility. The groundwater monitoring program includes six groundwater monitoring wells installed in the Rind Aquifer. Three pre-existing piezometers/wells were re-designated and included in the program. Three additional wells were installed during May of 2003. One monitoring well (MW-102) was abandoned in September 2010 because it was consistently dry.

Groundwater enters the rind from infiltrating precipitation. Some contribution may also occur as discharge from bedrock aquifers. Groundwater flow in the rind generally mimics surface topography, following the zone of highest permeability. A minor fraction of this groundwater may also infiltrate into deeper strata.

Water level data measured from the wells during the 2020 semi-annual sampling events are shown on the attached table. Groundwater elevation data measured during October 2003 were plotted on a site map and contoured on Drawing Number C75503109 (previously submitted). Groundwater flows in a north/northwest direction toward the sedimentation basin. This groundwater flow pattern generally coincides with the underlying stream valley located beneath the landfill area. Data collected in 2020 shows groundwater flow directions similar to previously submitted data plotted on Drawing Number C75503109.

The maximum and minimum hydraulic gradients were calculated from the groundwater contour map and used to determine the linear velocity of the aquifer. Hydraulic conductivity values were derived from pump tests performed on two of the wells installed in 2003. Assuming a permeability of 10 percent for the fractured bedrock, the calculated velocity for the Rind Aquifer ranges from 1.7 ft/yr to 5.7 ft/yr.

**Rivesville Disposal Site**

**Groundwater Elevations from Semi-Annual Monitoring Events in 2020**

<b>Monitoring Well</b>	<b>T.O.C. Elevation</b>	<b>Elevation (ft.) 2nd Quarter</b>	<b>Elevation (ft.) 4th Quarter</b>	<b>Monitored Zone</b>
MW-101	1202.15	1168.45	1160.9	Rind Aquifer
MW-103	1036.70	1011.2	1008.77	Rind Aquifer
MW-104	998.60	986.27	985.02	Rind Aquifer
MW-105	1044.82	1017.63	996.52	Rind Aquifer
MW-106	1149.13	1056.33	1055.58	Rind Aquifer

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SEP 30 2021

September 24, 2021

DWWM-WASTE

Mr. Yogesh Patel  
Division of Water & Waste Management  
WV Dept. Of Environmental Protection  
Waste Permitting Section  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

**RE: Rivesville Power Station  
CCR Landfill Permit No. WV0050776  
Compliance Order 9032  
Groundwater Assessment Report**

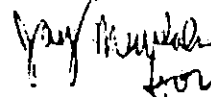
Dear Mr. Patel:

Please find enclosed four copies of the *Groundwater Assessment Report Rivesville Ash Landfill, Consent Order 9032, September 2021*. This report was prepared in response to WVDEP Consent Order 9032 dated January 26, 2020. Site investigation activities were performed in accordance with the Groundwater Assessment Plan approved by the WVDEP Division of Water and Waste Management on October 30, 2020.

Because the report indicates that there are no exceedances of the 10 ppb arsenic Groundwater Protection Standard (GWPS) at or beyond the point of compliance, no corrective measures are warranted at this time. As a result, the additional activities previously planned at the Site including preparation of Assessment of Corrective Measures and Selection of Remedy Reports are no longer necessary and the project schedule submitted to WVDEP by letter on November 24, 2020 is now withdrawn. However, continued monitoring of the permitted and newly installed wells for four consecutive semi-annual monitoring events is recommended to further assess potential arsenic trends at the Site and to verify that groundwater continues to meet GWPSs at the point of compliance.

Mon Power's obligations with regard to fulfilling all the requirements of CO No. 9032 will therefore be complete when WVDEP has reviewed and approved the enclosed report. You can contact Jay Newbaker of my staff at (724) 205-8743 or via E-mail at [enewbaker\\_IV@firstenergycorp.com](mailto:enewbaker_IV@firstenergycorp.com) if you have any questions or if you would like to discuss the groundwater assessment results in greater detail.

Sincerely,



Dave Hoone  
Supervisor, CCR and Waste Programs

Enclosures

cc: Jeremy Bandy, Chief Inspector Env Enforcement, WVDEP Charleston  
Tonya Mather – Env Inspector Supervisor, WVDEP Fairmont Regional Office  
Christina Facemyer, WVDEP DWWM Charleston  
Jay Newbaker, FE G-CH (w/o enclosure)  
Jim Meade, FE G-CH (w/o enclosure)  
Master File

**GROUNDWATER ASSESSMENT REPORT**

**RIVESVILLE ASH LANDFILL  
CONSENT ORDER NO. 9032**

**Prepared For:**

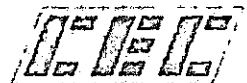
**MONONGAHELA POWER COMPANY  
GREENSBURG, PENNSYLVANIA**

**Prepared By:**

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
PITTSBURGH, PENNSYLVANIA**

**CEC Project 193-316**

**SEPTEMBER 2021**



**Civil & Environmental Consultants, Inc.**



## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>1</b>
1.1	Site Description.....	1
1.2	Environmental Setting .....	1
1.3	Background and Purpose .....	1
<b>2.0</b>	<b>SCOPE OF WORK.....</b>	<b>3</b>
2.1	Monitoring Well Installation.....	3
2.2	Groundwater Sample Collection.....	4
<b>3.0</b>	<b>FINDINGS .....</b>	<b>5</b>
3.1	Geology.....	5
3.2	Hydrogeology .....	6
3.2.1	Aquifers.....	6
3.2.2	Vertical Hydraulic Gradients .....	6
3.2.3	Groundwater Flow .....	7
3.3	Groundwater Analytical Results.....	8
3.3.1	Summary of Analytical Results .....	8
3.3.2	Graphical Analyses.....	9
3.3.2.1	Box-Whisker Plots.....	9
3.3.2.2	Time-Trend Analyses.....	10
<b>4.0</b>	<b>DISCUSSION AND RECOMMENDATIONS.....</b>	<b>11</b>
4.1	Comparison to Groundwater Protection Standards.....	11
4.1.1	Point of Compliance .....	11
4.1.2	Groundwater Data Compared to Groundwater Protection Standards.....	11
4.2	Conclusions and Recommendations .....	11
<b>5.0</b>	<b>LIMITATIONS.....</b>	<b>13</b>

## DRAWINGS

- Drawing 1 – Site Layout
- Drawing 2 – Geologic Cross Section
- Drawing 3 – Schematic of Groundwater Flow
- Drawing 4 – Groundwater Contour Map

## TABLES

- Table 1 – Summary of Well Construction Details
- Table 2 – Summary of Groundwater Elevation Data
- Table 3 – Vertical Hydraulic Gradients
- Table 4 – Laboratory Analytical Data Summary

Table 5 – Comparison to Groundwater Protection Standards

## APPENDICES

Appendix A – Boring Logs and Well Completion Details

Appendix B – Historical Geologic Cross-Sections

Appendix C – Box and Whisker Plots

Appendix D – Time Trend Graphs

## **1.0 INTRODUCTION**

### **1.1 SITE DESCRIPTION**

The Rivesville Power Station Coal Combustion Residuals (CCR) Landfill (Site) is a closed facility located in Marion County, West Virginia that was utilized for the disposal of CCR from the Rivesville Power Station until it closed in September 2012.

In accordance with the current groundwater monitoring program for the Site under West Virginia Department of Environmental Protection (WVDEP) National Pollutant Discharge Elimination System (NPDES)/Solid Waste Permit No. WV0050776, Monongahela Power Company (MP) monitors the five following monitoring wells on a biannual basis: MW-101, MW-103, MW-104, MW-105, and MW-106. The locations of these monitoring points are provided on Drawing 1.

### **1.2 ENVIRONMENTAL SETTING**

The Site is located in the Appalachian Plateau physiographic province and is situated in the drainage basin of an unnamed tributary that flows northeast to the Monongahela River. Surface water from the Site drains to a sedimentation basin, which discharges into the unnamed tributary of the Monongahela River through permitted National Pollution Discharge Elimination System (NPDES) Outfall No. 006.

### **1.3 BACKGROUND AND PURPOSE**

Groundwater monitoring indicated that arsenic is present in well MW-106 at concentrations that exceed the Groundwater Protection Standard (GWPS) and permit limit of 0.01 milligrams per liter (mg/L). As a result, WVDEP issued Consent Order No. 9032 to MP on January 26, 2020 to initiate an Assessment of Corrective Measures (ACM) at the Site to address exceedances of arsenic groundwater standards in accordance with 33 CSRS §4.11.c.7.A.4. As the first step in the ACM process, a Groundwater Assessment Plan (GWAP) was prepared and submitted to the WVDEP in

October 2019 that presented a scope of work to characterize the nature and extent of elevated arsenic concentrations at the Site. The GWAP was approved by WVDEP on October 30, 2020.

This purpose of this report is to document the results of the groundwater assessment.

## 2.0 SCOPE OF WORK

The goal of this groundwater assessment was to characterize the nature and extent of arsenic at the Site and determine the direction of groundwater flow in the vicinity of MW-106. The locations of the proposed wells were chosen to provide groundwater elevation and water quality data to assess groundwater flow directions and determine if dissolved arsenic concentrations meet the GWPS of 0.01 mg/L at the point of compliance.

### 2.1 MONITORING WELL INSTALLATION

A West Virginia certified driller was subcontracted to install three new monitoring wells (MW-107A, MW-107B, and MW-108B) at the locations shown on Drawing 1. The MW-107A/B well cluster was installed approximately 250 feet west-northwest of MW-106. Well MW-108B was installed approximately 325 feet to the north of MW-106. Wells MW-107B and MW-108B were installed in a similar zone within the Benwood Limestone as MW-106. Well MW-107A was installed higher in the strata to estimate the vertical gradient. A summary of well construction details is provided in Table 1.

Boreholes for the monitoring wells were advanced using 4.25-inch diameter hollow-stem augers to the top of bedrock. The boreholes for the "B-series" monitoring wells were advanced into bedrock using NQ coring so that the bedrock could be described and the screened intervals could be determined. The boreholes were then reamed using a 6-inch air rotary bit so that the borehole diameter was large enough to install a 2-inch PVC monitoring well. The "A-series" monitoring well was installed to its target depth using a 6-inch air rotary bit.

Each well was constructed with ten feet of schedule 40 PVC machine-slotted screen and solid PVC riser to the ground surface. The annulus was filled with clean quartz sand to approximately two feet above the screen. The remaining annulus was filled with hydrated bentonite. The wells were completed with locking steel protective covers and a concrete pad. Boring logs and well completion information are presented in Appendix A.

Following installation, each newly constructed well was developed by bailing, pumping and/or surging to clean the filter pack and reduce sample turbidity. After installation, the wells were surveyed for location and top-of-casing elevation by a licensed professional surveyor.

## 2.2 GROUNDWATER SAMPLE COLLECTION

To assess water quality in the newly installed wells, two samples were collected on a quarterly basis for the sample parameters identified in the table below. One sampling event coincided with the bi-annual sampling event at the Site.

### Sample parameters:

<b>General Chemistry</b>	
Sulfate	Specific Conductance
Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)
Temperature	pH
<b>Metals (Dissolved)</b>	
Arsenic	

### 3.0 FINDINGS

#### 3.1 GEOLOGY

The Site is located in the Appalachian Plateau physiographic province. Bedrock at the Site is overlain by up to 30 feet of residuum/colluvium consisting primarily of residual clay with varying amounts of sand, silt, and weathered rock fragments. Underlying the residuum/colluvium are stratigraphic units of the Pennsylvanian-aged Monongahela and Conemaugh Groups.

The Monongahela group includes those strata extending from the top of the Uniontown Coal, which is not present beneath the Site, to the base of the Pittsburgh Coal. The Monongahela Group consists of non-marine sequences of sandstone, siltstone, and shale and contains persistent limestone and coal beds. The Conemaugh Group, which consists of cyclic sequences of shale, siltstone, and sandstone containing thin limestones and coals, underlies the Monongahela Group. Coal beds of the Monongahela Group are more frequent, persistent, and minable than those in the Conemaugh Group, and limestones in the Monongahela Group are generally more thickly developed than in the Conemaugh Group.

Three common marker beds of the Monongahela Group, known as the Benwood Limestone, Sewickley Coal, and Pittsburgh Coal, have been identified at the Site. The Benwood Limestone is a thick limestone interbedded with limy siltstones and shales, and is present at the Site beneath approximately 25 feet of shale. The Sewickley Coal horizon is present beneath the Benwood Limestone. The Sewickley Coal is underlain by a massive sandstone (Sewickley Sandstone), below which is a sequence of shales, siltstone, limestone, and the Pittsburgh Sandstone. Underlying the Pittsburgh Sandstone is the Pittsburgh Coal horizon, which forms the contact between the Monongahela and underlying Conemaugh Groups. Bedrock dips gently to the northwest at about 10 degrees, nearly opposite the surficial slope within the drainage valley.

The Sewickley coal crops out at an elevation of approximately 930 feet above mean sea level (ft. AMSL) to the southwest of the Site along Parker Run, and beneath the ash landfill at an elevation of approximately 1,020 ft. AMSL. The Pittsburgh coal crops out at an elevation of approximately

890 ft. AMSL to the southwest of the Site along Parker Run, and at an elevation of approximately 980 ft. AMSL in the drainage valley in the eastern portion of the Site. Historic drilling at the Site indicates that mine voids were encountered in the Sewickley and Pittsburgh coal horizons beneath the Site and both coals have been extensively mined beneath the Site.

Boring logs for recently installed wells MW-107A/B and MW-108B are provided in Appendix A. A geologic cross section that was prepared using information obtained during drilling of MW-107A/B and historical information obtained during previous investigations at the Site is provided in Drawing 2. Additional geologic cross sections that were previously prepared using geologic information generated during previous drilling programs at the Site are provided in Appendix B.

## **3.2 HYDROGEOLOGY**

### **3.2.1 Aquifers**

Stress-relief fracturing and weathering in the Appalachian Plateau have combined to create a more permeable "rind" over the surfaces of the hills. This rind forms the uppermost aquifer at the Site, and cuts across the pre-existing strata. Beneath the rind are two informal bedrock aquifers that have previously been defined beneath the Site. "Zone 1" is the strata above the Sewickley Coal, and "Zone 2" is the strata between the Sewickley and Pittsburgh Coals.

### **3.2.2 Vertical Hydraulic Gradients**

At location MW-107, where two wells were installed at varying depths, the vertical hydraulic gradients were calculated by dividing the difference in potentiometric head between the well pair by the difference in elevation between the midpoints of the screens for the well pair. Depth to water and groundwater elevation data are summarized in Table 2. The calculated vertical hydraulic gradients are summarized in Table 3.

The calculated vertical hydraulic gradients at MW-107 are downward and ranged from -1.01 to -1.20, with an average gradient of -1.10. This indicates a strong downward component of



groundwater flow at this location. This is expected since MW-107B is located above the free-draining mine workings of the Sewickley coal. Observations made during drilling of these wells indicate that a loss of coring return water occurred at approximately 155 feet below ground surface. This portion of the strata is likely highly fractured and has a strong downward component of groundwater flow into the mine workings.

### 3.2.3 Groundwater Flow

Conceptually, groundwater flow at the Site includes one or a combination of the following components (Drawing 3):

- Groundwater flow follows the contours of the original valley eastward beneath the landfill until it is intercepted by the mine voids within the Sewickley and Pittsburgh coals.
- Groundwater within fractured strata above the mine workings flows primarily downward into the mine voids within the Sewickley and Pittsburgh coals, and/or
- Groundwater flows west within the mine voids in the direction of bedrock dip.

Historical drilling performed at the Site revealed that the Sewickley and Pittsburgh coal horizons were not flooded. The lack of water in the mine workings indicates water within the mines is freely draining in the direction of bedrock dip to the west. Within Zone 1 above the Sewickley mine workings (e.g. MW-101 and MW-107A), groundwater flow converges toward the valley from surrounding uplands and flows eastward along the center of the historical valley beneath the Site, until the Sewickley mine workings are shallow enough to affect groundwater flow. Water from Zone 1 that enters the mine workings flows along the dip direction, which is to the northwest at about 10 degrees. Some of the water likely infiltrates through the mine floor and into the underlying strata, providing recharge to Zone 2. Within Zone 2, between the Sewickley and Pittsburgh mine workings, groundwater flows toward the northeast until it's intercepted by the Pittsburgh mine workings.

Potentiometric surface contours were created utilizing groundwater elevation data obtained during the biannual monitoring event conducted in May 2021 (Drawing 4). The contours for Zone 1 were

estimated using groundwater elevation data for wells MW-106, MW-107B and MW-108B, which are installed in a similar zone within the Benwood Limestone. Because wells MW-107A and MW-101 are located higher in the section, groundwater elevation data from these wells were not used in contouring. The potentiometric contours show horizontal groundwater flow in Zone 1 to the west/southwest. There is also a large component of downward flow toward the Sewickley Coal. Once the water enters the mine workings, flow follows the dip direction.

The contours for Zone 2 were estimated using groundwater elevation data for wells MW-103, MW-104 and MW-105, which are installed in a similar zone within Zone 2. The potentiometric contours for Zone 2 indicated horizontal groundwater flow to the northeast.

Based on the current groundwater contours and historical information, monitoring well MW-101 is located upgradient of the landfill, MW-108B is located cross gradient of the landfill, and wells MW-103, MW-104, MW-105, MW-106 and MW-107B are located downgradient of the landfill. There is insufficient data to determine the relative position of MW-107A with regard to groundwater flow direction; however, based on topography and well depth, it is likely upgradient of the landfill.

### **3.3 GROUNDWATER ANALYTICAL RESULTS**

#### **3.3.1 Summary of Analytical Results**

Analytical results for the two quarterly groundwater samples collected from the newly installed wells and the 2021 bi-annual samples collected from the existing wells are presented on Table 4. Well MW-107B could only be sampled once because the well only contained several inches of water during the first sampling event.

### 3.3.2.2 *Time-Trend Analyses*

Time-trend graphs were prepared for arsenic, sulfate and TDS (Appendix D). For graphing purposes, non-detect results were graphed at the reporting limit. For previously existing wells MW-101, MW-103, MW-104, MW-105 and MW-106, available data from the past five years were graphed (2017 to present). A summary of the time-trend analyses is provided below. Because wells MW-107A, MW-107B and MW-108B were recently installed, a discussion of trends is premature and water quality may still be stabilizing following well installation.

- MW-101: Sulfate is decreasing.
- MW-103: No trends of note.
- MW-104: No trends of note.
- MW-105: TDS and sulfate are decreasing.
- MW-106: No significant trends of note over the past 5 years. However, older data (not shown) shows that arsenic began increasing circa 2010.
- MW-107A: Arsenic decreased in the second sample.
- MW-107B: Only one sample was collected.
- MW-108B: Sulfate and TDS increased in the second sample.

Additional corrective measures are not warranted at this time because there are no exceedances of the GWPS at or beyond the point of compliance. However, we recommend continued monitoring of the permitted and newly installed wells for a minimum of four consecutive semi-annual monitoring events to further assess potential trends in arsenic at the Site and verify that groundwater continues to meet the applicable GWPSs at the point of compliance. Following completion of the four semi-annual monitoring events, the data will be evaluated and a determination will be made regarding whether continued monitoring of the newly installed wells is warranted.

## 5.0 LIMITATIONS

This report has been prepared in keeping with accepted standards of practice for preparation of environmental assessments and using CEC's professional judgment. CEC makes no claim as to the presence or absence of contamination except at the time of sampling and for the specific locations and parameters tested during the investigation. No warranties, either expressed or implied, are made herein.

Chemical data presented in this report are applicable to the location, time of sample collection, and the parameters analyzed. Chemical conditions may change with time. Reported conditions may not represent current or future conditions. Chemical concentrations between sampling points may differ.

The water levels presented in this report are applicable to the location and time of measurement. Water levels may fluctuate through time. Water table contours generated from this data are constructed by interpolation between points of known static water levels elevations and using knowledge of specific site conditions. Actual static water levels at locations between the monitoring points may differ from those depicted.

The boring logs and related information presented in this report depict subsurface conditions at the test boring locations at the time of drilling. Subsurface geologic conditions at other locations may differ. Geologic correlations shown between borings generally are based on straight-line interpolation. Actual conditions between test borings may differ.

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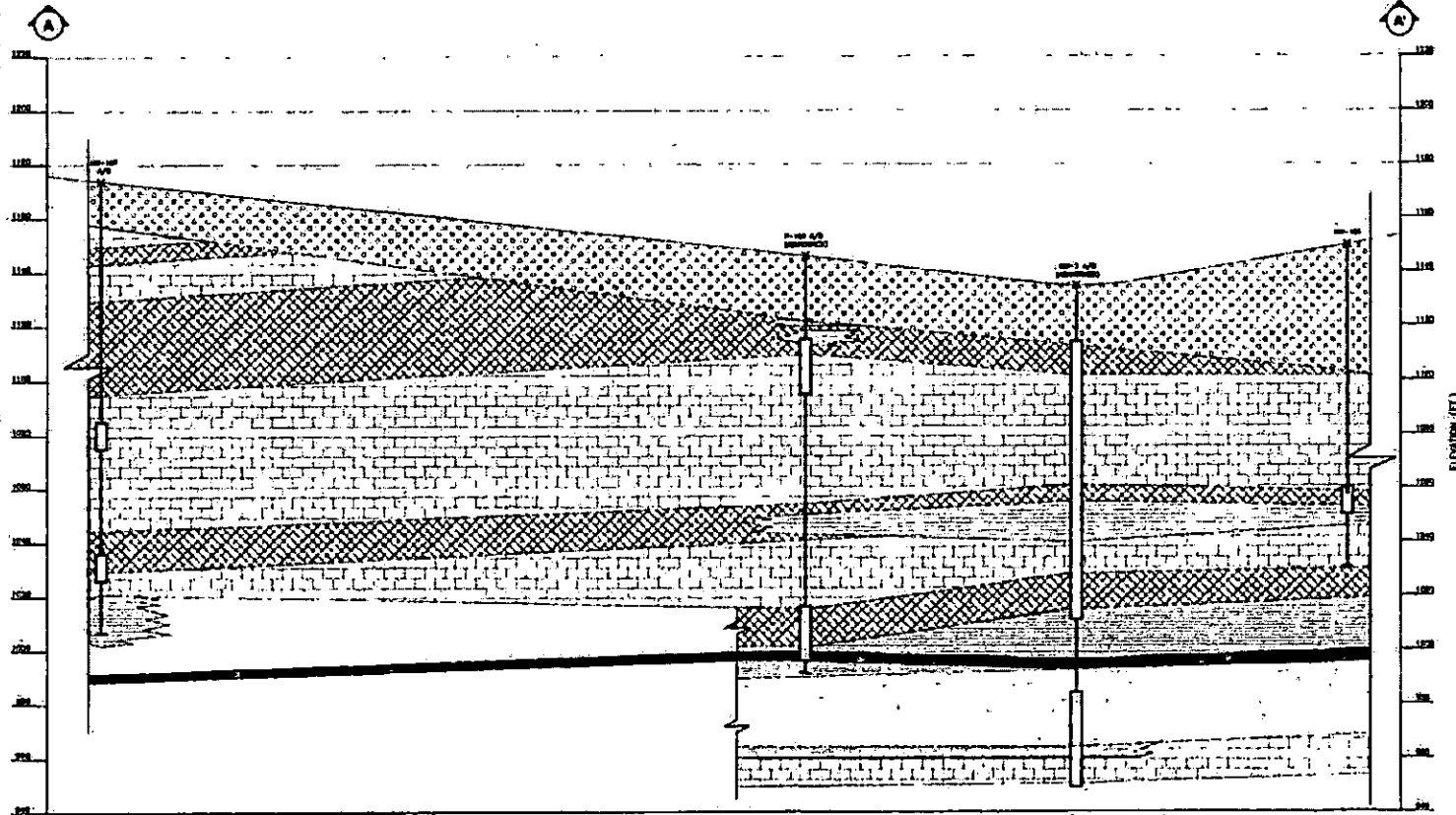
**DRAWINGS**

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409

REVISION RECORD	
NO.	DESCRIPTION
SUBMITTAL RECORD	
NO.	DESCRIPTION



**LEGEND**

	UNSATURATED SANDS
	LIMESTONE
	SLATE
	SHALE/SLATES
	SOIL
	SEWERAGE
	WATER TABLE

**GEOLOGIC CROSS SECTION A-A**  
 SCALE: HORIZ. 1"=20', VERT. 1"=20'  
 SCALE IN FEET

**CEC**  
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 1010 Shiloh Road - Raleigh, NC 27605  
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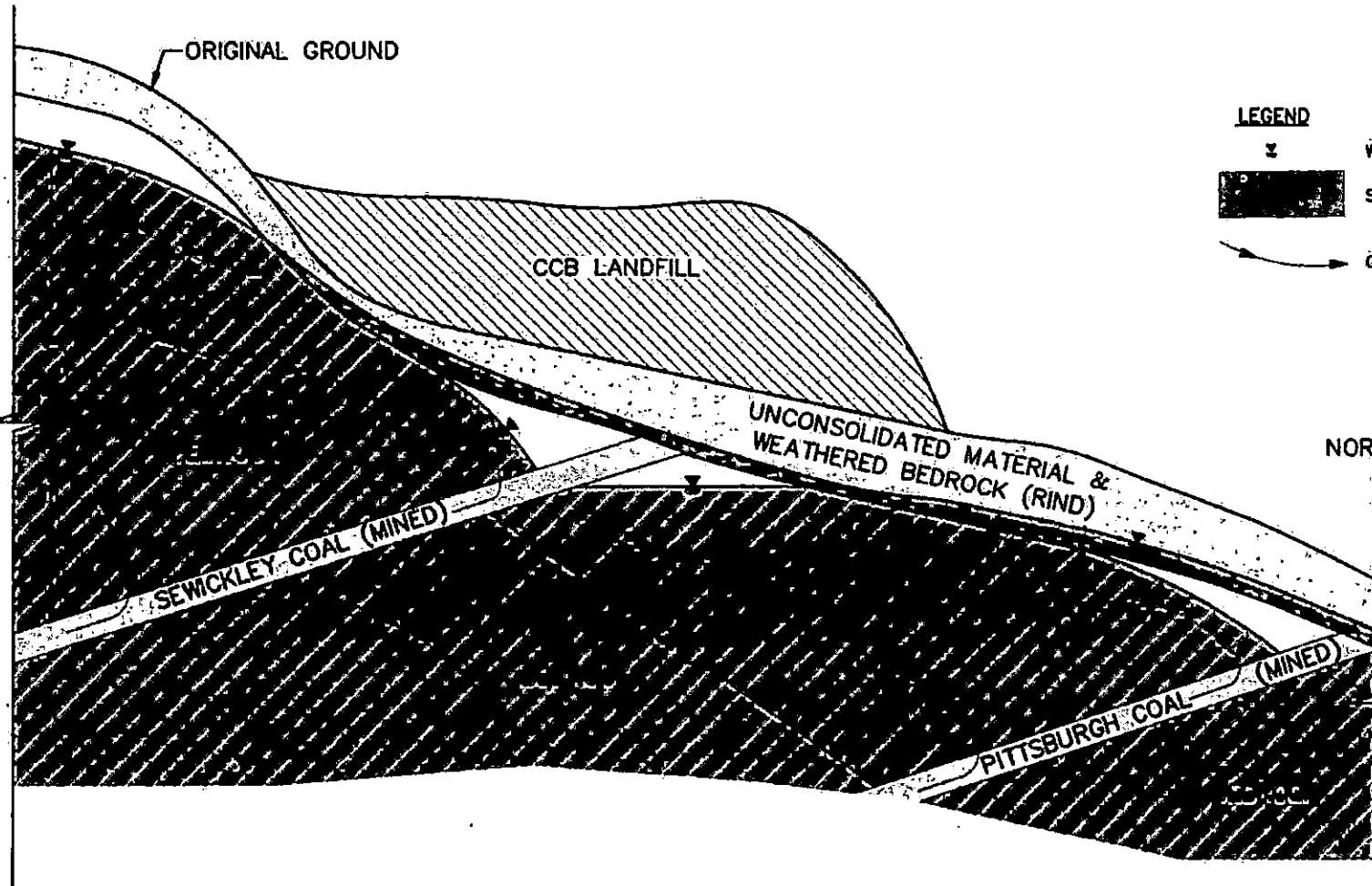
**MONONGAHELA POWER COMPANY  
 RIVESVILLE ASH LANDFILL  
 RIVESVILLE  
 MARION COUNTY, WEST VIRGINIA**

Drawn by: [Blank] Date: [Blank] Scale: [Blank]  
 Checked by: [Blank] Date: [Blank] Scale: [Blank]  
 Project No.: [Blank] Drawing No.: [Blank]




**GEOLOGIC CROSS SECTION** **2**



SOUTHWEST



**LEGEND**

-  WATER TABLE
-  SATURATED CONDITIONS
-  GROUNDWATER FLOW

NORTHEAST

410

\*HAND SIGNATURE ON FILE

**GROUNDWATER CONDITIONS**

THE WATER LEVELS PRESENTED HEREIN ARE APPLICABLE TO THE LOCATION AND TIME OF MEASUREMENT. WATER LEVELS MAY FLUCTUATE THROUGH TIME.

POTENTIOMETRIC CONTOURS GENERATED FROM THIS DATA ARE CONSTRUCTED BY INTERPOLATION BETWEEN POINTS OF KNOWN STATIC WATER LEVEL ELEVATIONS AND USING KNOWLEDGE OF SPECIFIC SITE CONDITIONS. ACTUAL STATIC WATER LEVELS AT LOCATIONS BETWEEN THE MONITORING POINTS MAY DIFFER FROM THOSE DEPICTED.

**CEC**  
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 www.cecinc.com

DRAWN BY: JAH | CHECKED BY: RAE | APPROVED BY: RAE | DRAWING NO.:  
 DATE: AUGUST 2021 | DWG SCALE: NTS | PROJECT NO.: 193-318

MONONGAHELA POWER COMPANY  
 RIVESVILLE ASH LANDFILL  
 RIVESVILLE, MARION COUNTY  
 WEST VIRGINIA

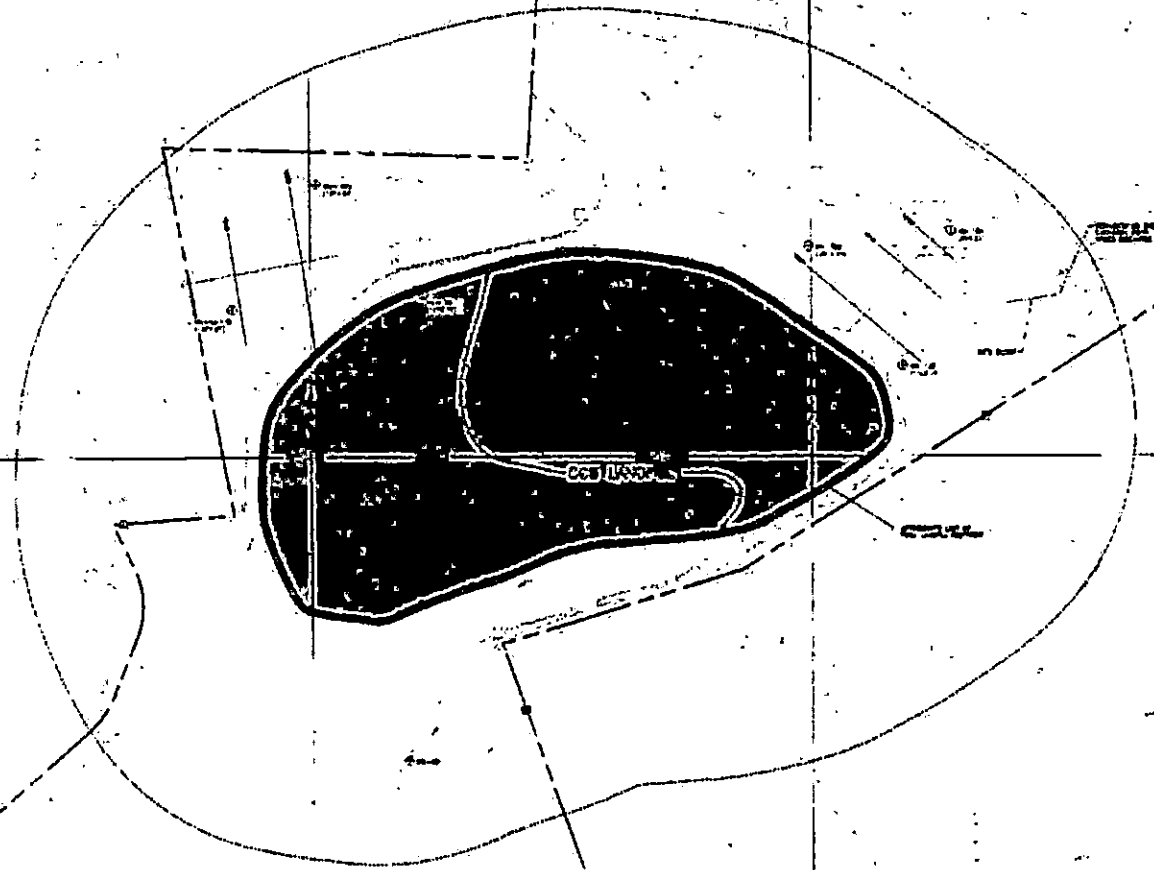
**SCHEMATIC OF GROUNDWATER FLOW**

3

Project Name	ASBESTOS
Client	
Location	
Date	
Scale	
Sheet No.	




411



**LEGEND**

---	Property Boundary
---	City Boundary
---	Water
---	Asbestos Contamination Area
---	Survey Point
---	Other

  
 Civil & Environmental Consultants, Inc.  
 2000 10th Street, N.W.  
 Washington, D.C. 20004-4400  
 (202) 331-1100

**MONROGAPPA POWER COMPANY**  
 RIVERSVILLE ASH LANDFILL  
 RIVERSVILLE, MARION COUNTY  
 WEST VIRGINIA

SHEET NO. 4

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## **TABLES**

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Table 1  
 Summary of Well Construction Details  
 Rivesville Ash Landfill Groundwater Assessment  
 Monongahela Power Company  
 Rivesville Ash Landfill, Rivesville, West Virginia  
 CEC Project: 193-316

Well	Date Installed	Casing Diameter (In)	DEPTHS (ft)						ELEVATIONS (ft AMSL)				Location		Aquifer	Lithology Monitored
			Bottom of Boring	Bottom of Sand	Bottom of Screen	Top of Screen	Top of Sand	Top of Plug	Top of Casing	Ground	Top of Screen	Bottom of Screen	Latitude	Longitude		
MW-101	6/26/1992	1.5	45.6	45.1	45.1	25.1	23	21	1202.16	1200	1175	1155	39°32'14.74"	80°05'41.22"	Zone 1	Limestone/Shale
MW-103	5/6/2003	2	60	49	48	28	23	7.5	1036.69	1035	1007	987	39°32'25.28"	80°05'31.72"	Zone 2	Sewickly Sandstone/Limestone
MW-104	6/19/1992	1.5	25.1	25.1	25.1	10.1	8	6	998.57	996	986	971	39°32'25.51"	80°05'27.25"	Zone 2	Sandstone/Shale
MW-105	5/5/2003	2	70	54	50	30	25	7.5	1044.82	1043	1013	993	39°32'22.71"	80°05'28.07"	Zone 2	Limestone
MW-106	6/26/1997	2	109	100	99	89	85	3	1149.13	1150	1060	1050	39°32'23.77"	80°05'40.92"	Zone 1	Benwood Limestone
MW-107A	12/8/2020	2	100	100	100	90	88	1	1177.52	1175	1085	1075	39°32'23.45"	80°05'45.77"	Zone 1	Limestone
MW-107B	12/7/2020	2	167	150	148	138	136	1	1176.99	1174	1036	1026	39°32'23.35"	80°05'45.74"	Zone 1	Benwood Limestone
MW-108B	12/10/2020	2	140	140	140	130	128	1	1194.28	1191	1061	1051	39°32'25.95"	80°05'43.64"	Zone 1	Benwood Limestone

**Table 2****Summary of Groundwater Elevation Data  
Rivesville Ash Landfill Groundwater Assessment  
Monongahela Power Company  
Rivesville Ash Landfill, Rivesville, West Virginia  
CEC Project: 193-316**

<b>Well:</b>	<b>MW-101</b>	<b>MW-103</b>	<b>MW-104</b>	<b>MW-105</b>	<b>MW-106</b>	<b>MW-107A</b>		<b>MW-107B</b>		<b>MW-108B</b>	
<b>Date:</b>	5/11/21	5/6/21	5/6/21	5/6/21	5/6/21	2/11/21	5/11/21	2/11/21	5/12/21	2/11/21	5/12/21
<b>Aquifer:</b>	Zone 1	Zone 2	Zone 2	Zone 2	Zone 1	Zone 1		Zone 1		Zone 1	
<b>Top of Casing Elev. (ft AMSL):</b>	1202.16	1036.69	998.57	1044.82	1149.13	1177.52		1176.99		1194.28	
<b>Depth to Water (ft):</b>	32.68	25.20	4.35	22.48	92.35	92.75	90.86	Dry	139.72	131.20	129.3
<b>Groundwater Elev. (ft AMSL):</b>	1169.48	1011.49	994.22	1022.34	1056.78	1084.77	1086.66	NA	1037.27	1063.08	1064.98

**Table 3**

**Vertical Hydraulic Gradients**

**Rivesville Ash Landfill Groundwater Assessment**

**Monongahela Power Company**

**Rivesville Ash Landfill, Rivesville, West Virginia**

**CEC Project: 193-316**

Well Pair	Monitored Zone	Midpoint of Screen (ft amsl)	Groundwater Elevation (ft amsl)		Vertical Gradient (unitless)	
			2/11/2021	5/12/2021	2/11/2021	5/12/2021
MW-107A	Limestone	1079.91	1084.77	1086.66	-1.20	-1.01
MW-107B	Benwood Limestone	1031.14	1026.40	1037.27		

**Footnotes:**

Positive vertical gradient indicates upward direction, negative vertical gradient indicates downward direction

**Table 4**

**Laboratory Analytical Data Summary  
Rivesville Ash Landfill Groundwater Assessment  
Monongahela Power Company  
Rivesville Ash Landfill, Rivesville, West Virginia  
CEC Project: 193-316**

Well ID:	MW-101	MW-103	MW-104	MW-105	MW-106	MW-107A		MW-107B		MW-108B	
Date Sampled:	5/11/21	5/6/21	5/6/21	5/6/21	5/6/21	2/11/21	5/11/21	2/11/21	5/12/21	2/11/21	5/12/21
Aquifer:	Zone 1	Zone 2	Zone 2	Zone 2	Zone 1	Zone 1		Zone 1		Zone 1	
Formation:	Limestone/ Shale	Sewickly Sandstone/ Limestone	Sandstone/ Shale	Limestone	Benwood Limestone	Limestone		Benwood Limestone		Benwood Limestone	
<b>Dissolved Metals</b>											
Arsenic (mg/L)	<0.00032	<0.00032	<0.00032	<0.00032	0.067	0.0056	0.0010	Dry	<0.00032	0.000332 J	<0.00032
<b>General Chemistry</b>											
pH (SU)	7.33	6.76	6.90	7.22	6.65	7.72 H	7.54	--	7.35	7.22 H	7.10
Conductivity (umho/cm)	713	2278	750	754	2761	792	785	--	1983	892	1017
TSS (mg/L)	<4	<4	<4	<4	16	958	750	--	1277	2192	134
TDS (mg/L)	508	2290	516	550	2560	520	544	--	1560	584	688
Sulfate (mg/L)	96	1060	181	192	1030	103	108	--	573	91	145

**Footnotes:**

J - Result is less than the reporting limit but greater than the method detection limit and is an estimated value.

H - Analyte was analyzed beyond the method hold time.

**Table 5**  
**Comparison to Groundwater Protection Standards**  
**Rivesville Ash Landfill Groundwater Assessment**  
**Monongahela Power Company**  
**Rivesville Ash Landfill, Rivesville, West Virginia**  
**CEC Project: 193-316**

Well ID:		MW-101	MW-103	MW-104	MW-105	MW-106	MW-107A	MW-107A	MW-107B	MW-107B	MW-108B	MW-108B
Date Sampled:		5/11/21	5/6/21	5/6/21	5/6/21	5/6/21	2/11/21	5/11/21	2/11/21	5/12/21	2/11/21	5/12/21
Aquifer:		Zone 1	Zone 2	Zone 2	Zone 2	Zone 1	Zone 1		Zone 1		Zone 1	
Formation:	WV GWPS*	Limestone/ Shale	Sewickly Sandstone/ Limestone	Sandstone/ Shale	Limestone	Benwood Limestone	Limestone		Benwood Limestone		Benwood Limestone	
<b>Dissolved Metals</b>												
Arsenic (mg/L)	0.01	<0.00032	<0.00032	<0.00032	<0.00032	0.067	0.0056	0.0010	Dry	<0.00032	0.000332	<0.00032
<b>General Chemistry</b>												
pH (SU)	NSE	7.33	6.76	6.90	7.22	6.65	7.72 H	7.54	--	7.35	7.22 H	7.10
Conductivity (umho/cm)	NSE	713	2278	750	754	2761	792	785	--	1983	892	1017
TSS (mg/L)	NSE	<4	<4	<4	<4	16	958	750	--	1277	2192	134
TDS (mg/L)	NSE	508	2290	516	550	2560	520	544	--	1560	584	688
Sulfate (mg/L)	NSE	96	1060	181	192	1030	103	108	--	573	91	145

Footnotes:

NSE - No standard established

\* - Groundwater Protection Standard (GWPS) established at West Virginia Legislative Rule §33-1-4.11.c.8.B.1

417



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**APPENDIX A**

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Pittsburgh, PA 15205-1751

**MONITORING WELL NUMBER MW-107A**

<b>CLIENT</b> First Energy	<b>PROJECT NAME</b> Rivesville Ash Landfill
<b>PROJECT NUMBER</b> 193-316	<b>PROJECT LOCATION</b> Rivesville, WV
<b>DATE STARTED</b> 12/07/2020	<b>DATE COMPLETED</b> 12/08/2020
<b>CEC FIELD REPRESENTATIVE</b> EAM	<b>REVIEWED BY</b> BEK
<b>GROUND ELEVATION</b> 1175.00 ft amsl	<b>CASING ELEVATION</b> 1177.52 ft amsl
<b>LATITUDE</b> 39.539846	<b>LONGITUDE</b> -80.096047
<b>DRILLING CONTRACTOR</b> Terra Testing, Inc.	<b>DRILLER</b> Tom Canton
<b>DRILLING METHOD</b> 6-1/4-in HSA + Air Hammer	<b>BACKFILL</b> 2" Monitoring Well Installed
<b>BOREHOLE DIAMETER</b> 6.00 in	<b>CORE SIZE</b> NA
<b>MONITORING EQUIPMENT</b> NA	<b>OUTER CASING</b> Steel
<b>WELL INSTALLED</b> 12/08/2020	<b>WELL STICKUP</b> Stickup (Default), 2.5 ft
<b>DEVELOPMENT METHOD</b> Bailing	<b>WELL KEY</b> CEC Lock
<b>RESULTS</b> Mostly Clear	<b>NOTES</b>
<b>YIELD</b> 17.75 gal	

**WATER LEVELS**

- At Time of Drilling: NA
- End of Drilling: 12/07/2020 99.85 ft bgs / Elev 1075.15 ft amsl
- After Drilling: 12/08/2020 90.15 ft bgs / Elev 1084.85 ft amsl
- Temporary Well: NA
- Permanent Well: NA

NA - Not Available; bgs - below ground surface; amsl - above mean sea level

DEPTH (ft)	GRAPHIC LOG	U.S.C.S.	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM
0				For lithologic description, see boring log for well MW-107B.	1175		Concrete Pad 3x3'
5					1165	AU1	
10					1155	AH-1	
15					1145	AH-2	2-inch PVC Riser
20					1135	AH-3	Bentonite Chips

(Continued Next Page)

**MONITORING WELL NUMBER MW-107A**



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CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM
45				<p><i>For lithologic description, see boring log for well MW-107B.</i></p>	1125	AH-4	<p>2-inch PVC Riser</p> <p>Bentonite Chips</p> <p>Hydrated Bentonite Pellets</p> <p>Clean Quartz Sand</p> <p>0.01" Slotted Screen</p>
50			1115		AH-5		
55			1105		AH-6		
60			1095		AH-7		
65			1085		AH-8		
70			1075.0		AH-9		
75			1065				
80			1055				
85			1045				
90			1035				
95			1025				
100			1015				
105			1005				
110			995				
115			985				

End of boring at 100.0 feet



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# MONITORING WELL NUMBER MW-107B

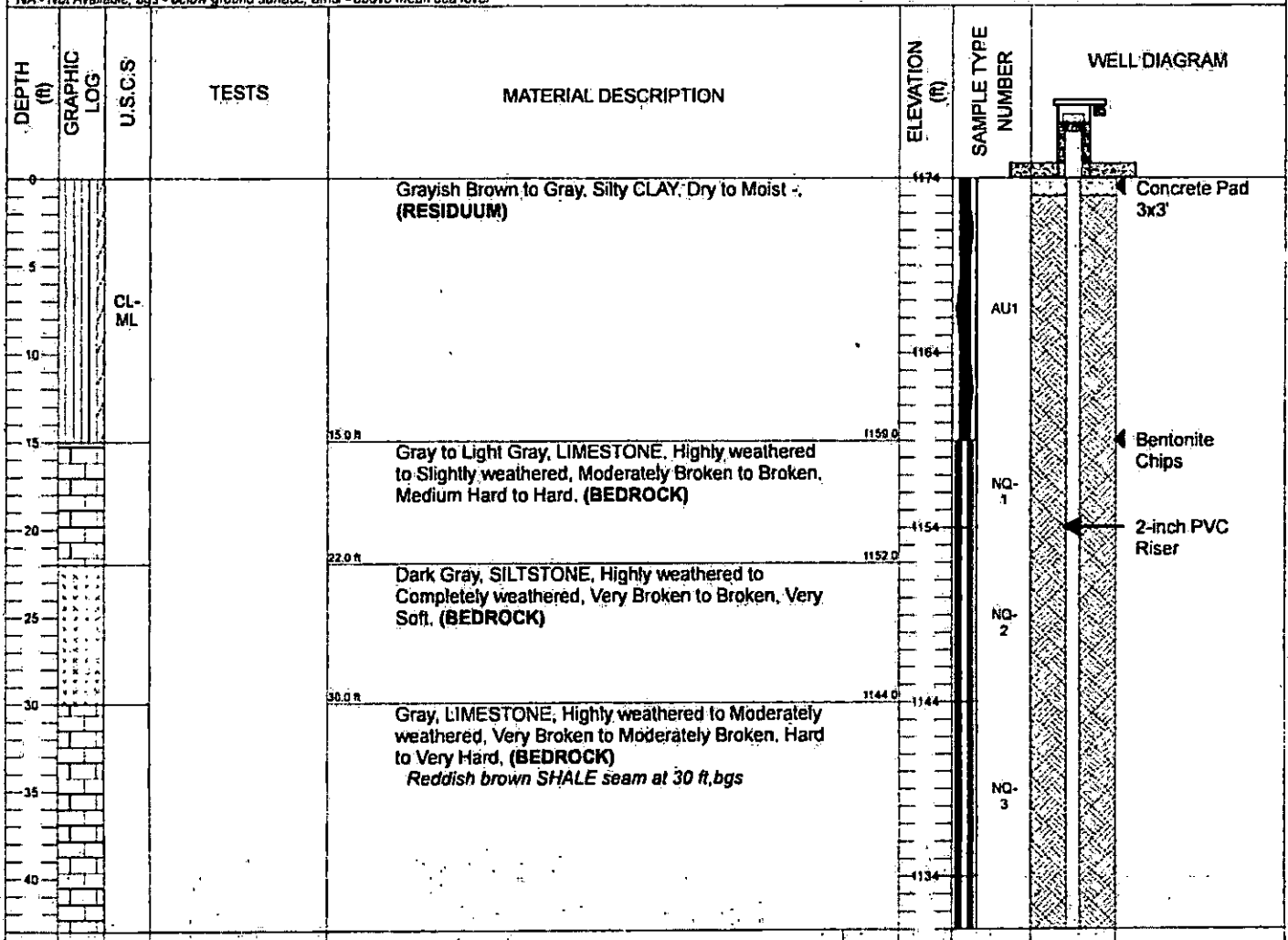
PAGE 1 OF 3

<b>CLIENT</b> First Energy	<b>PROJECT NAME</b> Rivesville Ash Landfill
<b>PROJECT NUMBER</b> 193-316	<b>PROJECT LOCATION</b> Rivesville, WV
<b>DATE STARTED</b> 11/30/2020	<b>DATE COMPLETED</b> 12/07/2020
<b>CEC FIELD REPRESENTATIVE</b> EAM	<b>REVIEWED BY</b> BEK
<b>GROUND ELEVATION</b> 1174.00 ft amsl	<b>CASING ELEVATION</b> 1176.99 ft amsl
<b>LATITUDE</b> 39.539821	<b>LONGITUDE</b> -80.096038
<b>DRILLING CONTRACTOR</b> Terra Testing, Inc.	<b>DRILLER</b> Tom Canton
<b>DRILLING METHOD</b> 6-1/4-in Hollow Stem Auger + NQ Core	<b>BACKFILL</b> 2" Monitoring Well Installed
<b>BOREHOLE DIAMETER</b> 6.00 in	<b>CORE SIZE</b> 2.0 in
<b>MONITORING EQUIPMENT</b> NA	<b>OUTER CASING</b> Steel
<b>WELL INSTALLED</b> 12/07/2020	<b>WELL STICKUP</b> Stickup (Default), 3.0 ft
<b>DEVELOPMENT METHOD</b> Bailing	<b>WELL KEY</b> CEC Lock
<b>RESULTS</b> Cloudy	<b>NOTES</b>
<b>YIELD</b> 3.5 gal	

**WATER LEVELS**

- ☒ At Drilling: 12/01/2020 87.00 ft bgs / Elev 1087.00 ft amsl
- ☒ End of Drilling: 12/07/2020 146.75 ft bgs / Elev 1027.25 ft amsl
- ☒ After Drilling: 12/08/2020 146.95 ft bgs / Elev 1027.05 ft amsl
- ☒ Temporary Well: NA
- ☒ Permanent Well: NA

NA - Not Available, bgs - below ground surface, amsl - above mean sea level



(Continued Next Page)



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 333 Baldwin Road  
 Pittsburgh, PA 15205-1751

**MONITORING WELL NUMBER MW-107B**

PAGE 2 OF 3

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM
45				Gray, LIMESTONE, Highly weathered to Moderately weathered, Very Broken to Moderately Broken, Hard to Very Hard. (BEDROCK)	1129.0	NQ-4	
50				Gray to Light Gray, SILTSTONE, Highly weathered to Slightly weathered, Very Broken to Moderately Broken, Hard to Very Hard, Limey, Laminated, Fine Sand laminations 71-72.8 ft.bgs (BEDROCK)	1124		Bentonite Chips
55						NQ-5	2-inch PVC Riser
60					1114		
65						NQ-6	
70					1104		
75						NQ-7	
80				Brownish Gray to Greenish Gray, LIMESTONE AND SILTSTONE, Slightly weathered, Slightly Broken to Moderately Broken, Soft to Medium Hard, Interbedded, Vertical Fracture 114.45-114.50 ft.bgs (BEDROCK)	1094.0		
85				▽ Reddish brown decomposed SHALE seam (83-85.4 ft.bgs) Wet at 87.0 ft.bgs		NQ-8	
90					1084		
95				Completely weathered Limestone seam (93-94 ft.bgs)		HQ-9	
100					1074		
105				Vertical fracture (103.5 ft.bgs) Highly weathered Limestone seam 104-104.5 ft.bgs		HQ-10	
110					1064		
115				Vertical fracture (114.45-114.5) Highly weathered at 116 ft.bgs and 119 ft.bgs		HQ-11	

(Continued Next Page)



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333 Baldwin Road  
Pittsburgh, PA 15205-1751

**MONITORING WELL NUMBER MW-107B**

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM	
120				Brownish Gray to Greenish Gray, Limestone and SILTSTONE, Slightly weathered, Slightly Broken to Moderately Broken, Soft to Medium Hard, Interbedded, Vertical Fracture 114.45-114.50 ft.bgs (BEDROCK) <i>Light Gray to Greenish Gray CLAYSTONE seam</i>	1054.0		Bentonite Chips	
125						HQ-12	2-inch PVC Riser	
130					130.0 ft Light Gray to Dark Gray, SILTSTONE AND CLAYSTONE, Moderately weathered to Slightly weathered, Slightly Broken to Moderately Broken, Soft to Medium Hard, Laminated, Shaley weathered out seam 136-137 ft.bgs (BEDROCK)	1044.0	HQ-13	Hydrated Bentonite Pellets
135								
140						1034.0		
145					145.0 ft <i>Completely weathered seam (144.7 ft.bgs)</i> Brownish Gray to Light Gray, Limestone, Slightly weathered to Moderately weathered, Moderately Broken to Slightly Broken, Medium Hard to Hard, Sandy, Thin Bedded, Fine to Medium, Interbedded, Loss of down hole core water at -155 ft.bgs (BEDROCK)	1029.0	HQ-14	0.01" Slotted Screen
150						1024.0		Clean Quartz Sand
155					155.0 ft Brownish Gray to Light Gray, CLAYSTONE, Slightly weathered to Moderately weathered, Broken to Slightly Broken, Soft to Medium Hard, Laminated, Some Calcareous laminations (BEDROCK)	1019.0	HQ-15	Hydrated Bentonite Chips
160						1014.0		
165							HQ-16	
167.0					167.0 ft End of boring at 167.0 feet	1007.0		
170						1004.0		
175								
180						994.0		
185								
190						984.0		



Civil & Environmental Consultants, Inc.  
393 Baldwin Road  
Pittsburgh, PA 15205-1751

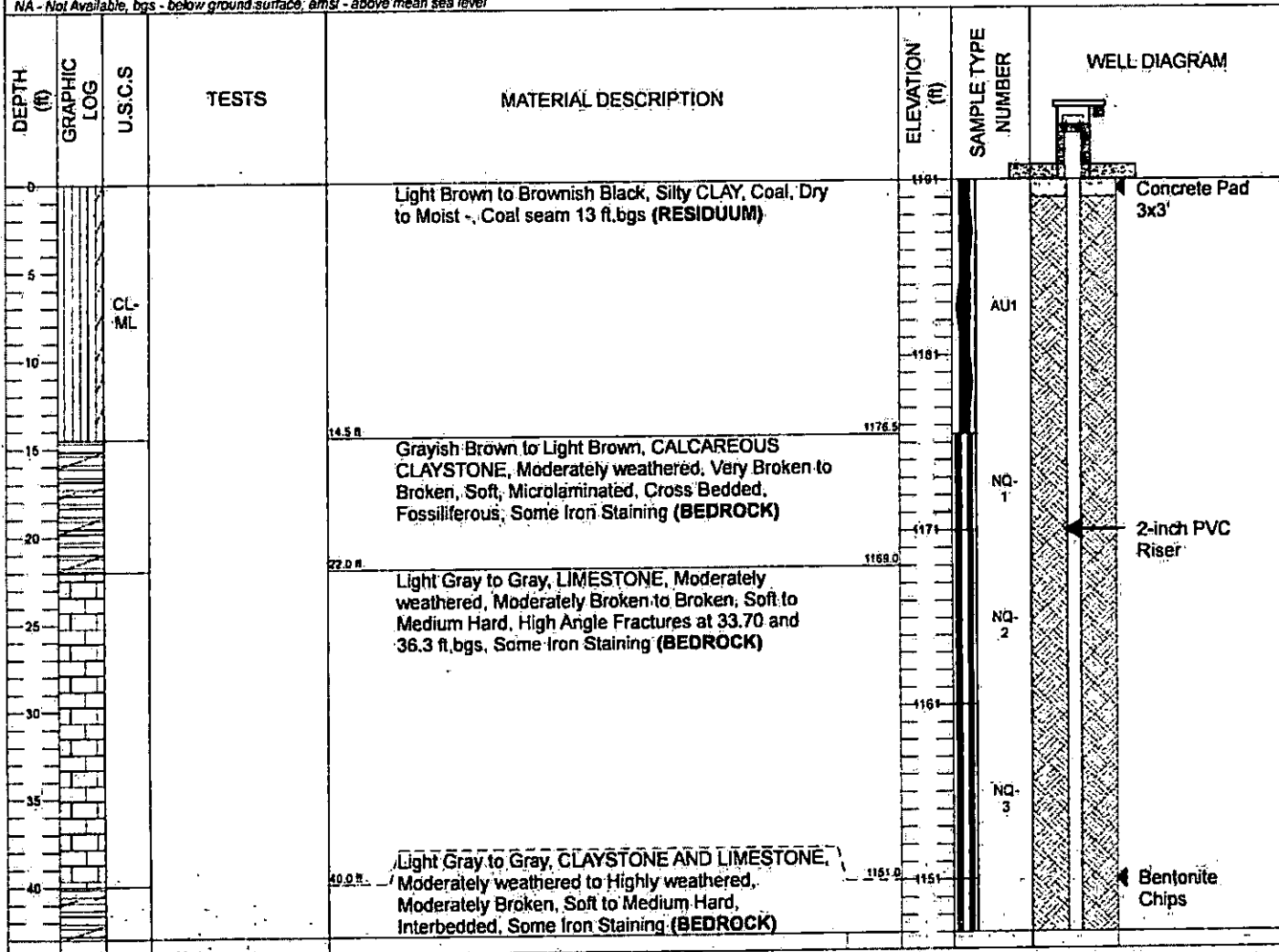
# MONITORING WELL NUMBER MW-108B

<b>CLIENT</b> First Energy	<b>PROJECT NAME</b> Rivesville Ash Landfill
<b>PROJECT NUMBER</b> 193-316	<b>PROJECT LOCATION</b> Rivesville, WV
<b>DATE STARTED</b> 12/08/2020	<b>DATE COMPLETED</b> 12/10/2020
<b>CEC FIELD REPRESENTATIVE</b> EAM	<b>REVIEWED BY</b> BEK
<b>GROUND ELEVATION</b> 1191.00 ft amsl	<b>CASING ELEVATION</b> 1194.28 ft amsl
<b>LATITUDE</b> 39.540542	<b>LONGITUDE</b> -80.095457
<b>DRILLING CONTRACTOR</b> Terra Testing, Inc.	<b>DRILLER</b> Tom Canton
<b>DRILLING METHOD</b> 6-1/4-in Hollow Stem Auger + NQ Core	<b>BACKFILL</b> 2" Monitoring Well Installed
<b>BOREHOLE DIAMETER</b> 6.00 in	<b>CORE SIZE</b> 2.0 in
<b>MONITORING EQUIPMENT</b> NA	<b>OUTER CASING</b> Steel
<b>WELL INSTALLED</b> 12/10/2020	<b>WELL STICKUP</b> Stickup (Default), 3.3 ft
<b>DEVELOPMENT METHOD</b> Bailing	<b>WELL KEY</b> CEC Lock
<b>RESULTS</b> Cloudy	<b>NOTES</b>
<b>YIELD</b> 15.0 gal	

**WATER LEVELS**

- At Time of Drilling: NA
- End of Drilling: 12/09/2020 128.90 ft bgs / Elev 1062.10 ft amsl
- After Drilling: 12/10/2020 128.75 ft bgs / Elev 1062.25 ft amsl
- Temporary Well: NA
- Permanent Well: NA

NA - Not Available, bgs - below ground surface, amsl - above mean sea level



(Continued Next Page)



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333 Baldwin Road  
Pittsburgh, PA 15205-1751

# MONITORING WELL NUMBER MW-108B

PAGE 2 OF 3

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM
45				Light Gray to Gray, CLAYSTONE AND LIMESTONE, Moderately weathered to Highly weathered, Moderately Broken, Soft to Medium Hard, Interbedded, Some Iron Staining (BEDROCK)	1141	NQ-4	
50				1141	NQ-5		
55				1131.0	NQ-6		
60				1121	NQ-7		
65				1111	NQ-8		
70							
75							
80							
85							
90							
90.0 ft				Light Gray to Dark Gray, LIMESTONE AND SILTSTONE, Moderately weathered, Broken to Moderately Broken, Soft to Hard, Laminated, Interbedded, Completely weathered 110-112 ft, bgs (BEDROCK)	1101.0	NQ-9	
100				Reddish Brown SHALE Seam at (100-101 ft, bgs)	1091	NQ-10	
105					1081		
110							
115						NQ-11	

(Continued Next Page)





Civil & Environmental Consultants, Inc.  
333 Baldwin Road  
Pittsburgh, PA 15205-1751

# MONITORING WELL NUMBER MW-108B

PAGE 3 OF 3

CLIENT First Energy

PROJECT NAME Rivesville Ash Landfill

PROJECT NUMBER 193-316

PROJECT LOCATION Rivesville, WV

DEPTH (ft)	GRAPHIC LOG	U.S.C.S	TESTS	MATERIAL DESCRIPTION	ELEVATION (ft)	SAMPLE TYPE NUMBER	WELL DIAGRAM
120				Light Gray to Dark Gray, LIMESTONE AND SILTSTONE, Moderately weathered, Broken to Moderately Broken, Soft to Hard, Laminated, Interbedded, Completely weathered 110-112 ft.bgs (BEDROCK)	1071	NQ-12	2-inch PVC Riser
125					Bentonite Chips		
130					Hydrated Bentonite Pellets		
135					Clean Quartz Sand		
140					0.01" Slotted Screen		
145							
150							
155							
160							
165							
170							
175							
180							
185							
190							
				High angle fracture (131 ft.bgs)	1061	NQ-13	
			Gray, CALCAREOUS CLAYSTONE, Drill Rig went through a softer zone at approximately 135-140 ft.bgs, little to no recovery (BEDROCK)	1051			
				End of boring at 140.0 feet	1041		
					1031		
					1021		
					1011		
					1001		

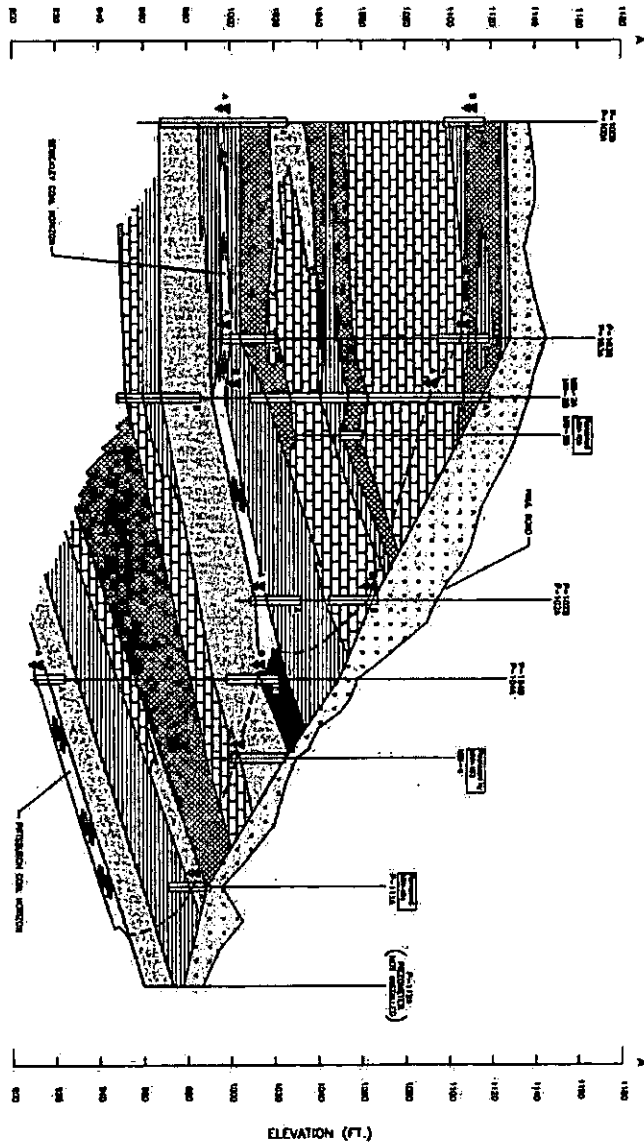
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**APPENDIX B**

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ELEVATION (FT.)



SEE SHEET 17-1-10 FOR CONTINUATION

CONCRETE WITH COIL, 1'-4" TO 2'-0"

SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

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SEE SHEET 17-1-10

SEE SHEET 17-1-10

SEE SHEET 17-1-10

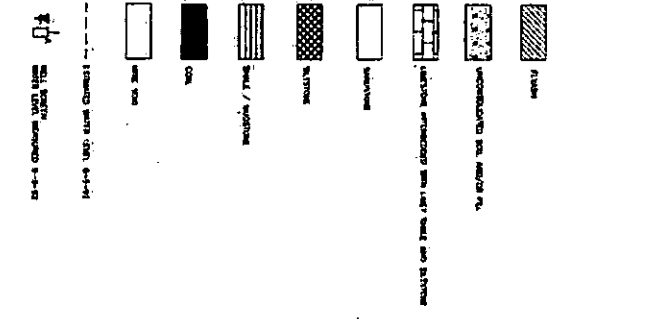
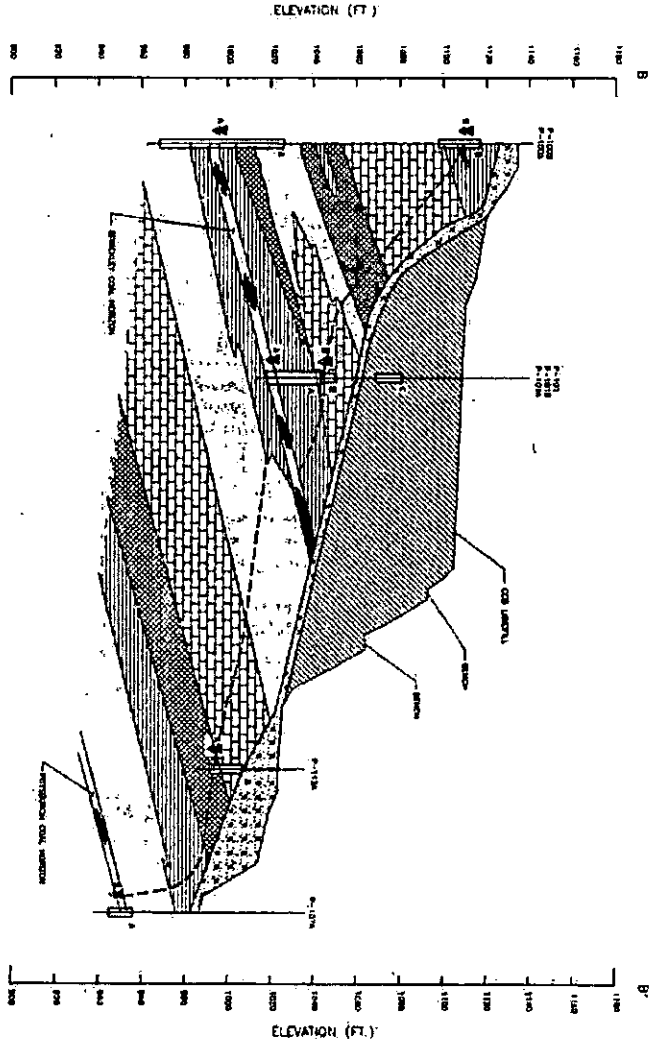
SEE SHEET 17-1-10

SEE SHEET 17-1-10

GENERAL NOTES:  
 1. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS AND FIELD NOTES FOR THIS PROJECT AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CONTRACT.  
 2. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS AND FIELD NOTES FOR THIS PROJECT AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CONTRACT.  
 3. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS AND FIELD NOTES FOR THIS PROJECT AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CONTRACT.  
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 5. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS AND FIELD NOTES FOR THIS PROJECT AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CONTRACT.  
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 8. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS AND FIELD NOTES FOR THIS PROJECT AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CONTRACT.  
 9. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS AND FIELD NOTES FOR THIS PROJECT AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CONTRACT.  
 10. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS AND FIELD NOTES FOR THIS PROJECT AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CONTRACT.

PROJECT NO.	17-1-10
DATE	07/24/11
DESIGNED BY	CHAD A. GARDNER
CHECKED BY	CHAD A. GARDNER
APPROVED BY	CHAD A. GARDNER
DATE	07/24/11
PROJECT NO.	17-1-10
DATE	07/24/11
DESIGNED BY	CHAD A. GARDNER
CHECKED BY	CHAD A. GARDNER
APPROVED BY	CHAD A. GARDNER
DATE	07/24/11

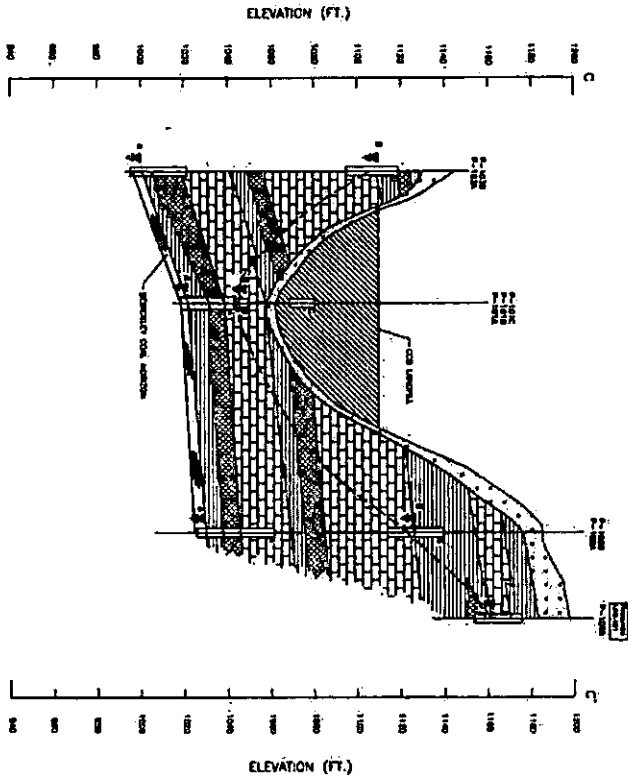
PROJECT NO.	17-1-10
DATE	07/24/11
DESIGNED BY	CHAD A. GARDNER
CHECKED BY	CHAD A. GARDNER
APPROVED BY	CHAD A. GARDNER
DATE	07/24/11
PROJECT NO.	17-1-10
DATE	07/24/11
DESIGNED BY	CHAD A. GARDNER
CHECKED BY	CHAD A. GARDNER
APPROVED BY	CHAD A. GARDNER
DATE	07/24/11



GENERAL COMMENTS:  
 The geologic map was prepared by the U.S. Geological Survey, Denver, Colorado, in cooperation with the Alabama Department of Conservation and Forestry, Montgomery, Alabama. The map is based on data collected by the U.S. Geological Survey and the Alabama Department of Conservation and Forestry. The map is a preliminary map and is subject to change without notice. The map is not to be used for any purpose other than that for which it was prepared.

Project Name	ALABAMA ENERGY SURVEY
Location	MONROEVILLE, AL
Scale	1:50,000
Date	10/29/61
Prepared by	U.S. GEOLOGICAL SURVEY
Checked by	U.S. GEOLOGICAL SURVEY
Approved by	U.S. GEOLOGICAL SURVEY

Sheet No.	1
Scale	1:50,000
Date	10/29/61
Prepared by	U.S. GEOLOGICAL SURVEY
Checked by	U.S. GEOLOGICAL SURVEY
Approved by	U.S. GEOLOGICAL SURVEY



- Sandstone
  - Sandstone with pebbles
  - Sandstone with pebbles and shale
  - Sandstone
  - Sandstone
  - Sandstone
  - Sandstone
  - Coal
  - Sandstone
- GROUND WATER LEVEL 8-8-87
- SANDSTONE SECTION 8-8-87

THE ABOVE LIST OF STRATA IS BASED ON THE INFORMATION RECEIVED IN THE FIELD BY THE GEOLOGICAL SURVEY OF PENNSYLVANIA AND IS NOT A GUARANTEE OF THE ACCURACY OF THE INFORMATION. THE GEOLOGICAL SURVEY OF PENNSYLVANIA IS NOT RESPONSIBLE FOR ANY LOSS OR DAMAGE TO PROPERTY OR PERSONS ARISING FROM THE USE OF THIS INFORMATION.

ALLEGANY ENERGY SYSTEM PENNSYLVANIA POWER SYSTEM COAL LENS GEOLOGICAL CROSS SECTION C-C'	
PREPARED BY G. M. & S. J. GEORGE PENNSYLVANIA GEOLOGICAL SURVEY HARRISBURG, PA.	DATE 07/19/01




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**APPENDIX C**

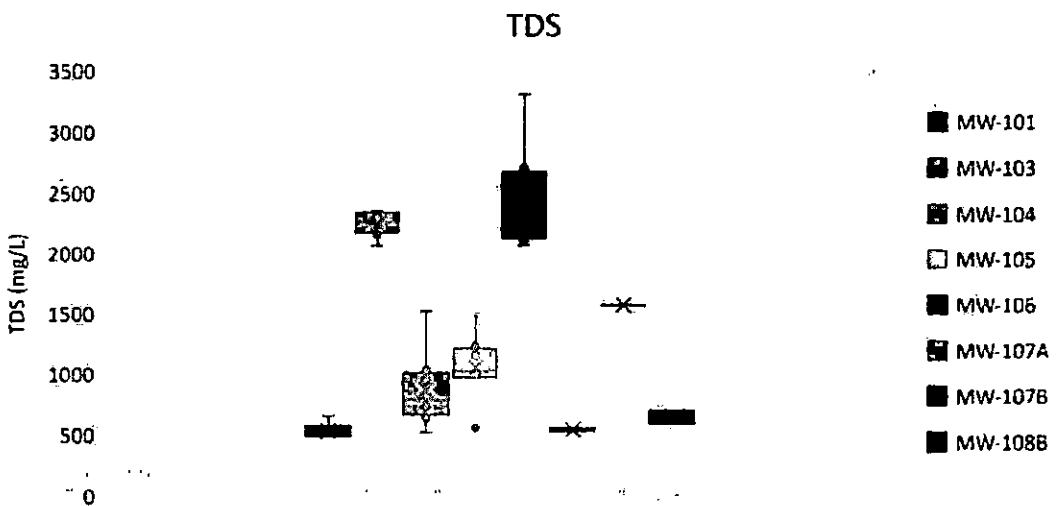
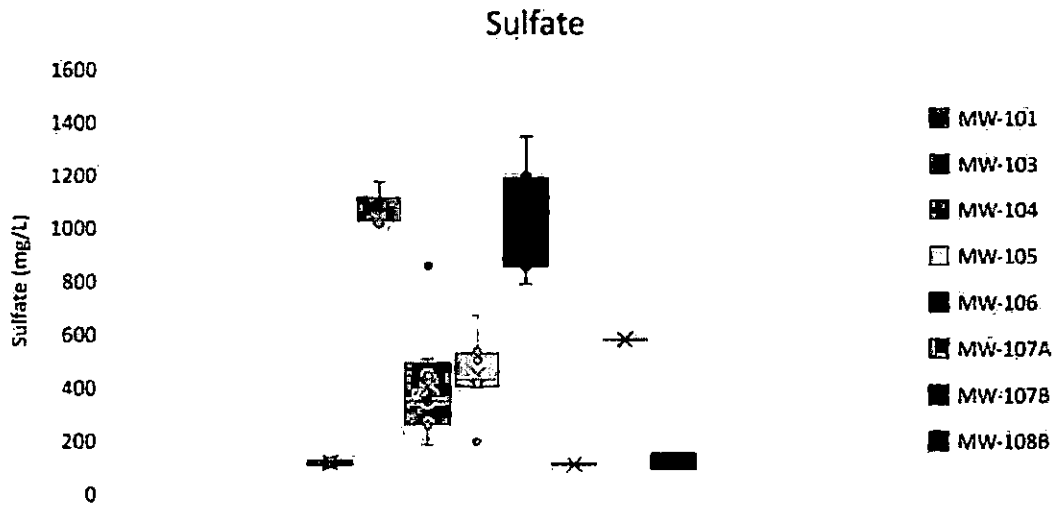
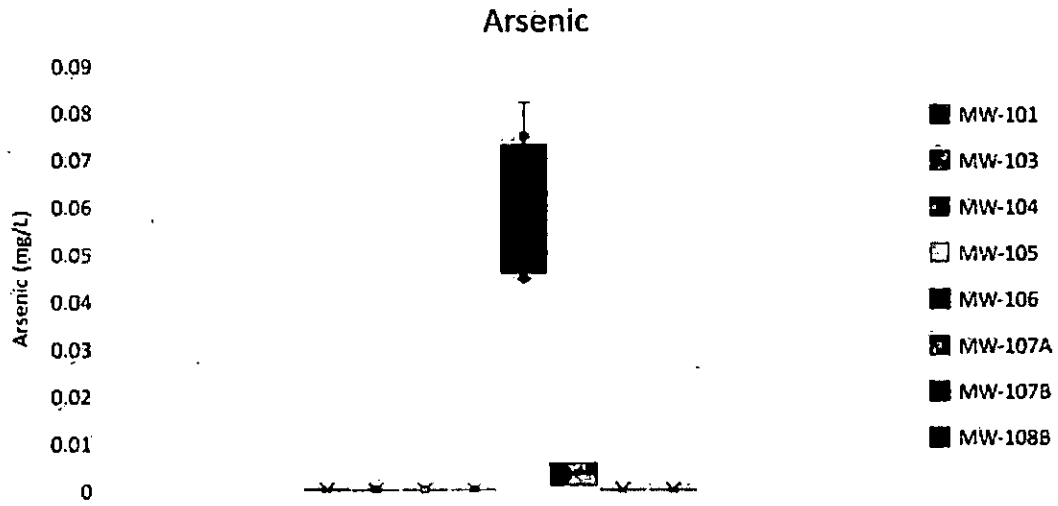
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**Appendix C**

**Box-Whisker Plots**

**Rivesville Ash Landfill Groundwater Assessment**



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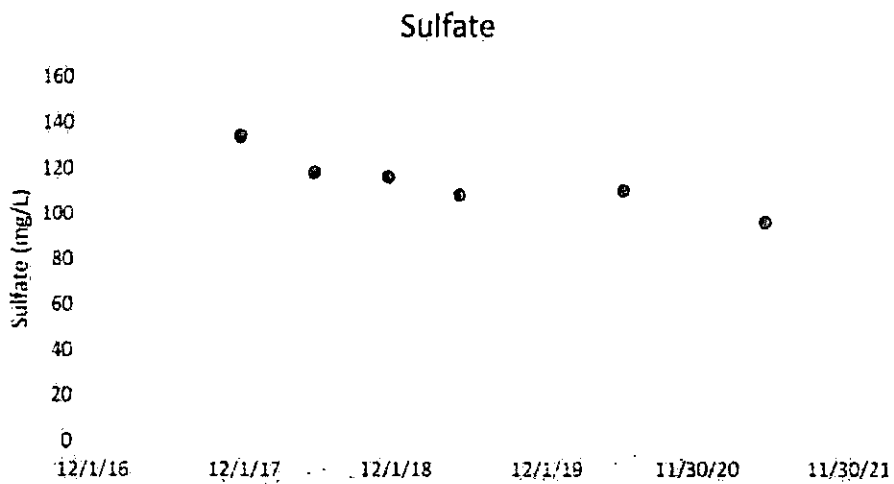
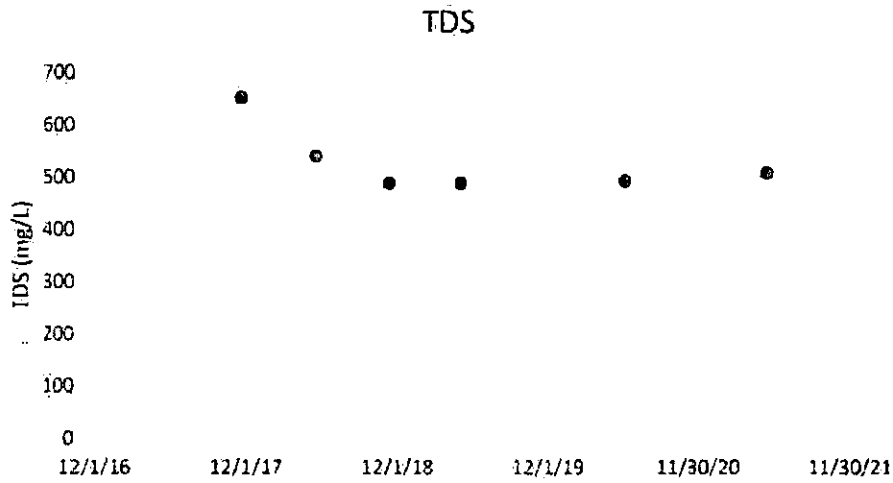
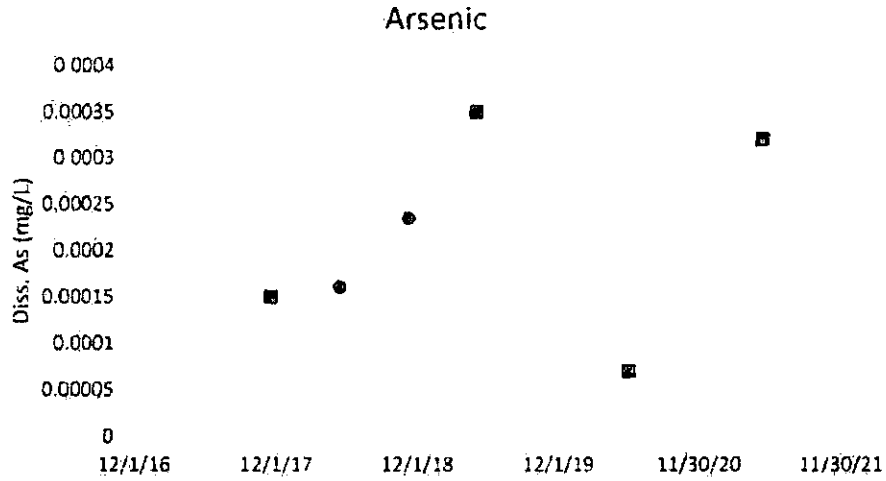
**APPENDIX D**

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**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-101**

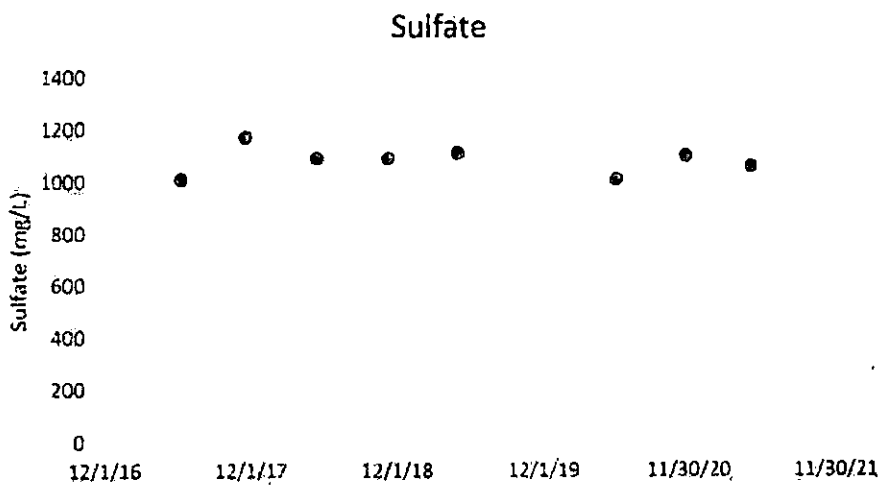
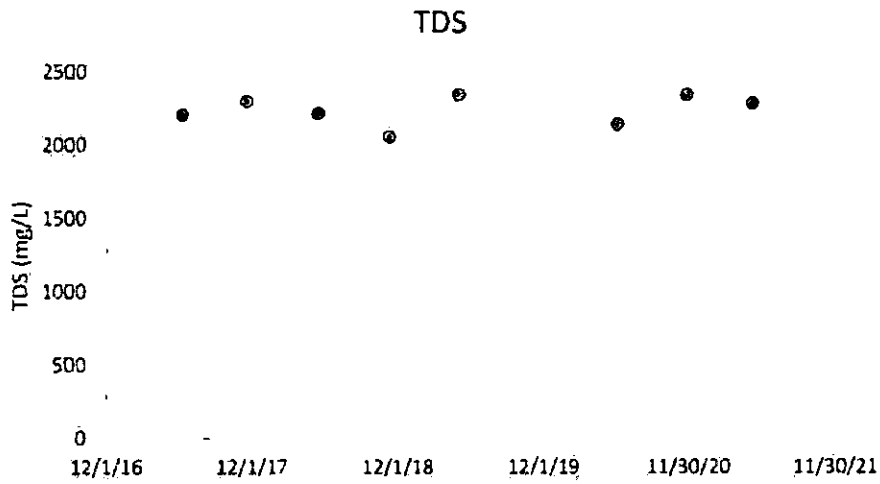
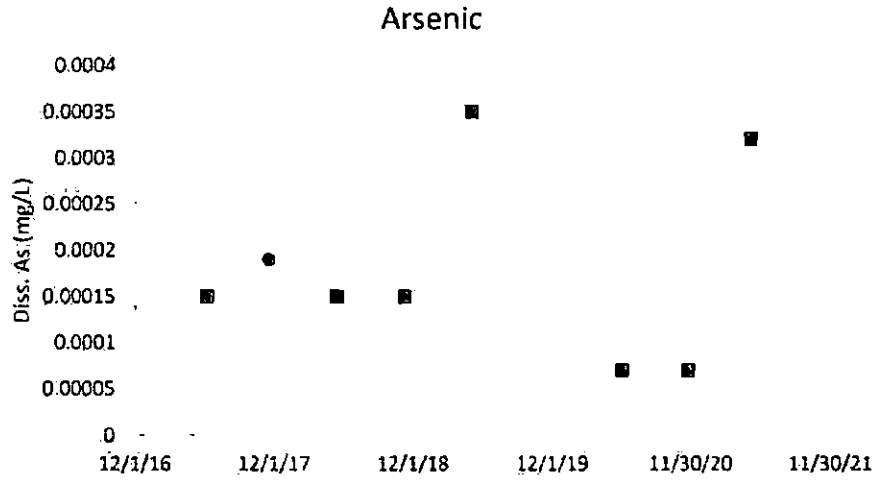
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**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-103**

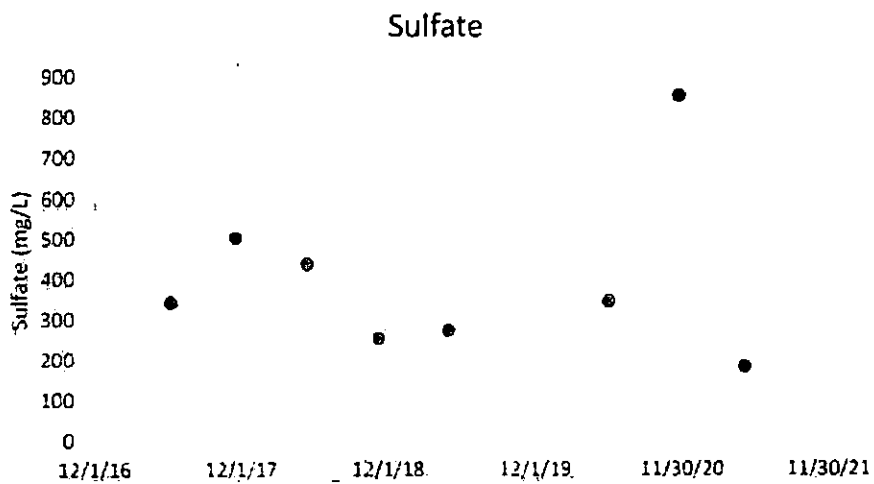
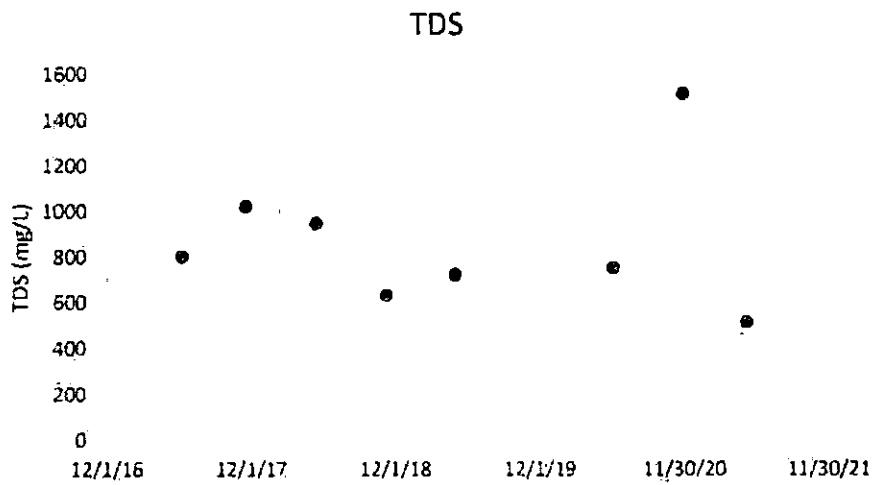
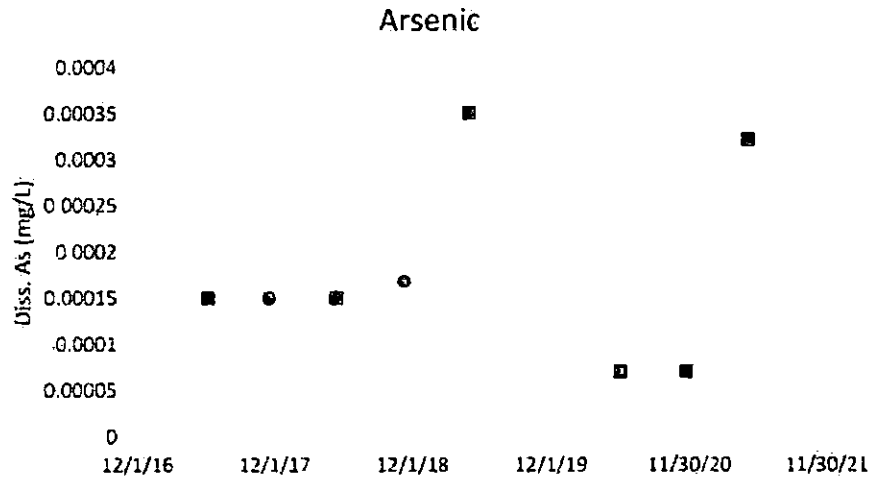
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**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-104**

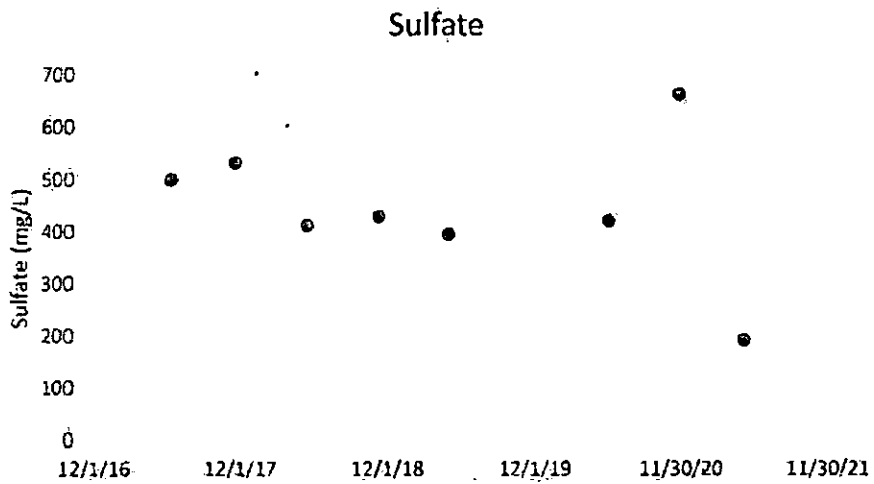
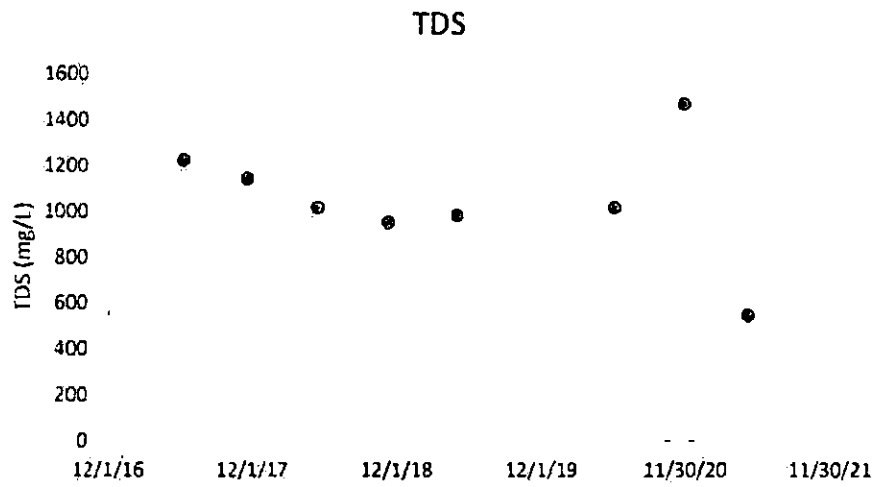
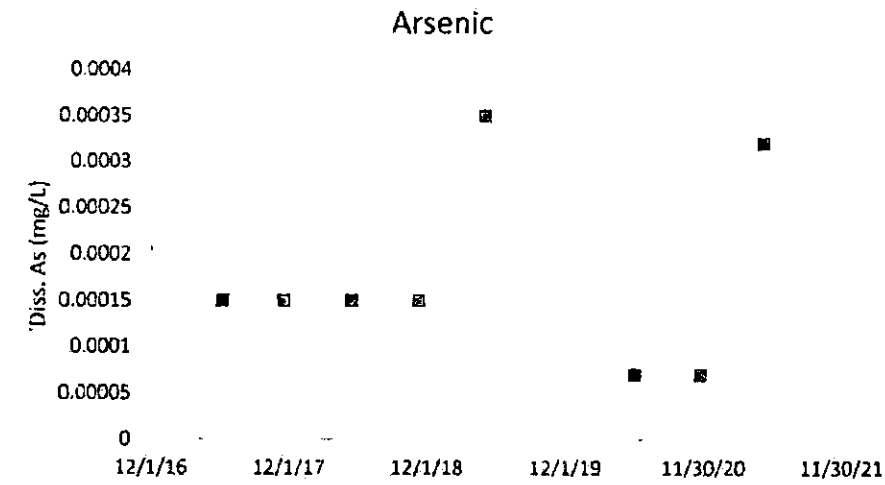
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**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-105**

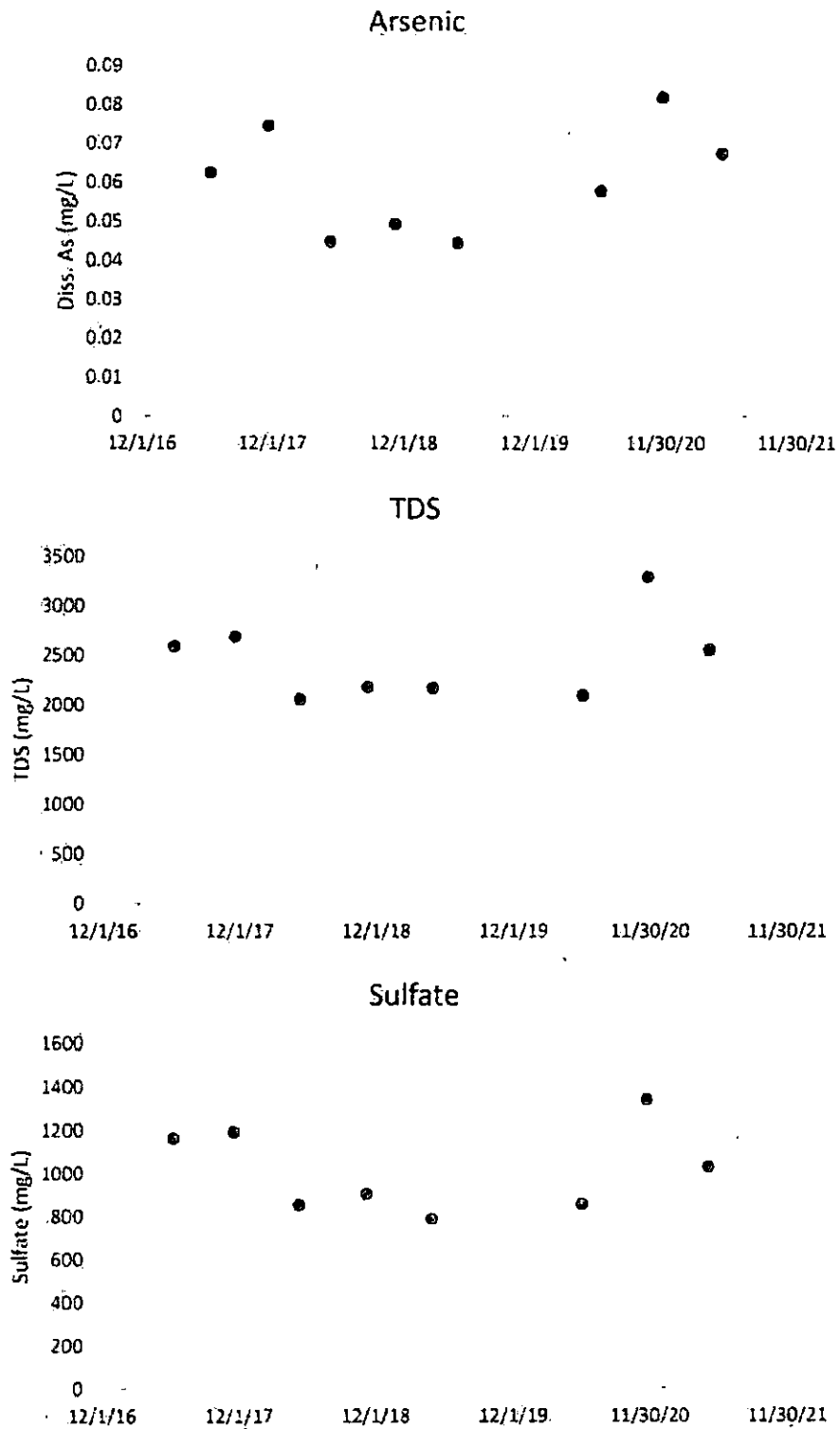
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**Appendix D**  
**Time-Trend Graphs**  
**Rivésville Ash Landfill Groundwater Assessment**

**MW-106**

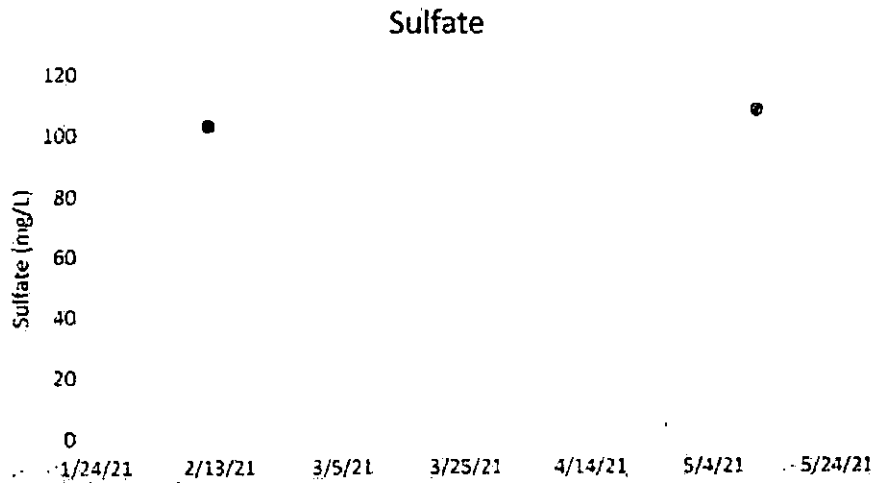
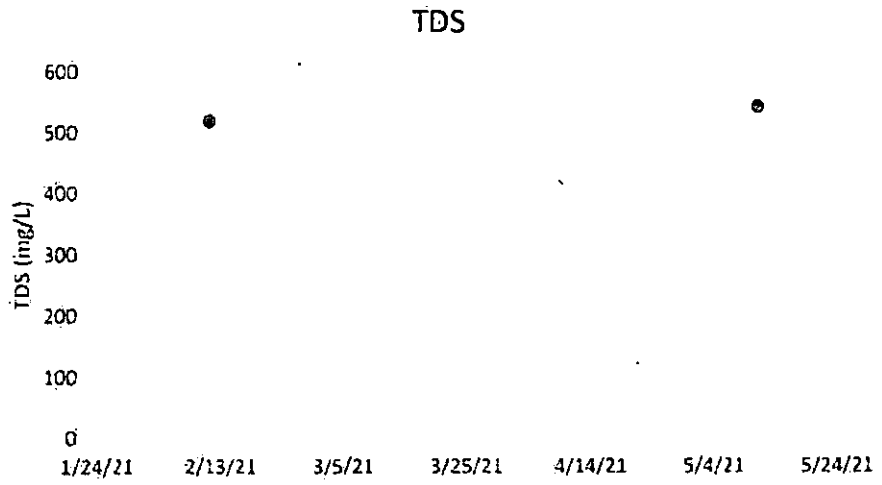
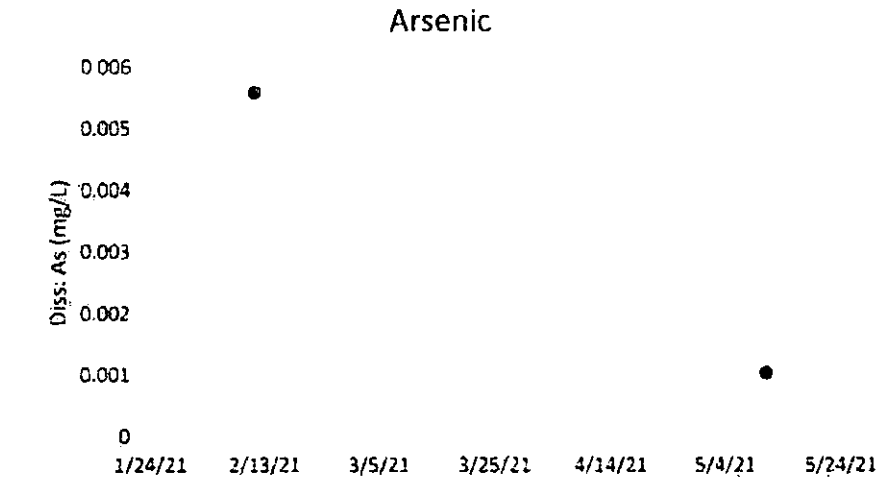
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**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-107A**

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 ● Detected result

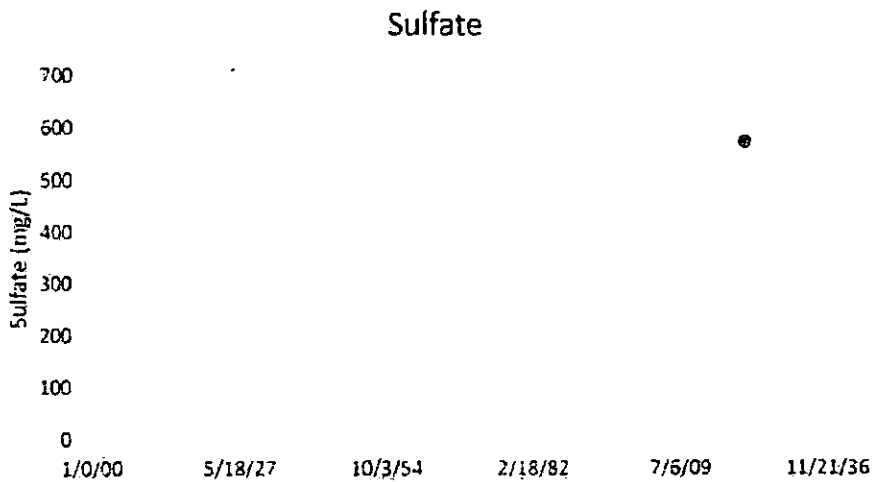
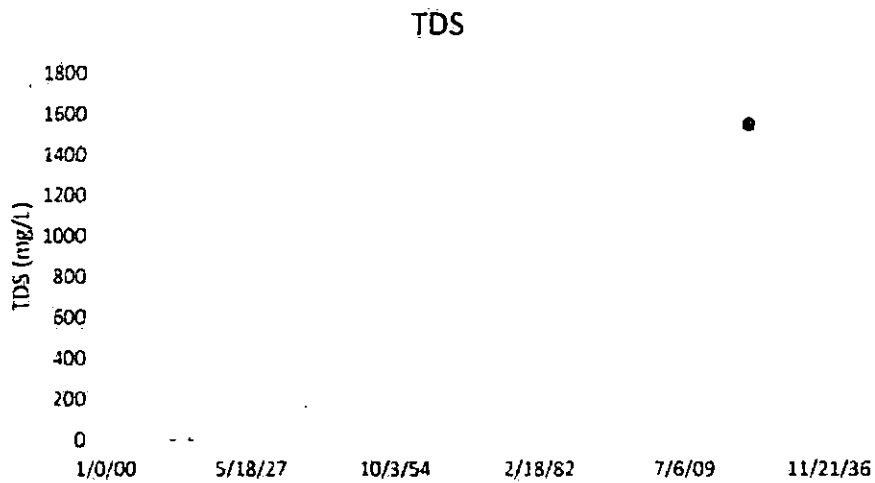
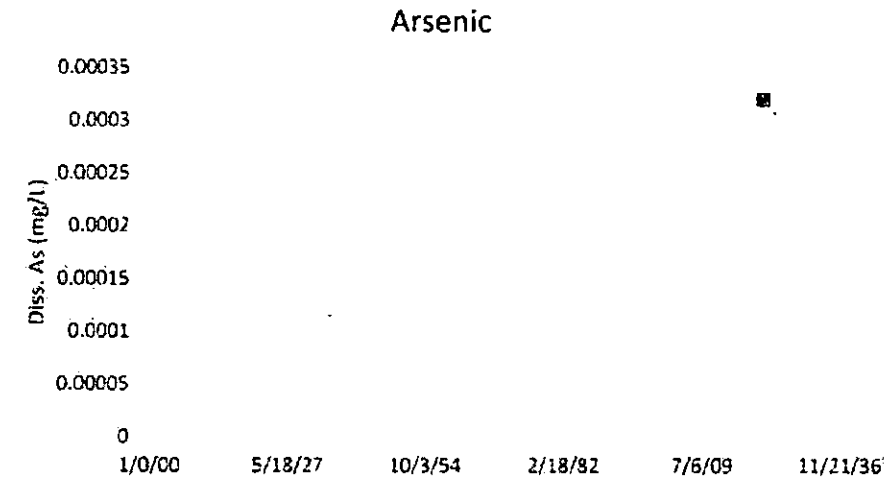




**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-107B**

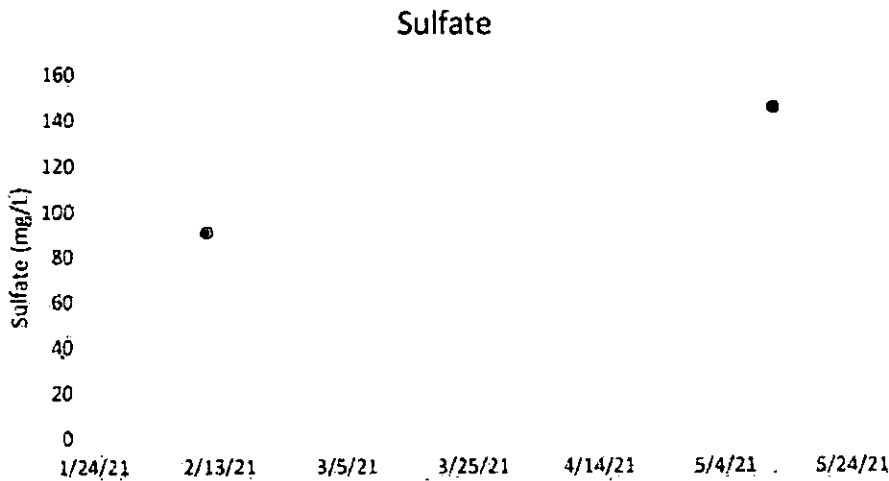
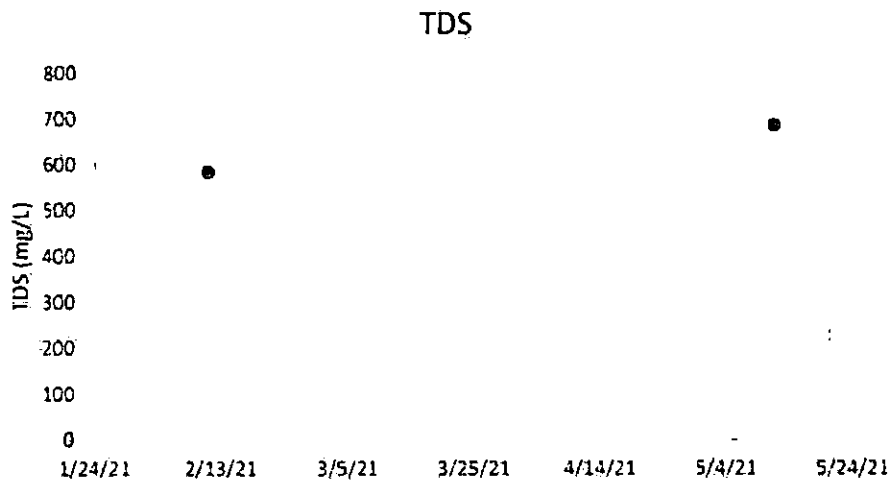
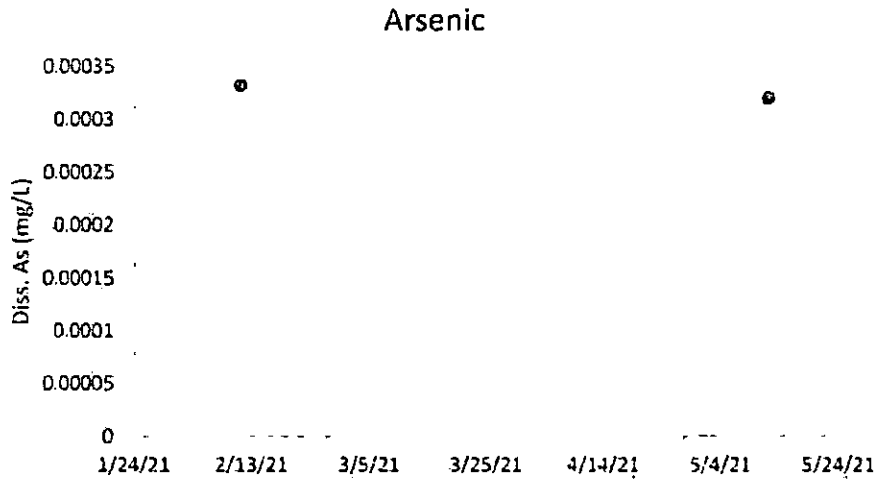
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**Appendix D**  
**Time-Trend Graphs**  
**Rivesville Ash Landfill Groundwater Assessment**

**MW-1088**

■ Non-detect  
 ● Detected result



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APR 14 2021



800 Cabin Hill Drive  
Greensburg, PA 15601

DWWIM WASTE

**EMAIL and USPS MAIL**

April 12, 2021

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Average Monthly Total Recoverable Aluminum limit of 0.29 mg/L during March 2021.

**Description of Discharge (Outlet 006)**

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on March 1 (Aluminum of 0.5163 mg/L, flow of 150 gpm), March 18 (Aluminum of 0.4319 mg/L, flow of 10 gpm) and March 29 (Aluminum of 0.4900 mg/L, flow of 50 gpm) resulting in an exceedance (0.4794 mg/L) of the Average Monthly Total Recoverable Aluminum limit.

**Cause of Noncompliance**

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but continues to be uncertain.

**Steps Taken to Reduce, Eliminate & Prevent Recurrence**

The site is closed, fully vegetated, and there is no activity. The lined sedimentation pond was dredged at closure. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation pond's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Despite the minimal erosive activity at this closed site, the lined pond was again proactively dredged in late 2019. Acting upon a theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, as part of its Corrective Action Plan to address Compliance Order 9032, installed a turbidity boom/curtain across the pond's width, at a point roughly bisecting the basin, on March 24, 2020. Aluminum values trended downward thereafter. The pond remains highly stratified following winter. Continued monitoring is proposed.


Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
April 12, 2021  
Page 2

Length of Noncompliance

Uncertain. The reported Monthly Average limit exceedance occurred during March 2021.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,

  
Mark A. Vindivich  
Manager, Remediation,  
CCR & Environmental Services

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston

bc: A. B. Habershaw - G-CH  
D. C. Havallo - A-WAC-C1  
D. L. Hoone - G-CVW-3  
J. J. Kapolka - G-CH  
F. D. Lawson - M-MORG-1A  
J. A. Meade - G-CH  
M. A. Vindivich - WV-WPSC  
C. A. Wolfe - MRPS  
Environmental Master File

U:/corp/env/environmental/ufs/wqww/rpdes program/noncompliance letters/2021 (10)/wv/Rivesville/006 March Al Ave exc

RECEIVED

**EMAIL and USPS MAIL**

FEB 24 2021

February 16, 2021

DWVN: WASTE

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

**RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776**

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Average Monthly Total Recoverable Aluminum limit of 0.29 mg/L during January 2021.

**Description of Discharge (Outlet 006)**

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on January 4 (Aluminum of 0.7542 mg/L, flow of 30 gpm) and January 14 (Aluminum of 0.6483 mg/L, flow of 5 gpm) resulting in an exceedance (0.7012 mg/L) of the Average Monthly Total Recoverable Aluminum limit.

**Cause of Noncompliance**

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but continues to be uncertain.

**Steps Taken to Reduce, Eliminate & Prevent Recurrence**

The site is closed, fully vegetated, and there is no activity. The lined sedimentation pond was dredged at closure. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation pond's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Despite the minimal erosive activity at this closed site, the lined pond was again proactively dredged in late 2019. Acting upon a theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, as part of its Corrective Action Plan to address Compliance Order 9032, installed a turbidity boom/curtain across the pond's width, at a point roughly bisecting the basin, on March 24, 2020. Aluminum values trended downward thereafter. During January 2021 the pond froze over again and remains highly stratified. Continued monitoring is proposed.

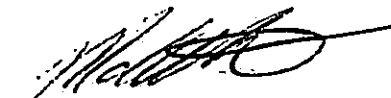
Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
February 16, 2021  
Page 2

Length of Noncompliance

Uncertain. The reported Monthly Average limit exceedance occurred during January 2021.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Mark A. Vindivich  
Manager, Remediation,  
CCR & Environmental Services

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston



February 16, 2021

Dear James McGee:

The following is in response to your request for proof of delivery on your item with the tracking number:  
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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: 304-926-0495 / Fax: 304-926-0496

Austin Caperton, Cabinet Secretary  
dep.wv.gov

January 8, 2021

Mr. William Cannon  
Staff Scientist  
First Energy  
800 Cabin Hill Drive  
Greensburg, PA 15601

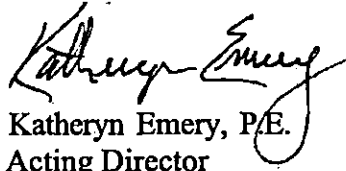
RE: Rivesville Power Station  
Closed Landfill  
Permit No. WV0050776  
Permit Extension

Dear Mr. Cannon:

This letter shall serve as an extension of the Rivesville Power Station Landfill permit. To allow time to complete the permit renewal process, be advised that the Division of Water and Waste Management, under the authority granted by the W.Va. Code, Chapter 22, Article 15, Section 10(c), hereby administratively extends the Rivesville Power Station Landfill permit until the permit issues or until the 31<sup>st</sup> of December, 2021, whichever comes first.

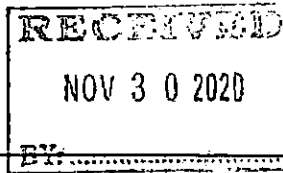
If you have any questions, please contact Christina Facemyer at (304) 926-0499, ext. 43854.

Sincerely,

  
Katheryn Emery, P.E.  
Acting Director

KDE/cmf

cc: Tonya Mather, Inspector Supervisor  
Jason Ely, EE Inspector



SENT VIA USPS

November 24, 2020

Mr. Yogesh Patel  
Division of Water & Waste Management  
WV Dept. Of Environmental Protection  
Waste Permitting Section  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: **Rivesville Power Station**  
**CCR Landfill Permit No. WV0050776**  
**Compliance Order 9032**  
**Updated Corrective Action Schedule**

Dear Mr. Patel:

As requested in your letter of October 30, 2020, the following is an updated schedule of milestones for addressing arsenic in groundwater at the Rivesville Landfill:

<u>Milestone</u>	<u>Begin</u>	<u>End</u>
GWAP Prep (Completed)	6/1/19	10/31/19
GWAP Department Review and Approval (Completed)	12/10/19	10/30/2020
Groundwater Field Investigation	11/30/2020	12/31/2020
GW Assessment Report Prep & Lab Analysis	1/1/21	1/31/21
GW Assessment Report Dept Review/Approval	2/1/21	2/28/21
ACM Report Preparation	3/1/21	3/31/20
ACM Report Dept Review/Approval	4/1/21	4/30/21
Selection of Remedy (SOR) Report Preparation	5/1/21	6/30/21
SOR Report Dept Review & Approval	7/1/21	7/31/21
33SCR1 4.11.f4 Remedy Implementation Schedule	8/1/21	8/31/21

FirstEnergy will notify the Department in writing if any changes to the above milestones become necessary due to unforeseen circumstances such as Covid-19 work restrictions or adverse weather/field conditions. I may be contacted at (724) 205-8743 or via e-mail at [enewbaker\\_iv@firstenergycorp.com](mailto:enewbaker_iv@firstenergycorp.com) if you have any questions.

Sincerely,

Jay Newbaker, P.G.  
Senior Scientist

c: Jeremy Bandy - WVDEP Env Enforcement, Charleston  
Tonya Mather - WVDEP Env Inspector Supervisor, Fairmont  
Christina Facenyer - WVDEP DWWM Permits Charleston  
Jason Ely - WVDEP Env Enforcement, Fairmont

L-1730.25

**SENT VIA USPS**

November 24, 2020

Mr. Yogesh Patel  
Division of Water & Waste Management  
WV Dept. Of Environmental Protection  
Waste Permitting Section  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

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Jay Newbaker, P.G.  
Senior Scientist

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Christina Facemyer - WVDEP DWWM Permits Charleston  
Jason Ely - WVDEP Env Enforcement, Fairmont

L-1730.25

SENT VIA USPS

November 24, 2020

Mr. Yogesh Patel  
Division of Water & Waste Management  
WV Dept. Of Environmental Protection  
Waste Permitting Section  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

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Compliance Order 9032  
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Jay Newbaker, P.G.  
Senior Scientist

c: Jeremy Bandy - WVDEP Env Enforcement, Charleston  
Tonya Mather - WVDEP Env Inspector Supervisor, Fairmont  
Christina Facemyer - WVDEP DWWM Permits Charleston  
Jason Ely - WVDEP Env Enforcement, Fairmont

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VIA USPS

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September 30, 2020

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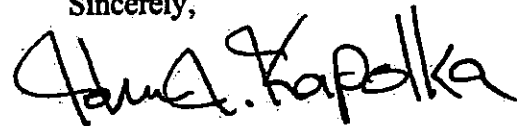
Director, Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345  
Attn: Waste Permitting Section

**RIVESVILLE POWER STATION  
COAL COMBUSTION BYPRODUCT DISPOSAL FACILITY  
SOLID WASTE/NPDES PERMIT NO. WV0050776 ANNUAL REPORT**

Attached is the 2019 Annual Operations Report for the above-referenced facility.

Should you have any questions or desire additional information, please do not hesitate to contact me at (724) 838 - 6824 or at [jkapol1@firstenergycorp.com](mailto:jkapol1@firstenergycorp.com).

Sincerely,



John Jeffrey Kapolka  
Sr. Environmental Specialist

Attachment

**ANNUAL OPERATION REPORT  
2019**

**Rivesville Power Station-Closed CCB Landfill Facility  
Rivesville, WV, Marion County  
Solid Waste/NPDES Water Pollution Control Permit No. WV0050776**

This 2019 annual operation report is submitted in accordance with condition C.3.b of the subject permit and provision 4.12.g of the WV Solid Waste Management Regulations (WV33CSR1).

**1. Facility (Previous) User:**

Rivesville Power Station

**2. Summary of Waste Received at Facility:**

No new disposal has occurred. The Rivesville Power Station was deactivated in 2012.

**3. Summary of Surface and Groundwater Monitoring Activities:**

Refer to monthly Discharge Monitoring Reports for NPDES discharge data and discussion.

Groundwater monitoring was performed on a semi-annual basis during the months of November 2018 and May 2019 for the reporting periods ending March 31 and September 30, 2019, respectively. Interwell and intrawell statistical analysis performed on the groundwater data for both reporting periods showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). Arsenic re-sampling events also confirmed the permit limit exceedances in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

The Annual Groundwater Flow and Direction Report is attached.

The annual cleaning of the Leak Detection/Underdrain System Lines underlying the surface impoundment, required by Permit Condition C.11, was completed on May 29, 2019. No blockages were reported.

**4. Description of Site Development:**

The Rivesville Power Station was deactivated in 2012. The CCB disposal facility was closed in 2014 and subsequently a Construction Quality Assurance Closure Completion Report was submitted October 30, 2014.

The current renewal for Permit No. WV0050776 was issued February 18, 2015 with an effective date of April 1, 2015 and an expiration date of February 17, 2020. A new permit renewal application was submitted via the Department's Electronic Submission System (ESS) on August 14, 2019.

Quarterly Storm Water Pollution Prevention/Groundwater Protection Plan inspections are performed, and any appropriate actions taken.

**5. Topographic Mapping:**

No topographic mapping is provided. An As-built Final Grade and Features Drawing No. C75408681 was included with the Construction Quality Assurance Closure Completion Report submitted October 30, 2014 and is still representative of current site conditions.

## **2019 Annual Groundwater Flow and Direction Report Rivesville Power Station – Solid Waste Disposal Site Solid Waste Disposal/NPDES Permit No. WV0050776**

### **Summary of 2019 Surface and Groundwater Monitoring Activities:**

Groundwater monitoring was performed on a semi-annual basis during the months of November 2018 and May 2019 for the reporting periods ending March 31 and September 30, 2019, respectively. Interwell and intrawell statistical analysis performed on the groundwater data for both reporting periods showed statistically significant increases of arsenic in MW-106 above Groundwater Protection Standards (GWPS). Arsenic re-sampling events also confirmed the permit limit exceedances in MW-106. The results and associated statistical analysis were reported to the Department via the eDMR module in the Electronic Submission System (ESS).

The Department issued a Notice of Violation to Mon Power in August 2019 to take corrective action for the arsenic exceedances and a Groundwater Assessment Plan (GWAP) was submitted to the Department in December 2019. As of the date of this Annual Report (Sep 2020), Mon Power is awaiting WVDEP review and approval of the GWAP before performing a field investigation to delineate the extent of arsenic groundwater impacts.

### **2019 Annual Groundwater Flow and Direction Report**

Section C.2d of the Solid Waste/NPDES Permit issued in February 2015 requires a determination of the rate and direction of groundwater flow in the uppermost contiguous aquifer underlying the ash disposal area. The Rind Aquifer has been identified as the uppermost contiguous aquifer beneath the facility. The groundwater monitoring program includes six groundwater monitoring wells installed in the Rind Aquifer. Three pre-existing piezometers/wells were re-designated and included in the program. Three additional wells were installed during May of 2003. One monitoring well (MW-102) was abandoned in September 2010 because it was consistently dry.

Groundwater enters the rind from infiltrating precipitation. Some contribution may also occur as discharge from bedrock aquifers. Groundwater flow in the rind generally mimics surface topography, following the zone of highest permeability. A minor fraction of this groundwater may also infiltrate into deeper strata.

Water level data measured from the wells during the 2019 semi-annual sampling events are shown on the attached table. Groundwater elevation data measured during October 2003 were plotted on a site map and contoured on Drawing Number C75503109 (previously submitted). Groundwater flows in a north/northwest direction toward the sedimentation basin. This groundwater flow pattern generally coincides with the underlying stream valley located beneath the landfill area. Data collected in 2019 shows groundwater flow directions similar to previously submitted data plotted on Drawing Number C75503109.

The maximum and minimum hydraulic gradients were calculated from the groundwater contour map and used to determine the linear velocity of the aquifer. Hydraulic conductivity values were derived from pump tests performed on two of the wells installed in 2003. Assuming a permeability of 10 percent for the fractured bedrock, the calculated velocity for the Rind Aquifer ranges from 1.7 ft/yr to 5.7 ft/yr.

**Rivesville Disposal Site**

**Groundwater Elevations from Semi-Annual Monitoring Events in 2019**

<b>Monitoring Well</b>	<b>T.O.C. Elevation</b>	<b>Elevation (ft.) 2nd Quarter</b>	<b>Elevation (ft.) 4th Quarter</b>	<b>Monitored Zone</b>
MW-101	1202.15	1168.95	1161.59	Rind Aquifer
MW-103	1036.70	1011.02	1009.06	Rind Aquifer
MW-104	998.60	988.60	984.88	Rind Aquifer
MW-105	1044.82	1019.10	1010.78	Rind Aquifer
MW-106	1149.13	1055.81	1054.70	Rind Aquifer



Dear brittany hunt:

9032 Monongahela  
Approved POCA

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west virginia department of environmental protection

Environmental Enforcement  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Telephone: (304) 926-0470 Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
dep.wv.gov

July 23, 2020

Monongahela Power Company  
ATTN: Raymond Evans  
800 Cabin Hill Dr.  
Greensburg, PA 15601-1689

**CERTIFIED RETURN RECEIPT REQUESTED**

9489 0090 0027 6201 6154 76

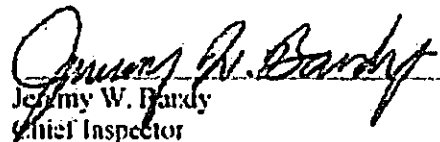
Re: Plan of Corrective Action

Dear Mr. Evans:

West Virginia Department of Environmental Protection (WVDEP) has received your Plan of Corrective Action, dated May 28, 2020, as required by Item No. Two (2) under the Order for Compliance section of Order No. 9032.

WVDEP has determined the enclosed Plan of Corrective Action is acceptable, is hereby approved, and has been incorporated as a term and condition of the Order. Failure to adhere to the approved plan and schedule is a violation of the Order.

Should you have any questions regarding this matter, please contact me at (304) 926-0470.

  
Jeremy W. Hardy  
Chief Inspector

Enclosure

cc: Brad Wright, Assistant Chief Inspector, EE/WW (via e-mail)  
David C. Simmons, Assistant Chief Inspector, EE (via e-mail)  
Laura McGee, Environmental Resources Program Manager, EE (via e-mail)  
Tammy Potter, Environmental Resources Specialist, EE (via e-mail)  
Tonya Mather, Environmental Inspector Supervisor, EE/WW (via e-mail)  
Jason Ely, Environmental Inspector Specialist, EE/WW (via e-mail)  
Shyrel Moellendick, MSSS, EE (via e-mail)

Promoting a healthy environment.



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west virginia department of environmental protection

---

Environmental Enforcement  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Telephone: (304) 926-0470 Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
dep.wv.gov

July 23, 2020

Monongahela Power Company  
ATTN: Raymond Evans  
800 Cabin Hill Dr.  
Greensburg, PA 15601-1689

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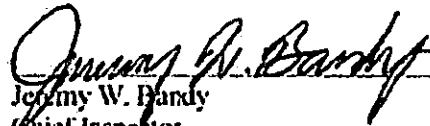
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Should you have any questions regarding this matter, please contact me at (304) 926-0470.

  
Jeremy W. Handy  
Chief Inspector

Enclosure

cc: Brad Wright, Assistant Chief Inspector, EE/WW (via e-mail)  
David C. Simmons, Assistant Chief Inspector, EE (via e-mail)  
Laura McGee, Environmental Resources Program Manager, EE (via e-mail)  
Tammy Potter, Environmental Resources Specialist, EE (via e-mail)  
Tonya Mather, Environmental Inspector Supervisor, EE/WW (via e-mail)  
Jason Ely, Environmental Inspector Specialist, EE/WW (via e-mail)  
Shyrel Moellendick, MSSS, EE (via e-mail)

Promoting a healthy environment.

**USPS and EMAIL**

May 28, 2020

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
WV Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
NPDES Permit No. WV0050776  
Compliance Order 9032  
REVISED Plan of Corrective Action and Schedule**

Dear Chief Inspector:

By letter dated March 16, 2020, Monongahela Power (MP) submitted its penalty payment relative to Compliance Order 9032 and its Proposed Plan of Corrective Action and Schedule (Plan). Your letter, dated May 7, 2020, found MP's Plan unacceptable because: "The POCA does not include a schedule for Phase II sampling and requirements, should a waiver from the WVDEP DWWM Permitting not be granted. Any request for a variance from Phase II requirements shall be submitted to WVDEP DWWM Permitting for approval....submit a revised POCA that addresses the aforementioned deficiency."

MP Response: Within the March 16, 2020 version of the Plan, please refer to Findings of Fact 2.b.ii - Permit Section C.2.h.(4): wherein MP stated: MP requests that WVDEP waive the Phase II monitoring program requirements because organic parameters are not constituents of concern at coal combustion residuals (CCR) landfills. Additionally, by loading a copy of this Corrective Action Plan submittal to the SW/NPDES permit WV0050776 renewal application currently within the WVDEP ESS, MP formally requests that WVDEP incorporate this waiver into Rivesville's upcoming draft renewal permit.

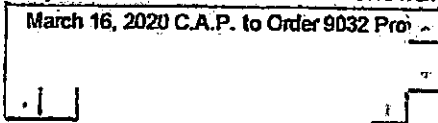
The request for unlocking of the application was made the following day, with the request loaded shortly thereafter, consisting of a Comment and a copy of the Plan. Documentation of these as copied and pasted from the ESS, follows below.

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
May 28, 2020  
Page 2

03/17/2020 The applicant has requested the application be unlocked for revisions. ALL REVIEWER FACEMYER, CHRISTINA MARIA

03/31/2020 As a result of discussions related to Compliance Order 9032 relative to the Rivesville Power Station CCR Landfill, Monongahela Power (MP) was advised by WVDEP Environmental Enforcement staff to specifically request that several items, previously understood based upon former discussions and established practice, but not explicitly stated within the language of currently Administratively Extended WV0050776, be requested to explicitly appear within the renewal permit to be generated from this current application. To this end, a copy of MP's Corrective Action Plan response, dated March 16, 2020 to Compliance Order 9032 is attached. Specifically, referring to Findings of Fact 2.b.1 - Permit Section C.2.h(1), the designation, under 33CSR1 Section 4.4, of an alternate off-site location for maintaining the operating record. Additionally, referring to Findings of Fact 2.b.ii - Permit Section C.2.h.(4); MP requests waiver, under 33CSR1 Section 4.11.c.2, of Phase II Monitoring requirements at this site. MP also requests, in reference to Findings of Fact 2.d - Section C.3.b.(2) and C.11 Annual Water Jet Cleanouts that the requirement to jet the sedimentation pond underdrain be reduced to no more than once per permit cycle. Finally, referring to the section Additional Requests at Permit Renewal, MP asks that the location of LM1 be correctly re-designated as described in detail within that section of the C.A.P. ALL APPLICANT CANNON, WILLIAM

March 16, 2020 C.A.P. to Order 9032 Providing Requests Related to Permit Renewal



WV0050776  
01 16 2020  
CO 9032  
CAP.pdf  
03/31/2020

Don't forget to click the Upload button before closing the window

At that time MP also requested that the pending applications for each of its other landfills be similarly reopened and added similar requests to each of those, too.

Regarding the deficiency of failing to submit a sampling schedule in the event that the requested waiver is denied, please refer to the text inserted under Findings of Fact 2.b.ii - Permit Section C.2.h.(4), Schedule.

The revised Plan follows:

Plan of Corrective Action, revised May 28, 2020

Findings of Fact 2.a - Section A.006 Discharge Limitations -- Outlet 006 exceeded its Total Aluminum limitations during January and February 2018, these being cited in the Consent Order.

Monongahela Power (MP) has explained its theory of these exceedances being due to the gentle inflow of relatively warm leachate atop a highly stratified sedimentation pond, thus causing the relatively warm and thin surface layer to essentially "short-circuit" the mixing and precipitation process, travelling across the fetch of the sedimentation pond to the outlet structure. At the time of our December 10<sup>th</sup> conference at your Charleston Headquarters, we were able to state that no further exceedances had occurred. Since that time, exceedances have occurred during both January and February 2020. MP proposes the following Corrective Action: At minimum the water level in the pond is approximately seven feet deep. At normal high level the water is approximately 10.5 feet deep. A Type 1 Turbidity Curtain barrier with a curtain depth of three feet is being installed across the width of the sedimentation pond and will remain in place year-round. It is envisioned that during highly stratified conditions the relatively warm

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leachate inflow will back up behind this curtain, cool, drop, mix, and precipitation of the aluminum (and other constituents) will increase as this now-mixed flow travels under the curtain on its way toward the outflow structure. There is minimal concern regarding uneven solids buildup as the site is now closed and fully vegetated.

### Schedule

The design has been finalized, suppliers contacted, and permanent installation is anticipated during the spring of 2020.

**Findings of Fact 2.b.i - Permit Section C.2.h(1):** Monongahela Power failed to create an operating record within fourteen (14) days after documenting a statistically significant change from background arsenic levels and failed to notify WVDEP of such.

### Plan

MP reports statistically significant increases (SSIs) above background levels for arsenic by providing the statistical analysis report as an attachment to the electronic discharge monitoring report (eDMR) package submitted within WVDEP's Electronic Submittal System (ESS). This report, an example of which is provided as Attachment 1, clearly identifies what parameters exhibit a statistically significant increase over background levels. MP contends that the eDMR submittal packages constitute the operating record for all groundwater monitoring results.

If results at a statistically significant level above permit limits for any parameter are confirmed by re-sampling, MP will provide written notification to the Director of the Waste Permitting Section, WVDEP Division of Water and Waste Management via certified letter within 14 days of result availability. This notification will be in addition to the eDMR report referenced above.

Because the Rivesville Power Station closed in 2012 and is unmanned, it is impractical to maintain an operating record at the station itself. MP therefore requests that WVDEP approve an alternate location for maintaining the operating record, as is allowable under 33CSR1 §4.4. That alternate location is FirstEnergy's corporate offices at 800 Cabin Hill Drive, Rm A-301, Greensburg, PA 15601 where all site related records and files for the Rivesville station and landfill required by 33CSR1 §4.4 are currently maintained.

### Schedule

MP will continue to report SSIs above background levels on a biannual basis via the eDMR portion of the WVDEP ESS.

**Findings of Fact 2.b.ii - Permit Section C.2.h(4):** Monongahela Power failed to establish and implement a Phase II assessment monitoring program after repeat sampling confirmed that a statistically significant increase over background arsenic levels had occurred.

**Plan**

A Phase II monitoring program entails analyzing groundwater samples for the organic parameters listed in Appendix II of the Solid Waste Management Rule, unless waived by the Secretary upon request of the permittee in accordance with 33 CSR1 §4.11.c.2. MP requests that WVDEP waive the Phase II monitoring program requirements because organic parameters are not constituents of concern at coal combustion residuals (CCR) landfills. Additionally, by loading a copy of this Corrective Action Plan submittal to the SW/NPDES permit WV0050776 renewal application currently within the WVDEP ESS, MP formally requests that WVDEP incorporate this waiver into Rivesville's upcoming draft renewal permit.

33CSR1 §4.11.c.2.E allows the Secretary to delete any of the Phase II monitoring parameters for a SWLF if it can be shown that the removed constituents are not reasonably expected to be in or derived from the waste contained in the SWLF. Two separate large-scale studies have conclusively determined that organic constituents are not found in CCR wastes because they are consumed during the combustion process when generating power.

Specifically, EPAs *Report to Congress: Wastes from the Combustion of Fossil Fuels: Volume 2 – Methods, Findings, and Recommendations*, found that the concentration of all organic parameters in both CCR and CCR leachate were at or below analytical detection limits. As a result, EPA concluded that organics are not risk drivers at coal ash landfills and does not require analysis for organics in groundwater or leachate under the CCR Rule (40 CFR 257).

In addition, the Electric Power Research Institute (EPRI) analyzed coal ash disposal site leachate for over 200 VOCs and SVOCs in its report entitled *Coal Combustion Residuals Leachate Management, Characterization of Leachate Quality, Final Report 3002007125 (EPRI December 2016)*. No organic compounds were detected in any of the individual leachate samples from 75 sites.

**Schedule**

As indicated above, MP has already formally requested that WVDEP DWWM waive the Phase II sampling requirements. MP does not propose to begin any Phase II groundwater sampling until after the WVDEP DWWM indicates whether or not the waiver is granted. The schedule will therefore be relative to the waiver decision date. (Note that 33CSR1 §4.11.c.2.C. requires four rounds of independent samples to establish background for new constituents)

<u>Milestone</u>	<u>Begin</u>	<u>End</u>
Conduct Phase II Round 1 Groundwater Sampling	Negative Waiver Decision Date (NWDD)	NWDD + 60 Days
Conduct Phase II Round 2 Groundwater Sampling	NWDD + 60 Days	NWDD + 90 Days
Conduct Phase II Round 3 Groundwater Sampling	NWDD + 90 Days	NWDD + 120 Days
Conduct Phase II Round 4 Groundwater Sampling	NWDD + 120 Days	NWDD + 150 Days
Conduct statistical analysis of Phase II Results	NWDD + 150	NWDD + 180 Days

Beyond this point, far too many variables regarding sampling results and statistical analysis come into play to even attempt to project a valid future schedule.

**Findings of Fact 2.c.i-ii - Permit Sections C.2.i.(1):** Monongahela Power caused a statistically significant increase over the groundwater standards for arsenic, failed to create an operating record within fourteen (14) days indicating that arsenic had shown a statistically significant change above groundwater standards, and failed to notify WVDEP of such.

**Plan**

MP reports all groundwater analytical data via the electronic Discharge Monitoring Report (eDMR) module within the WVDEP Electronic Submittal System (ESS). The eDMR table shows a value of one (1) exceedance for each reported parameter value greater than the applicable standard. Any permit level exceedances are also identified by a notation in the comments attached to each eDMR submittal package. MP contends that the eDMR reports constitute the operating record for all groundwater monitoring results and that no further action regarding creating an operating record is necessary when parameters exceed permit limits.

**Schedule**

If results at a statistically significant level above permit limits for any parameter are confirmed by re-sampling, MP will provide written notification to the Director of the Waste Permitting Section, WVDEP Division of Water and Waste Management via certified letter within 14 days of result availability.

**Findings of Fact 2.c.iii - Permit Sections C.2.i.(4):** Monongahela Power failed to initiate an assessment of corrective measures within ninety (90) days after repeat sampling confirmed a statistically significant increase above groundwater standards for arsenic.

**Plan**

As described in an e-mail to the environmental inspector on May 15, 2019 (see Attachment 2), the assessment of corrective measures (ACM) process has already been initiated to address the arsenic permit limit exceedances in MW-106. Although initiated, the ACM process cannot be completed until the nature and extend of the arsenic impacts are characterized in accordance with 33CSR1 §4.11.c.7. To that end, MP submitted a Groundwater Assessment Plan (GWAP) for Department review and approval during our Dec 10, 2019 meeting. Groundwater assessment field activities can begin upon GWAP approval.

After the field investigation activities are completed, a Groundwater Assessment Report will be prepared and submitted to the Department. The report will provide an evaluation of investigation results and recommendations on next steps. If the report concludes that no additional site characterization efforts are necessary, MP will then prepare and submit an ACM Report. Otherwise, additional field investigation activities will be performed as necessary to fully delineate the extent of the arsenic release. Once the ACM Report is approved by the Department, work can begin on the Selection of Remedy Report.

The following schedule lists the significant milestones required to comply with the Corrective Action process described in the Solid Waste Management Rule at 33CSR1 §4.11.e. WVDEP will be notified in writing of any schedule changes necessitated by site conditions, investigation results, or additional data requirements. The actual groundwater field investigation start date is also dependent on driller availability.



**Schedule**

Note: Assumes GWAP approval is received by April 1, 2020 and subsequent required Department reviews and approvals are performed in a timely manner.

<u>Milestone</u>	<u>Begin</u>	<u>End</u>
Groundwater Assessment Plan (GWAP) Prep	6/1/2019	10/31/2019
GWAP Department Review and Approval	12/10/2019	4/1/2020
Groundwater Field Investigation	5/1/2020	5/30/2020
GW Assessment Report Prep & Lab Analysis	6/1/2020	6/31/2020
GW Assessment Report Dept Review/Approval	7/1/2020	7/31/2020
ACM Report Preparation	8/1/2020	8/31/2020
ACM Report Dept Review/Approval	9/1/2020	9/30/2020
Selection of Remedy (SoR) Report Preparation	10/1/2020	11/30/2020
SoR Report Department Review & Approval	12/1/2020	12/31/2020
33SCR1 §4.11.f.4 Remedy Implementation Sched	1/1/2021	1/31/2021

**Findings of Fact 2.c.iv - Permit Sections C.2.i.(7):** Monongahela Power failed to implement a corrective action program for arsenic based on the schedule required by WV Legislative Rule 33CSR1, Sections 4.11.f.4 and 4.11.g.

**Plan**

A schedule for initiating and completing remedial activities will be prepared after the remedy is selected and the Selection of Remedy Report is approved by WVDEP. The preceding corrective action steps must be completed before a remedy implementation schedule can be prepared.

**Schedule**

See schedule above.

**Findings of Fact 2.d - Section C.3.b.(2) and C.11 Annual Water Jet Cleanouts** – Monongahela Power failed to perform 2016 and 2017 annual water jet cleanouts of the “leachate detection system” lines underlying the surface impoundment and failed to include on its 2016 and 2017 Annual Reports.

**Plan**

As previously communicated, although Permit Condition C.11 identifies the lines under the Rivesville surface impoundment as Leachate Detection, that is not technically correct as true leachate detection only exists beneath the lower liner of a double liner system. The branched line beneath Rivesville’s surface impoundment is more correctly identified as an underdrain. Unlike the significant solids content frequently encountered during the flushing of the leachate collection lines at other landfills, high pressure flushing of this line beneath Rivesville’s surface impoundment on May 29, 2019 produced nothing more than a lot of essentially clear water. It is for this reason that Assistant Director Patel was requested, by email dated September 3, 2019, to reduce the water jetting requirement contained within the renewal permit of this closed landfill to no more frequently than once per permit cycle. Documentation and video of the clarity of this

flushing continue to be available upon request. Rivesville's SW/NPDES Permit WV0050776 is currently administratively extended. A copy of this Corrective Action Plan is also being loaded to the renewal application within the ESS with the explicit request that its contents be considered as the draft SW/NPDES renewal is prepared

### Schedule

In addition to having requested and continuing to request that the frequency of flushing of the line misidentified within the permit as "leachate detection system" but more accurately the "underdrain" underlying the surface impoundment, MP will have this line water jetted during each April or May until such time as the requirement is reduced or eliminated from the facility's permit. Each jetting shall be noted within the facility's Annual Operations Report.

### Additional Requests at Permit Renewal

As a result of the May 14, 2019 inspection, subsequent documents and discussions, MP was advised to ensure that certain items were more clearly defined within the upcoming renewal of Permit WV0050776. To that end, the following items are listed here and, as part of this submittal, are also being loaded to the permit renewal application currently within Electronic Submission System:

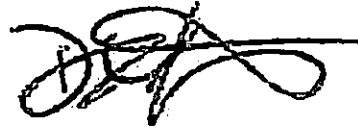
**LM1** It was stated that MP is not authorized to collect Leachate Monitoring Point 1 from the point where it is currently sampled. MP responded to that statement as follows: "...In a follow up email from Mr. Cannon on May 17, 2019, it was determined that the permittee is currently sampling for LM1 at the leachate detection sump by removing the grate and not at the 4" PVC pipe that discharges into the Sedimentation Pond No. 1. This change in the sampling location was determined due to the combination of physical and safety reasons because when the sump is operating, the flow of the discharge is too powerful to sample with a dipper. The sample is representative in the leachate detection sump of what would be discharged from LM1. The current sampling location is not permitted in the permit and the permittee would need to modify the permit to reflect this sampling location for LM1."

Response: The permit renewal application submitted via the Electronic Submission System (ESS) on August 14, 2019 contains the following comment: "Monitoring Point LM1 was the discharge from the detection system beneath the landfill's sedimentation basin. Originally LM1 was located immediately adjacent to Outlet 006 and flowed independently to the head of the unnamed tributary of the Monongahela River which arguably begins with the sedimentation pond's 006 discharge. The piping for LM1 was subsequently redirected incorporating it into the Outlet 006 discharge pipe's flow. Later, as proposed and subject of Permit Modification No. 1 issued by letter dated July 5, 2011, this discharge was separated and rerouted to a dedicated sump. This sump in turn discharges back into the head of the sedimentation basin. As such, LM1 ceased to exist but Modification No. 1 did not formally remove it from the permit, so for the remainder of that permit cycle, LM1 was reported as no flow. The permit effective April 1, 2015 relocated LM1 to the "discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018." For practical reasons LM1 is now sampled from the pipe influent to the sump as the pipe discharging from the sump back up and into the sedimentation pond cannot be sampled safely or effectively, nor is there any reasonable fix for that. Moreover, there is no discernable difference in water quality between these points.

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
May 28, 2020  
Page 8

Should you have any further questions regarding these matters please contact William Cannon at (724) 838-6018 or [wcannon@firstenergycorp.com](mailto:wcannon@firstenergycorp.com).

Sincerely,



Douglas S. Hartman  
Manager,  
Governance, Permitting &  
Environmental Services

Enclosures

C: (email) Jason Ely - WVDEP, Fairmont  
Tonia Mather - WVDEP, Fairmont  
Yogesh Patel - WVDEP, Charleston  
Brad Wright - WVDEP, Charleston

July 9, 2019  
10:59:51 AM

Rivesville

**Solid Waste NPDES Permit WV0050776 - Interwell Statistical Evaluation**

Background Date Range: 01/01/2003 to 03/31/2019  
Background Locations: MW101

Number of Future Observations: 20.00

Compliance Date Range: 10/01/2018 to 03/31/2019  
Compliance Locations: MW106

Comparison Method if all Background Results are Non-Detect:

Statistical Test for Parametric Background Data Distributions:  
Statistical Test for Cases with High Percentage of Non-Detect Background Data:  
Statistical Test for Cases with High Percentage of Non-Detect Background Data:  
Statistical Test for Non-Parametric Background Data Distributions:

STmdl = Last MDL  
STpar = Parametric Prediction Interval on Background  
STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)  
STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)  
STnon = Non-Parametric Prediction Interval on Background

Background Comparison:

Number of Verification Samples:  
Default Type 1 Individual Comparison Error Level  
(False Positive Rate) for tests other than Prediction Interval

Interwell  
1  
0.01

Type 1 Individual Comparison Error Level  
(False Positive Rate) for Prediction Interval

Calculate prediction interval using an error-level of 0.01, based on the approach of USEPA (1992)

Non-Detect Processing (Parametric Tests):

<=55% using MDL \* 1.0  
>55% using MDL \* 1.0

Non-Detect Processing (All Other):

<=55% using MDL \* 1.0  
>55% using MDL \* 1.0

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non Detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance Trend
MAV106	Aluminum, dissolved, ug/L	11/07/2018	17	17.63	Yes/Yes	STpar	99.00	82.687	<2.600	No	No
MAV106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STpar	99.00	3.04476	<0.00018	No	No
MAV106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000	49.21700	Yes	Yes
MAV106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STpar	99.00	108.567	0.054	No	No
MAV106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045	<0.000	No	No
MAV106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	SThon	99.42	13,100.000	11,564.000	No	No
MAV106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000	0.00021	No	No
MAV106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STpar	99.00	3.013	1.591	No	No
MAV106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STpar	99.00	3,163.600	5,690.000	Yes	Yes
MAV106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STmdl	N/A	0.00052	<0.00052	No	No
MAV106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000	2,150.000	No	No
MAV106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200	<0.040	No	No
MAV106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300	<2.000	No	No
MAV106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	SThon	99.42	59.80000	<0.00110	No	No
MAV106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	225.392	902.000	Yes	Yes
MAV106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000	<0.0002	No	No

MANAGERS

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence -- Level ---	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW106	Total Dissolved Solids, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	804.605		2,180.000	Yes	
MW106	Zinc, dissolved, ug/L	11/07/2018	17	11.76	Yes/Yes	STpar	99.00	32.460		3.536	No	

MANAGES

Rivesville

Solid Waste NPDES permit WV0050776 - Intrawell Statistical Evaluation

Background Date Range: 01/01/2003 to 03/31/2019  
Background Locations: MW101

Number of Future Observations: 18.00

Compliance Date Range: 10/01/2018 to 03/31/2019  
Compliance Locations: MW106

Comparison Method if all Background Results are Non-Detect:

- Statistical Test for Parametric Background Data Distributions:
- Statistical Test for Cases with High Percentage of Non-Detect Background Data:
- Statistical Test for Cases with High Percentage of Non-Detect Background Data:
- Statistical Test for Non-Parametric Background Data Distributions:

- STmdl = Last MDL
- STpar = Parametric Prediction Interval on Background
- STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)
- STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)
- STnon = Non-Parametric Prediction Interval on Background

Background Comparison:

Number of Verification Samples:  
Default Type 1 Individual Comparison Error Level  
(False Positive Rate) for tests other than Prediction Interval

Interwell  
1  
0.01

Type 1 Individual Comparison Error Level  
(False Positive Rate) for Prediction Interval

Calculate prediction interval using an error-level of 0.01, based on the approach of USEPA (1992)

Non-Detect Processing (Parametric Tests):

- <=55% using MDL \* 1.0
- >55% using MDL \* 1.0

Non-Detect Processing (All Other):

- <=55% using MDL \* 1.0
- >55% using MDL \* 1.0

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent Of Non detect.	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance Trend
MW106	Aluminum, dissolved, ug/L	11/07/2018	17	17.63	Yes/Yes	STpar	99.00	82.687		<2.600	No
MW106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STpar	99.00	3.04476		<0.00018	No
MW106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000		49.21700	Yes
MW106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STpar	99.00	108.567		0.054	No
MW106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045		<0.000	No
MW106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	STnan	99.42	13,100.000		11,564.000	No
MW106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000		0.00021	No
MW106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STpar	99.00	3.013		1.591	No
MW106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STpar	99.00	3,163.600		5,690.000	Yes
MW106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STmdl	N/A	0.00052		<0.00052	No
MW106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000		2,150.000	No
MW106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200		<0.040	No
MW106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300		<2.000	No
MW106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	STnan	99.42	59.80000		<0.00110	No
MW106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	225.392		902.000	Yes
MW106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000		<0.0002	No

MANAGES



**From:** Newbaker IV, Edward J  
**Sent:** Wednesday, May 15, 2019 1:03 PM  
**To:** Cody A. Howdyshell (cody.a.howdyshell@wv.gov)  
**Cc:** Shipman, Michael J; Cannon, William E; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov)  
**Subject:** RE: Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items  
**Attachments:** Riv MW106 As Resample Results.pdf

Cody,

As requested during our conf call yesterday, please find attached re-sampling results for Rivesville LF MW-106 confirming that arsenic levels exceed the permit limit of 10 ug/l. As a result, a groundwater assessment will be performed to determine the cause and extent of arsenic impacts and an assessment of corrective measures will be initiated in accordance with 33CSR1 §4.11.e, as appropriate.

Also, in response to your question concerning statistical analysis, interwell and intrawell prediction interval methods are used at Rivesville.

Please let me know if you need any additional info or if you have any other questions.

Thanks,

Jay Newbaker, P.G. | Senior Scientist  
Office: 724-838-8574 | Cell: 724-205-8743  
E-Mail: enewbaker\_iv@firstenergycorp.com

**FirstEnergy**

Environmental Department | Room A-301  
800 Cabin Hill Drive | Greensburg, PA 15601

**From:** Cannon, William E  
**Sent:** Wednesday, May 15, 2019 9:32 AM  
**To:** Cody A. Howdyshell (cody.a.howdyshell@wv.gov) <cody.a.howdyshell@wv.gov>; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov) <jason.m.ely@wv.gov>  
**Cc:** Shipman, Michael J <mshipman@firstenergycorp.com>; Newbaker IV, Edward J <enewbaker\_iv@firstenergycorp.com>  
**Subject:** Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items

Cody,

Attached, in accordance with requests made during your May 14, 2019 inspection of the Rivesville Power Station Closed CCB Landfill, please find two files, these being of completed Landfill Inspection Forms and Facility Maintenance Logs. As discussed, these files contain a representative sampling of each completed form from each of the last three years.

As to the other discussed items, we are currently assembling and verifying relevant information which we anticipate supplying in response to your inspection report.

William E. Cannon

**FirstEnergy**

2924087

VOID IF NOT CASHED WITHIN 90 DAYS

50-937

213

Check No. 2924087

CHECK DATE

AMOUNT

02 21 2020

\*\*\*\*\*21,030.00

PAY TO THE ORDER OF WEST VIRGINIA DEP DIVISION OF WATER & WASTE MGMT 601 57TH STREET SE CHARLESTON, WV 25304

EXACTLY \*\*\*\*\*21,030 DOLLARS 00 CENTS

*Stuart R. Steub*  
Treasurer  
FirstEnergy Corp.

Morgan Chase Bank, Syracuse, NY 13206

⑈ 2924087⑈ ⑆ 021309379⑆ 601864788⑈

REC'D NO. 0210014251 DOC NO. 2000055344

PO NO	INVOICE / RCPT #	DATE	DOCUMENT #	VENDOR INV AMT	DISCOUNT	NET AMOUNT
	ORDER NO. 9032	02/18/2020	1902000220	21,030.00	0.00	21,030.00

Rivesville Consent Order Fee - Order No. 9032

OR CHECK INQUIRY, CONTACT FIRSTENERGY ACCOUNTS SUPPORT AT AFWHELP@FIRSTENERGYCORP.COM.

**EMAIL and USPS MAIL**

May 15, 2020

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Average Monthly Total Recoverable Aluminum limit of 0.29 mg/L during April 2020.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on April 10 (Aluminum of 0.3845 mg/L, flow of 15 gpm); April 10 (Aluminum of 0.3125 mg/L, flow of 75 gpm); April 13 (Aluminum of 0.2769 mg/L, flow of 50 gpm); April 22 (Aluminum of 0.4067 mg/L, flow of 20 gpm); April 27 (Aluminum of 0.4684 mg/L, flow of 75 gpm) and April 28, 2020 (Aluminum of 0.4861 mg/L, flow of 50 gpm) resulting in an exceedance of the Average Monthly Total Recoverable Aluminum limit (0.3892 mg/L).

Cause of Noncompliance

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but currently remains uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated, and there is no activity. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation basin's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Previously reported Aluminum exceedances occurred during January, and February 2018 due to unique weather conditions having caused a short-circuiting of flow from the inlet to the discharge structure, this due to a relatively warm and light surface layer crossing the pond's colder and denser under layer. No further exceedances occurred. However, in late November and early December 2019, fully two years after that last exceedance, practical circumstances presented themselves in a way to encourage and facilitate a proactive cleaning of the pond. Approximately 575 tons of accumulated sediments were removed, profiled and disposed of at Waste Management's Meadowfill Landfill. Outlet 006 was thereafter monitored throughout December, the pond recovering to only ¾ full by month's end. By January 7<sup>th</sup>, Outlet 006 had resumed discharging. Sampling during January, February and March produced Maximum Daily and Average Monthly exceedances as previously reported by letters dated February 4, 2020, March 12, 2020 and April 14, 2020. During April 2020, the subject of this letter, the Average Monthly exceedance continued.

Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
May 15, 2020  
Page 2

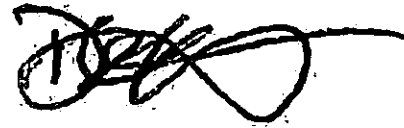
Acting upon the theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, in its Corrective Action Plan to address Compliance Order 9032, submitted March 16, 2020 proposed installing a turbidity boom/curtain across the pond's width at a point roughly bisecting the basin. That turbidity curtain was installed on March 24, 2020. Aluminum values generally declined during April 2020.

Length of Noncompliance

Uncertain. Following the basin cleaning, flow resumed by January 7, 2020. The events reported by this letter occurred during April 2020.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Douglas S. Hartman, Manager  
Governance, Permitting and  
Environmental Services

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Christina Facemyer - WVDEP Charleston

Dear Brittany Hunt:

9032 Monongahela  
Denied POA

The following is in response to your request for proof of delivery on your item with the tracking number:  
**9489 0090 0027 6201 5523 13.**

**Item Details**

**Status:** Delivered, Left with Individual  
**Status Date / Time:** May 14, 2020, 10:19 am  
**Location:** GREENSBURG, PA 15601  
**Postal Product:** First-Class Mail®  
**Extra Services:** Certified Mail™  
Return Receipt Electronic

**Shipment Details**

**Weight:** 5lb, 15.2oz

**Recipient Signature**

<b>Signature of Recipient:</b>	<i>Ad-C. 5/14</i> <i>CO-19</i>
<b>Address of Recipient:</b>	<i>800 Caban Hunt</i>

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,  
United States Postal Service®  
475 L'Enfant Plaza SW  
Washington, D.C. 20260-0004



west.virginia.department of environmental protection

Environmental Enforcement  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Telephone: (304) 926-0470 Fax: (304) 926-0452

Austin Cuperton, Cabinet Secretary  
dep.wv.gov

May 7, 2020

Monongahela Power Company  
ATTN: Raymond Evans  
800 Cabin Hill Dr.  
Greensburg, PA 15601-1689

**CERTIFIED RETURN RECEIPT REQUESTED**  
9489 0090 0027 6204 5523 13

Re: Plan of Corrective Action

Dear Mr. Evans:

West Virginia Department of Environmental Protection (WVDEP) has received your Plan of Corrective Action (POCA), dated March 16, 2020, as required by Item No. Two (2) under the Order for Compliance section of Order No. 9032.

WVDEP has determined the enclosed POCA is not acceptable and has not been approved because of the deficiency noted below:

- The POCA does not include a schedule for Phase II sampling and requirements, should a waiver from WVDEP DWWM Permitting not be granted. Any request for a variance from Phase II requirements shall be submitted to WVDEP DWWM Permitting for approval.

Within ten (10) days of receipt of this correspondence, Monongahela Power Company shall submit a revised POCA that addresses the aforementioned deficiency. Failure to submit an approvable POCA is a violation of the Order. The POCA shall be submitted to:

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
WVDEP  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Promoting a healthy environment.



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west virginia department of environmental protection

---

Environmental Enforcement  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Telephone: (304) 926-0470 Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
dep.wv.gov

May 7, 2020

Monongahela Power Company  
ATTN: Raymond Evans  
800 Cabin Hill Dr.  
Greensburg, PA 15601-1689

**CERTIFIED RETURN RECEIPT REQUESTED**  
9489 0090 0027 6201 5523 13

---

Re: Plan of Corrective Action

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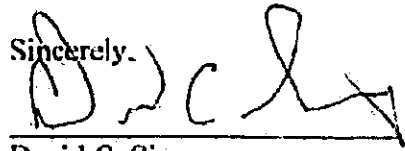
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**Chief Inspector**  
**Environmental Enforcement - Mail Code #031328**  
**WVDEP**  
**601 57<sup>th</sup> Street SE**  
**Charleston, WV 25304**

Promoting a healthy environment.

Should you have any questions regarding this matter, please contact me at (304) 926-0470.

Sincerely,



---

David C. Simmons  
Assistant Chief Inspector

**Enclosure**

cc: **Jeremy W. Bandy, Chief Inspector, EE (via e-mail)**  
**Brad Wright, Assistant Chief Inspector, EE/WW (via e-mail)**  
**Laura McGee, Environmental Resources Program Manager, EE (via e-mail)**  
**Tammy Potter, Environmental Resources Specialist, EE (via e-mail)**  
**Tonya Mather, Environmental Inspector Supervisor, EE/WW (via e-mail)**  
**Jason Ely, Environmental Inspector Specialist, EE/WW (via e-mail)**  
**Shyrel Moellendick, MSSS, EE (via e-mail)**



**FEDERAL EXPRESS**

March 16, 2020

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
WV Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
NPDES Permit No. WV0050776  
Compliance Order 9032  
Administrative Penalty Payment, Proposed Plan of Corrective Action, and Schedule**

Dear Chief Inspector:

**Payment**

Enclosed please find FirstEnergy Check Number 2924087, dated February 21, 2020 in the amount of \$21,030.00 as payment in full for the Administrative Penalty associated with Compliance Order 9032.

**Plan**

**Findings of Fact 2.a - Section A.006 Discharge Limitations** – Outlet 006 exceeded its Total Aluminum limitations during January and February 2018, these being cited in the Consent Order.

Monongahela Power (MP) has explained its theory of these exceedances being due to the gentle inflow of relatively warm leachate atop a highly stratified sedimentation pond, thus causing the relatively warm and thin surface layer to essentially “short-circuit” the mixing and precipitation process, travelling across the fetch of the sedimentation pond to the outlet structure. At the time of our December 10<sup>th</sup> conference at your Charleston Headquarters, we were able to state that no further exceedances had occurred. Since that time, exceedances have occurred during both January and February 2020. MP proposes the following Corrective Action: At minimum the water level in the pond is approximately seven feet deep. At normal high level the water is approximately 10.5 feet deep. A Type I Turbidity Curtain barrier with a curtain depth of three feet is being installed across the width of the sedimentation pond and will remain in place year-round. It is envisioned that during highly stratified conditions the relatively warm leachate inflow will back up behind this curtain, cool, drop, mix, and precipitation of the aluminum (and other constituents) will increase as this now-mixed flow travels under the curtain on its way toward the outflow structure. There is minimal concern regarding uneven solids buildup as the site is now closed and fully vegetated.

**Schedule**

The design has been finalized, suppliers contacted, and permanent installation is anticipated during the spring of 2020.

Chief Inspector  
 Environmental Enforcement - Mail Code #031328  
 March 16, 2020  
 Page 2

**Findings of Fact 2.b.i. - Permit Section C.2.h(1):** Monongahela Power failed to create an operating record within fourteen (14) days after documenting a statistically significant change from background arsenic levels and failed to notify WVDEP of such.

**Plan**

MP reports statistically significant increases (SSIs) above background levels for arsenic by providing the statistical analysis report as an attachment to the electronic discharge monitoring report (eDMR) package submitted within WVDEP's Electronic Submittal System (ESS). This report, an example of which is provided as Attachment 1, clearly identifies what parameters exhibit a statistically significant increase over background levels. MP contends that the eDMR submittal packages constitute the operating record for all groundwater monitoring results.

If results at a statistically significant level above permit limits for any parameter are confirmed by re-sampling, MP will provide written notification to the Director of the Waste Permitting Section, WVDEP Division of Water and Waste Management via certified letter within 14 days of result availability. This notification will be in addition to the eDMR report referenced above.

Because the Rivesville Power Station closed in 2012 and is unmanned, it is impractical to maintain an operating record at the station itself. MP therefore requests that WVDEP approve an alternate location for maintaining the operating record, as is allowable under 33CSR1 §4.4. That alternate location is FirstEnergy's corporate offices at 800 Cabin Hill Drive, Rm A-301, Greensburg, PA 15601 where all site related records and files for the Rivesville station and landfill required by 33CSR1 §4.4 are currently maintained.

**Schedule**

MP will continue to report SSIs above background levels on a biannual basis via the eDMR portion of the WVDEP ESS.

**Findings of Fact 2.b.ii - Permit Section C.2.h.(4):** Monongahela Power failed to establish and implement a Phase II assessment monitoring program after repeat sampling confirmed that a statistically significant increase over background arsenic levels had occurred.

**Plan**

A Phase II monitoring program entails analyzing groundwater samples for the organic parameters listed in Appendix II of the Solid Waste Management Rule, unless waived by the Secretary upon request of the permittee in accordance with 33 CSR1 §4.11.c.2. MP requests that WVDEP waive the Phase II monitoring program requirements because organic parameters are not constituents of concern at coal combustion residuals (CCR) landfills. Additionally, by loading a copy of this Corrective Action Plan submittal to the SW/NPDES permit WV0050776 renewal application currently within the WVDEP ESS, MP formally requests that WVDEP incorporate this waiver into Rivesville's upcoming draft renewal permit.

33CSR1 §4.11.c.2.E allows the Secretary to delete any of the Phase II monitoring parameters for a SWLF if it can be shown that the removed constituents are not reasonably expected to be in or derived from the waste

contained in the SWLF. Two separate large-scale studies have conclusively determined that organic constituents are not found in CCR wastes because they are consumed during the combustion process when generating power.

**Specifically, EPA's Report to Congress: Wastes from the Combustion of Fossil Fuels: Volume 2 – Methods, Findings, and Recommendations, found that the concentration of all organic parameters in both CCR and CCR leachate were at or below analytical detection limits. As a result, EPA concluded that organics are not risk drivers at coal ash landfills and does not require analysis for organics in groundwater or leachate under the CCR Rule (40 CFR 257).**

**In addition, the Electric Power Research Institute (EPRI) analyzed coal ash disposal site leachate for over 200 VOCs and SVOCs in its report entitled *Coal Combustion Residuals Leachate Management, Characterization of Leachate Quality, Final Report 3002007125 (EPRI December 2016)*. No organic compounds were detected in any of the individual leachate samples from 75 sites.**

**Schedule**

**Not applicable if Phase II monitoring requirements are waived.**

**Findings of Fact 2.c.i-ii - Permit Sections C.2.1(1): Monongahela Power caused a statistically significant increase over the groundwater standards for arsenic, failed to create an operating record within fourteen (14) days indicating that arsenic had shown a statistically significant change above groundwater standards, and failed to notify WVDEP of such.**

**Plan**

**MP reports all groundwater analytical data via the electronic Discharge Monitoring Report (eDMR) module within the WVDEP Electronic Submittal System (ESS). The eDMR table shows a value of one (1) exceedance for each reported parameter value greater than the applicable standard. Any permit level exceedances are also identified by a notation in the comments attached to each eDMR submittal package. MP contends that the eDMR reports constitute the operating record for all groundwater monitoring results and that no further action regarding creating an operating record is necessary when parameters exceed permit limits.**

**Schedule**

**If results at a statistically significant level above permit limits for any parameter are confirmed by re-sampling, MP will provide written notification to the Director of the Waste Permitting Section, WVDEP Division of Water and Waste Management via certified letter within 14 days of result availability.**

**Findings of Fact 2.c.iii - Permit Sections C.2.1(4): Monongahela Power failed to initiate an assessment of corrective measures within ninety (90) days after repeat sampling confirmed a statistically significant increase above groundwater standards for arsenic.**

**Plan**

**As described in an e-mail to the environmental inspector on May 15, 2019 (see Attachment 2), the assessment of corrective measures (ACM) process has already been initiated to address the arsenic permit**

Chief Inspector  
 Environmental Enforcement - Mail Code #031328  
 March 16, 2020  
 Page 4

limit exceedances in MW-106. Although initiated, the ACM process cannot be completed until the nature and extent of the arsenic impacts are characterized in accordance with 33CSR1 §4.11.c.7. To that end, MP submitted a Groundwater Assessment Plan (GWAP) for Department review and approval during our Dec 10, 2019 meeting. Groundwater assessment field activities can begin upon GWAP approval.

After the field investigation activities are completed, a Groundwater Assessment Report will be prepared and submitted to the Department. The report will provide an evaluation of investigation results and recommendations on next steps. If the report concludes that no additional site characterization efforts are necessary, MP will then prepare and submit an ACM Report. Otherwise, additional field investigation activities will be performed as necessary to fully delineate the extent of the arsenic release. Once the ACM Report is approved by the Department, work can begin on the Selection of Remedy Report.

The following schedule lists the significant milestones required to comply with the Corrective Action process described in the Solid Waste Management Rule at 33CSR1 §4.11.e. WVDEP will be notified in writing of any schedule changes necessitated by site conditions, investigation results, or additional data requirements. The actual groundwater field investigation start date is also dependent on driller availability.

#### Schedule

Note: Assumes GWAP approval is received by April 1, 2020 and subsequent required Department reviews and approvals are performed in a timely manner.

<u>Milestone</u>	<u>Begin</u>	<u>End</u>
Groundwater Assessment Plan (GWAP) Prep	6/1/2019	10/31/2019
GWAP Department Review and Approval	12/10/2019	4/1/2020
Groundwater Field Investigation	5/1/2020	5/30/2020
GW Assessment Report Prep & Lab Analysis	6/1/2020	6/31/2020
GW Assessment Report Dept Review/Approval	7/1/2020	7/31/2020
ACM Report Preparation	8/1/2020	8/31/2020
ACM Report Dept Review/Approval	9/1/2020	9/30/2020
Selection of Remedy (SoR) Report Preparation	10/1/2020	11/30/2020
SoR Report Department Review & Approval	12/1/2020	12/31/2020
33SCR1 §4.11.f.4 Remedy Implementation Sched	1/1/2021	1/31/2021

Findings of Fact 2.c.iv - Permit Sections C.2.1.(7): Monongahela Power failed to implement a corrective action program for arsenic based on the schedule required by WV Legislative Rule 33CSR1, Sections 4.11.f.4 and 4.11.g.

#### Plan

A schedule for initiating and completing remedial activities will be prepared after the remedy is selected and the Selection of Remedy Report is approved by WVDEP. The preceding corrective action steps must be completed before a remedy implementation schedule can be prepared.

Schedule

See schedule above.

**Findings of Fact 2.d - Section C.3.b.(2) and C.11 Annual Water Jet Cleanouts** – Monongahela Power failed to perform 2016 and 2017 annual water jet cleanouts of the “leachate detection system” lines underlying the surface impoundment and failed to include on its 2016 and 2017 Annual Reports.

Plan

As previously communicated, although Permit Condition C.11 identifies the lines under the Rivesville surface impoundment as Leachate Detection, that is not technically correct as true leachate detection only exists beneath the lower liner of a double liner system. The branched line beneath Rivesville’s surface impoundment is more correctly identified as an underdrain. Unlike the significant solids content frequently encountered during the flushing of the leachate collection lines at other landfills, high pressure flushing of this line beneath Rivesville’s surface impoundment on May 29, 2019 produced nothing more than a lot of essentially clear water. It is for this reason that Assistant Director Patel was requested, by email dated September 3, 2019, to reduce the water jetting requirement contained within the renewal permit of this closed landfill to no more frequently than once per permit cycle. Documentation and video of the clarity of this flushing continue to be available upon request. Rivesville’s SW/NPDES Permit WV0050776 is currently administratively extended. A copy of this Corrective Action Plan is also being loaded to the renewal application within the ESS with the explicit request that its contents be considered as the draft SW/NPDES renewal is prepared

Schedule

In addition to having requested and continuing to request that the frequency of flushing of the line misidentified within the permit as “leachate detection system” but more accurately the “underdrain” underlying the surface impoundment, MP will have this line water jetted during each April or May until such time as the requirement is reduced or eliminated from the facility’s permit. Each jetting shall be noted within the facility’s Annual Operations Report.

Additional Requests at Permit Renewal

As a result of the May 14, 2019 inspection, subsequent documents and discussions, MP was advised to ensure that certain items were more clearly defined within the upcoming renewal of Permit WV0050776. To that end, the following items are listed here and, as part of this submittal, are also being loaded to the permit renewal application currently within Electronic Submission System:

**LMI** It was stated that MP is not authorized to collect Leachate Monitoring Point 1 from the point where it is currently sampled. MP responded to that statement as follows: “...In a follow up email from Mr. Cannon on May 17, 2019, it was determined that the permittee is currently sampling for LMI at the leachate detection sump by removing the grate and not at the 4” PVC pipe that discharges into the Sedimentation Pond No. 1. This change in the sampling location was determined due to the combination of physical and safety reasons because when the sump is operating, the flow of the discharge is too powerful to sample with

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
March 16, 2020  
Page 6

a dipper. The sample is representative in the leachate detection sump of what would be discharged from LM1. The current sampling location is not permitted in the permit and the permittee would need to modify the permit to reflect this sampling location for LM1."

Response: The permit renewal application submitted via the Electronic Submission System (ESS) on August 14, 2019 contains the following comment: "Monitoring Point LM1 was the discharge from the detection system beneath the landfill's sedimentation basin. Originally LM1 was located immediately adjacent to Outlet 006 and flowed independently to the head of the unnamed tributary of the Monongahela River which arguably begins with the sedimentation pond's 006 discharge. The piping for LM1 was subsequently redirected incorporating it into the Outlet 006 discharge pipe's flow. Later, as proposed and subject of Permit Modification No. 1 issued by letter dated July 5, 2011, this discharge was separated and rerouted to a dedicated sump. This sump in turn discharges back into the head of the sedimentation basin. As such, LM1 ceased to exist but Modification No. 1 did not formally remove it from the permit, so for the remainder of that permit cycle, LM1 was reported as no flow. The permit effective April 1, 2015 relocated LM1 to the "discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018." For practical reasons LM1 is now sampled from the pipe influent to the sump as the pipe discharging from the sump back up and into the sedimentation pond cannot be sampled safely or effectively, nor is there any reasonable fix for that. Moreover, there is no discernable difference in water quality between these points.

Should you have any further questions regarding these matters please contact William Cannon at (724) 838-6018 or [wcannon@firstenergycorp.com](mailto:wcannon@firstenergycorp.com).

Sincerely,



Douglas S. Hartman  
Manager,  
Governance, Permitting &  
Environmental Services

Enclosures

c: Jason Ely - WVDEP, Fairmont  
Yogesh Patel - WVDEP, Charleston  
Brad Wright - WVDEP, Charleston

July 9, 2019  
10:59:51 AM

Rivesville

**Solid Waste NPDES Permit WV0050776 - Interwell Statistical Evaluation**

Background Date Range: 01/01/2003 to 03/31/2019  
Background Locations: MW101

Number of Future Observations: 20.00

Compliance Date Range: 10/01/2018 to 03/31/2019  
Compliance Locations: MW106

Comparison Method if all Background Results are Non-Detect:

Statistical Test for Parametric Background Data Distributions:

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

Statistical Test for Non-Parametric Background Data Distributions:

STmdl = Last MDL

STpar = Parametric Prediction Interval on Background

STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

STnon = Non-Parametric Prediction Interval on Background

Background Comparison:

Number of Verification Samples:

Default Type 1 Individual Comparison Error Level

(False Positive Rate) for tests other than Prediction Interval

Type 1 Individual Comparison Error Level

(False Positive Rate) for Prediction Interval

Interwell

1

0.01

Calculate prediction interval using an error-level of 0.01, based on the approach of USEPA (1992)

Non-Detect Processing (Parametric Tests):

≤55% using MDL \* 1.0

>55% using MDL \* 1.0

Non-Detect Processing (All Other):

≤55% using MDL \* 1.0

>55% using MDL \* 1.0

Compliance Location	Parameter	Sample Date	Count of/By Results	Percent of/Non detect	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analyte Result	Exceedance	Trend
MAW106	Aluminum, dissolved, ug/L	11/07/2018	17	17.65	Yes/Yes	STper	99.00	82.687		<2.600	No	
MAW106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STper	99.00	3.04476		<0.00018	No	
MAW106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000		49.21700	Yes	
MAW106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STper	99.00	108.567		0.054	No	
MAW106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045		<0.000	No	
MAW106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	STlow	99.42	13,100.000		11,564.000	No	
MAW106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000		0.00021	No	
MAW106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STper	99.00	3.013		1.591	No	
MAW106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STper	99.00	3,163.600		5,690.000	Yes	
MAW106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STradl	N/A	0.00052		<0.00052	No	
MAW106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000		2,150.000	No	
MAW106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200		<0.040	No	
MAW106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300		<2.000	No	
MAW106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	STlow	99.42	59.80000		<0.00110	No	
MAW106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STper	99.00	225.392		902.000	Yes	
MAW106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000		<0.0002	No	

MANAGERS



Compliance Location	Parameter	Sample Date	Count Of Blg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW106	Total Dissolved Solids, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	804.605		2,180.000	Yes	
MW106	Zinc, dissolved, ug/L	11/07/2018	17	11.76	Yes/Yes	STpar	99.00	32.460		3.536	No	

491

July 9, 2019  
11:00:55 AM

Riversville

**Solid Waste NPDES permit WV0050776 - Intrawell Statistical Evaluation**

**Background Date Range: 01/01/2003 to 03/31/2019**  
**Background Locations: MW101**

**Number of Future Observations: 18.00**

**Compliance Date Range: 10/01/2018 to 03/31/2019**  
**Compliance Locations: MW106**

**Comparison Method if all Background Results are Non-Detect:**

**Statistical Test for Parametric Background Data Distributions:**  
**Statistical Test for Cases with High Percentage of Non-Detect Background Data:**  
**Statistical Test for Cases with High Percentage of Non-Detect Background Data:**  
**Statistical Test for Non-Parametric Background Data Distributions:**

**STmdl = Last MDL**  
**STpar = Parametric Prediction Interval on Background**  
**STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)**  
**STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)**  
**STnon = Non-Parametric Prediction Interval on Background**

**Background Comparison:**

**Number of Verification Samples:**  
**Default Type 1 Individual Comparison Error Level**  
**(False Positive Rate) for tests other than Prediction Interval**

**Interwell**  
**1**  
**0.01**

**Type 1 Individual Comparison Error Level**  
**(False Positive Rate) for Prediction Interval**

**Calculate prediction interval using an error-level of 0.01, based on the approach of USEPA (1992)**

**Non-Detect Processing (Parametric Tests):**

**<=55% using MDL \* 1.0**  
**>55% using MDL \* 1.0**

**Non-Detect Processing (All Other):**

**<=55% using MDL \* 1.0**  
**>55% using MDL \* 1.0**

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non-detects	Normal/Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW106	Aluminum, dissolved, ug/L	11/07/2018	17	17.65	Yes/Yes	STper	99.00	82.687		<2.600	No	
MW106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STper	99.00	3.04476		<0.00018	No	
MW106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000		49.21700	Yes	
MW106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STper	99.00	108.567		0.054	No	
MW106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045		<0.000	No	
MW106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	STann	99.42	13,100.000		11,564.000	No	
MW106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000		0.00021	No	
MW106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STper	99.00	3.013		1.591	No	
MW106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STper	99.00	3,163.600		5,690.000	Yes	
MW106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STmdl	N/A	0.00052		<0.00052	No	
MW106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000		2,150.000	No	
MW106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200		<0.040	No	
MW106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300		<2.000	No	
MW106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	STann	99.42	59.80000		<0.00110	No	
MW106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STper	99.00	225.392		902.000	Yes	
MW106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000		<0.0002	No	

MANAGES

**From:** Newbaker IV, Edward J  
**Sent:** Wednesday, May 15, 2019 1:03 PM  
**To:** Cody A. Howdysshell (cody.a.howdysshell@wv.gov)  
**Cc:** Shipman, Michael J; Cannon, William E; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov)  
**Subject:** RE: Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items  
**Attachments:** Riv MW106 As Resample Results.pdf

Cody,

As requested during our conf call yesterday, please find attached re-sampling results for Rivesville LF MW-106 confirming that arsenic levels exceed the permit limit of 10 ug/l. As a result, a groundwater assessment will be performed to determine the cause and extent of arsenic impacts and an assessment of corrective measures will be initiated in accordance with 33CSR1 54.11.e, as appropriate.

Also, in response to your question concerning statistical analysis, interwell and intrawell prediction interval methods are used at Rivesville.

Please let me know if you need any additional info or if you have any other questions.

Thanks,

Jay Newbaker, P.G. | Senior Scientist  
Office: 724-838-6574 | Cell: 724-205-6743  
E-Mail: enewbaker\_iv@firstenergycorp.com

**FirstEnergy**

Environmental Department | Room A-301  
800 Cabin Hill Drive | Greensburg, PA 15601

**From:** Cannon, William E  
**Sent:** Wednesday, May 15, 2019 9:32 AM  
**To:** Cody A. Howdysshell (cody.a.howdysshell@wv.gov) <cody.a.howdysshell@wv.gov>; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov) <jason.m.ely@wv.gov>  
**Cc:** Shipman, Michael J <mshipman@firstenergycorp.com>; Newbaker IV, Edward J <enewbaker\_iv@firstenergycorp.com>  
**Subject:** Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items

Cody,

Attached, in accordance with requests made during your May 14, 2019 inspection of the Rivesville Power Station Closed CCB Landfill, please find two files, these being of completed Landfill Inspection Forms and Facility Maintenance Logs. As discussed, these files contain a representative sampling of each completed form from each of the last three years.

As to the other discussed items, we are currently assembling and verifying relevant information which we anticipate supplying in response to your inspection report.

William E. Cannon

**FirstEnergy.**

2924087

VOID IF NOT CASHED WITHIN 90 DAYS

80-997  
213

Check No. 2924087

CHECK DATE

AMOUNT

02 21 2020

\*\*\*\*\*21,030.00

PAY TO THE ORDER OF WEST VIRGINIA DEP  
DIVISION OF WATER & WASTE MGMT  
601 5TH STREET SE  
CHARLESTON, WV 25304

EXACTLY \*\*\*\*\*21,030 DOLLARS 00 CENTS

*Steven R. Stank*  
Treasurer  
FirstEnergy Corp.

Morgan Chase Bank, Syracuse, NY 13206

⑈ 2924087⑈ ⑆021309379⑆ 601864788⑈

ENDOR NO. 0210014251 DOC NO. 2000059344

PO NO	INVOICE / REPT #	DATE	DOCUMENT #	VENDOR INV AMT	DISCOUNT	NET AMOUNT
	ORDER NO. 9032	02/18/2020	1902000220	21,030.00	0.00	21,030.00

Riverville Consent Order Fee - Order No. 9032

OR CHECK INQUIRY, CONTACT FIRSTENERGY ACCOUNTS PAYABLE AT AP@HELPS@FIRSTENERGYCORP.COM.

EMAIL and USPS MAIL

RECEIVED

APR 27 2020

April 14, 2020

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

DWWM-WASTE

RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Maximum Daily and Average Monthly Total Recoverable Aluminum limits of 0.8 and 0.29 mg/L, respectively, during March 2020.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on March 2 (Aluminum of 1.16 mg/L, flow of 10 gpm); March 16 (Aluminum of 0.724 mg/L, flow of 15 gpm); March 26 (Aluminum of 0.619 mg/L, flow of 20 gpm); March 27 (Aluminum of 0.4562 mg/L, flow of 15 gpm); March 30 (Aluminum of 0.4456 mg/L, flow of 15 gpm) and March 31, 2020 (Aluminum of 0.4306 mg/L, flow of 15 gpm) resulting in one exceedance of the Maximum Daily Total Recoverable Aluminum limit (1.1600 mg/L) and one exceedance of the Average Monthly Total Recoverable Aluminum limit (0.639 mg/L).

Cause of Noncompliance

The CCR Site closure was completed during 2014. The cause of these elevated Total Recoverable Aluminum results is suspected but currently remains uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated, and there is no activity. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation basin's discharge structure stop logs were adjusted during 2017 to increase and optimize the pond's retention time. Previously reported Aluminum exceedances occurred during January and February 2018 due to unique weather conditions having caused a short-circuiting of flow from the inlet to the discharge structure, this due to a relatively warm and light surface layer crossing the pond's colder and denser under layer. No further exceedances occurred. However, in late November and early December 2019, fully two years after that last exceedance, practical circumstances presented themselves in a way to encourage and facilitate a proactive cleaning of the pond. Approximately 575 tons of accumulated sediments were removed, profiled and disposed of at Waste Management's Meadowfill Landfill. Outlet 006 was thereafter monitored throughout December, the pond recovering to only ¼ full by month's end. By January 7<sup>th</sup>, Outlet 006 had resumed discharging. Sampling during both January and February produced Maximum Daily and Average Monthly exceedances as previously reported by letters dated February 4, 2020 and March 12, 2020. During March 2020, the subject of this letter, Average Monthly and Maximum Daily exceedances continued.

Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
April 14, 2020  
Page 2

Acting upon the theory summarized as the short-circuiting of flow within the highly stratified pond during winter, Monongahela Power, in its Corrective Action Plan to address Compliance Order 9032, submitted March 16, 2020 (courtesy copy of the first, most pertinent page is enclosed) proposed installing a turbidity boom/curtain across the pond's width at a point roughly bisecting the basin. That turbidity curtain was installed on March 24, 2020. Aluminum values have dropped continuously since then, including that of a sample collected April 1, 2020.

Length of Noncompliance

Uncertain. Following the basin cleaning, flow resumed by January 7, 2020. The events reported by this letter occurred during March 2020.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Douglas S. Hartman, Manager  
Governance, Permitting and  
Environmental Services

Enclosure

c: (email)  
Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Justin Painter - WVDEP Charleston

PAGE PROVIDED AS ATTACHMENT TO APRIL 14, 2020  
NONCOMPLIANCE LETTER TO DIRECTOR EMERY

**FEDERAL EXPRESS**

March 16, 2020

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
WV Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

RE: **Monongahela Power Company  
Rivesville Power Station CCR Landfill  
NPDES Permit No. WV0058776  
Compliance Order 9032  
Administrative Penalty Payment, Proposed Plan of Corrective Action, and Schedule**

Dear Chief Inspector:

**Payment**

Enclosed please find FirstEnergy Check Number 2924087, dated February 21, 2020 in the amount of \$21,030.00 as payment in full for the Administrative Penalty associated with Compliance Order 9032.

**Plan**

**Findings of Fact 2.a - Section A.006 Discharge Limitations** – Outlet 006 exceeded its Total Aluminum limitations during January and February 2018, these being cited in the Consent Order.

Monongahela Power (MP) has explained its theory of these exceedances being due to the gentle inflow of relatively warm leachate atop a highly stratified sedimentation pond, thus causing the relatively warm and thin surface layer to essentially “short-circuit” the mixing and precipitation process, travelling across the fetch of the sedimentation pond to the outlet structure. At the time of our December 10<sup>th</sup> conference at your Charleston Headquarters, we were able to state that no further exceedances had occurred. Since that time, exceedances have occurred during both January and February 2020. MP proposes the following Corrective Action: At minimum the water level in the pond is approximately seven feet deep. At normal high level the water is approximately 10.5 feet deep. A Type I Turbidity Curtain barrier with a curtain depth of three feet is being installed across the width of the sedimentation pond and will remain in place year-round. It is envisioned that during highly stratified conditions the relatively warm leachate inflow will back up behind this curtain, cool, drop, mix, and precipitation of the aluminum (and other constituents) will increase as this now-mixed flow travels under the curtain on its way toward the outflow structure. There is minimal concern regarding uneven solids buildup as the site is now closed and fully vegetated.

**Schedule**

The design has been finalized, suppliers contacted, and permanent installation is anticipated during the spring of 2020.





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west virginia department of environmental protection

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Environmental Enforcement  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Telephone: (304) 926-0470 Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
dep.wv.gov

April 2, 2020

Monongahela Power Company  
ATTN: Raymond Evans  
800 Cabin Hill Dr.  
Greensburg, PA 15601-1689

**CERTIFIED RETURN RECEIPT REQUESTED**

**9489 0090 0027 6201 5464 66**

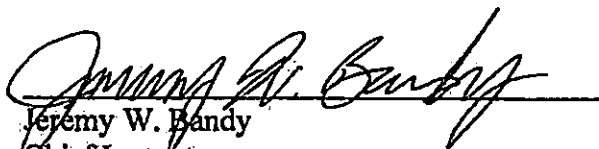
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Dear Mr. Evans:

The public notice requirements of Legislative Rule, Title 47, Series 1 (47CSR1) have been completed. No comments were received during the comment period; therefore, no changes have been made to Order No. 9032. Enclosed please find a fully executed copy of this final Order, effective April 2, 2020.

Please note the requirements under the Order for Compliance. Every effort should be made to comply with the terms of this Order. Should you have any questions regarding this matter, please contact David C. Simmons, Assistant Chief Inspector, at (304) 926-0470.

Sincerely,

  
Jeremy W. Bandy  
Chief Inspector

**Enclosure**

cc: Katheryn Emery, P.E., Acting Director, DWWM (via e-mail)  
Yogesh Patel, Assistant Director, DWWM/Permits (via e-mail)  
David C. Simmons, Assistant Chief Inspector, EE (via e-mail)  
Brad Wright, Assistant Chief Inspector, EE (via e-mail)  
Laura McGee, Environmental Resources Program Manager, EE (via e-mail)  
Tammy Potter, Environmental Resources Specialist, EE (via e-mail)  
Tonya Mather, Environmental Inspector Supervisor, EE/WW (via e-mail)  
Jason Ely, Environmental Inspector Specialist, EE/WW (via e-mail)  
Shyrel Moellendick, MSSS, EE (via e-mail)  
Lisa Trakis, US EPA, Region III (via e-mail)  
Greg Null, A/R Manager (via e-mail)

Promoting a healthy environment.



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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: (304) 926-0470  
Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
dep.wv.gov

**CONSENT ORDER  
ISSUED UNDER THE  
WATER POLLUTION CONTROL ACT  
WEST VIRGINIA CODE CHAPTER 22, ARTICLE 11**

**TO: Monongahela Power Company  
ATTN: Raymond Evans  
800 Cabin Hill Dr.  
Greensburg, PA 15601-1689**

**DATE: January 16, 2020**

**ORDER NO.: 9032**

**INTRODUCTION**

This Consent Order is issued by the Director of the Division of Water and Waste Management (hereinafter "Director"), under the authority of West Virginia Code 22-11-1 et seq. to Monongahela Power Company (hereinafter "Monongahela Power").

**FINDINGS OF FACT**

In support of this Order, the Director hereby finds the following:

1. Monongahela Power operates the Rivesville Power Station Landfill located in Rivesville, Marion County, West Virginia. Monongahela Power was reissued WV/NPDES Water Pollution Control Permit No. WV0050776 on February 18, 2015.
2. On May 14, 2019, West Virginia Department of Environmental Protection (WVDEP) personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the WV/NPDES permit were observed and documented:
  - a. Sections A.006 and A.MW106-Monongahela Power exceeded permit parameters.
  - b. Section C.2.h
    - i. Section C.2.h.(1)-Monongahela Power failed to create an operating record within fourteen (14) days after documenting a statistically significant change from background arsenic levels and failed to notify WVDEP of such.
    - ii. Section C.2.h.(4)-Monongahela Power failed to establish and implement a Phase II assessment monitoring program after repeat sampling confirmed Promoting a healthy environment.

that a statistically significant increase over background arsenic levels had occurred.

- c. Section C.2.i
  - i. Section C.2.i-Monongahela Power caused a statistically significant increase over the groundwater standards for arsenic.
  - ii. Section C.2.i.(1)-Monongahela Power failed to place a notice in the operating record within fourteen (14) days indicating that arsenic had shown a statistically significant change above groundwater standards and failed to notify WVDEP of such.
  - iii. Section C.2.i.(4)-Monongahela Power failed to initiate an assessment of corrective measures within ninety (90) days after repeat sampling confirmed a statistically significant increase above groundwater standards for arsenic.
  - iv. Section C.2.i.(7)-Monongahela Power failed to implement a corrective action program for arsenic based on the schedule required by WV Legislative Rule 33CSR1, Sections 4.11.f.4 and 4.11.g.
- d. Sections C.3.b.(2) and C.11-Monongahela Power failed to perform 2016 and 2017 annual water jet cleanouts of the leachate detection system lines underlying the surface impoundment, and Monongahela Power failed to include on its 2016 and 2017 Annual Reports a narrative describing routine maintenance at the facility, including the cleanout of the leachate detection system lines underlying the surface impoundment.

As a result of the aforementioned violations, Notice of Violation (NOV) No. SW19-24-003-CAH was issued to Monongahela Power.

3. On September 18, 2019, WVDEP personnel conducted a review of facility records from the time period of September 1, 2017 through August 31, 2019. During this review, the following violations of the terms and conditions of Monongahela Power's WV/NPDES permit were observed:
  - a. Sections A.006 and A.MW106 - Eight (8) exceedances of Monongahela Power's permit parameters were observed and documented (Table 1). These exceedances can be further defined as:
    - i. Moderate violations-six (6)
    - ii. Major violations-two (2)
4. On December 10, 2019, WVDEP personnel met with Monongahela Power representatives to discuss the terms and conditions of this Order.

### **ORDER FOR COMPLIANCE**

Now, therefore, in accordance with West Virginia State Code 22-11-1 et seq., it is hereby agreed between the parties, and ORDERED by the Director:

1. Monongahela Power shall immediately take all measures to initiate compliance with all terms and conditions of its WV/NPDES permit and pertinent laws and rules.

2. Within twenty (20) days of the effective date of this Order, Monongahela Power shall submit for approval a proposed plan of corrective action and schedule, outlining action items and completion dates for how and when Monongahela Power will achieve compliance with all terms and conditions of its WV/NPDES permit and pertinent laws and rules. The plan of corrective action shall make reference to WV/NPDES Permit No. WV0050776 and Order No. 9032. The plan of corrective action shall be submitted to:

**Chief Inspector  
Environmental Enforcement - Mail Code #031328  
WVDEP  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304**

Upon approval, the plan of corrective action and schedule shall be incorporated into and become part of this Order, as if fully set forth herein. Failure to submit an approvable plan of corrective action and schedule or failure to adhere to the approved schedule is a violation of this Order.

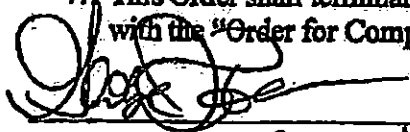
3. Because of Monongahela Power's permit violations, Monongahela Power shall be assessed a civil administrative penalty of twenty-one thousand thirty dollars (\$21,030) to be paid to the West Virginia Department of Environmental Protection for deposit in the Water Quality Management Fund within thirty (30) days of the effective date of this Order. Payments made pursuant to this paragraph are not tax-deductible for purposes of State or federal law. Payment shall include a reference to the Order No. and shall be mailed to:

**Chief Inspector  
Environmental Enforcement - Mail Code #031328  
WV-DEP  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304**

#### **OTHER PROVISIONS**

1. Monongahela Power hereby waives its right to appeal this Order under the provisions of West Virginia State Code 22-11-21. Under this Order, Monongahela Power agrees to take all actions required by the terms and conditions of this Order and consents to and will not contest the Director's jurisdiction regarding this Order. However, Monongahela Power does not admit to any factual and legal determinations made by the Director and reserves all rights and defenses available regarding liability or responsibility in any proceedings regarding Monongahela Power other than proceedings, administrative or civil, to enforce this Order.
2. The Director reserves the right to take further action if compliance with the terms and conditions of this Order does not adequately address the violations noted herein and reserves all rights and defenses which he may have pursuant to any legal authority, as well as the right to raise, as a basis for supporting such legal authority or defenses, facts other than those contained in the Findings of Fact.

3. If any event occurs which causes delay in the achievement of the requirements of this Order, Monongahela Power shall have the burden of proving that the delay was caused by circumstances beyond its reasonable control which could not have been overcome by due diligence (i.e., force majeure). Force majeure shall not include delays caused or contributed to by the lack of sufficient funding. Within three (3) working days after Monongahela Power becomes aware of such a delay, notification shall be provided to the Director/Chief Inspector and Monongahela Power shall, within ten (10) working days of initial notification, submit a detailed written explanation of the anticipated length and cause of the delay, the measures taken and/or to be taken to prevent or minimize the delay, and a timetable by which Monongahela Power intends to implement these measures. If the Director agrees that the delay has been or will be caused by circumstances beyond the reasonable control of Monongahela Power (i.e., force majeure), the time for performance hereunder shall be extended for a period of time equal to the delay resulting from such circumstances. A force majeure amendment granted by the Director shall be considered a binding extension of this Order and of the requirements herein. The determination of the Director shall be final and not subject to appeal.
4. Compliance with the terms and conditions of this Order shall not in any way be construed as relieving Monongahela Power of the obligation to comply with any applicable law, permit, other order, or any other requirement otherwise applicable. Violations of the terms and conditions of this Order may subject Monongahela Power to additional penalties and injunctive relief in accordance with the applicable law.
5. The provisions of this Order are severable and should a court or board of competent jurisdiction declare any provisions to be invalid or unenforceable, all other provisions shall remain in full force and effect.
6. This Order is binding on Monongahela Power, its successors and assigns.
7. This Order shall terminate upon Monongahela Power's notification of full compliance with the "Order for Compliance" and verification of this notification by WVDEP.

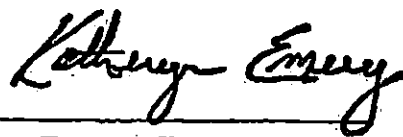
  
~~Raymond Burns~~ George J. Farah  
Monongahela Power Company

Feb 17, 2020  
Date

Public Notice begin:

2/25/2020  
Date

Public Notice end:

  
Kathryn Emery, P.E., Acting Director  
Division of Water and Waste Management

3/26/2020  
Date  
3/30/2020  
Date

Table One: Monongahela Power DMR Exceedance Summary

Outlet 006 DMR Exceedances - AVG. MONTHLY - September 1, 2017 through August 31, 2019						Degree of non-compliance		
Date	Parameter	Units	Permitted avg. monthly	Reported avg. monthly	% Exceedance	Min	Med	Max
1/2018	Total Recoverable Aluminum	mg/L	0.29	0.9927	242%		X	
2/2018	Total Recoverable Aluminum	mg/L	0.29	1.4417	397%			X

SIW106 DMR Exceedances - MAX. DAILY - September 1, 2017 through August 31, 2019						Degree of non-compliance		
Date	Parameter	Units	Permitted max. daily	Reported max. daily	% Exceedance	Min	Med	Max
9/30/2017	Dissolved Arsenic	mg/L	0.01	0.062436	524%		X	
3/31/2018	Dissolved Arsenic	mg/L	0.01	0.074582	646%			X
9/30/2018	Dissolved Arsenic	mg/L	0.01	0.044693	347%		X	
3/31/2019	Dissolved Arsenic	mg/L	0.01	0.049217	392%		X	

Outlet 006 DMR Exceedances - MAX. DAILY - September 1, 2017 through August 31, 2019						Degree of non-compliance		
Date	Parameter	Units	Permitted Max. Daily	Reported Max. Daily	% Exceedance	Min	Med	Max
1/2018	Total Recoverable Aluminum	mg/L	0.8	2.29	186%		X	
2/2018	Total Recoverable Aluminum	mg/L	0.8	2.04	155%		X	

Totals						Degree of non-compliance		
Min	Med	Max						
0	6	2						



Continue rating Findings of Facts (FOF) here, if necessary. Otherwise, continue on Page 3.

1)	Potential for Harm Factor	Factor Range	FOF#											
a)	Amount of Pollutant Released	1 to 3												
b)	Toxicity of Pollutant	0 to 3												
c)	Sensitivity of the Environment	0 to 3												
d)	Length of Time	1 to 3												
e)	Actual Exposure and Effects thereon	0 to 3												
Average Potential for Harm Factor			No	No	No	No	No	No	No	No	No	No	No	No
2)	Extent of Deviation Factor	Factor Range												
	Degree of Non-Compliance	1 to 3												



		Extent of Deviation from Requirement		
		Major	Moderate	Minor
Potential for Harm to Human Health or the Environment	Major	\$8,000 to \$10,000	\$6,000 to \$8,000	\$5,000 to \$6,000
	Moderate	\$4,000 to \$5,000	\$3,000 to \$4,000	\$2,000 to \$3,000
	Minor	\$1,500 to \$2,000	\$1,000 to \$1,500	Up to \$1,000

FOF #	Potential for Harm	Extent of Deviation	Penalty	Multiple Factor	Base Penalty
2b	Minor	Major	\$2,000	1	\$2,000
2c	Minor	Major	\$2,000	1	\$2,000
2d	Minor	Major	\$2,000	2	\$4,000
3ai	Minor	Moderate	\$1,500	6	\$9,000
3aii	Minor	Major	\$2,000	2	\$4,000
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
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0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
<b>Total Base Penalty</b>					<b>\$21,000</b>

## Penalty Adjustment Factors

(pursuant to 47CSR1-6.2)

### Penalty Adjustment Factor

6.2.b.1 - Degree of or absence of willfulness and/or negligence - 0% to 30% increase

6.2.b.4 - Previous compliance/noncompliance history - 0% to 100% increase - based upon review of last three (3) years - Warning = maximum of 5% each, N.O.V. = maximum of 10% each, previous Order = maximum of 25% each - Consistent DMR violations for <1 year = 10% maximum, for >1 year but <2 years = 20% maximum, for >2 years but <3 years = 30% maximum, for >3 years = 40 % maximum

6.2.b.6 - Economic benefits derived by the responsible party (increase to be determined)

6.2.b.7 - Public Interest (increase to be determined)

6.2.b.8 - Loss of enjoyment of the environment (increase to be determined)

6.2.b.9 - Staff investigative costs (increase to be determined)

6.2.b.10 - Other factors

Size of Violator: 0 - 50% decrease

**NOTE:** This factor is not available to discharges that are causing a water quality violation. This factor does not apply to a commercial or industrial facility that employees or is part of a corporation that employees more than 100 individuals.

Avg. Daily WW Discharge Flow (gpd)	% Reduction Factor
< 5,000	50
5,000 to 9,999	40
10,000 to 19,999	30
20,000 to 29,999	20
30,000 to 39,999	10
40,000 to 99,999	5
> 100,000	0

**Additional Other factors to be determined for increases or decreases on a case-by-case basis.**

Public Notice Costs (cost for newspaper advertisement)

6.2.b.2 - Good Faith - 10% decrease to 10% increase

6.2.b.3 - Cooperation with the Secretary - 0% to 10% decrease

6.2.b.5 - Ability to pay a civil penalty - 0% to 100% decrease

## Base Penalty Adjustments

(pursuant to 47CSR1-6.2)

Penalty Adjustment Factor	% Increase	% Decrease	Base Penalty Adjustments
6.2.b.1 - Willfulness and/or negligence -	10		\$2,100
6.2.b.4 - Compliance/noncompliance history			\$0
6.2.b.6 - Economic benefits - (flat monetary increase)			\$0
6.2.b.7 - Public Interest - (flat monetary increase)			\$0
6.2.b.8 - Loss of enjoyment - (flat monetary increase)			\$0
6.2.b.9 - Investigative costs - (flat monetary increase)			\$0
6.2.b.10 - Other factors (size of violator)			\$0
6.2.b.10 - Additional Other Factors - Increase (flat monetary increase)			\$0
6.2.b.10 - Additional Other Factors - Decrease (flat monetary decrease)			\$0
Public Notice Costs (flat monetary increase)	\$30		\$30
6.2.b.2 - Good Faith - Increase			\$0
6.2.b.2 - Good Faith - Decrease			\$0
6.2.b.3 - Cooperation with the Secretary		10	(\$2,100)
6.2.b.5 - Ability to Pay			\$0
<b>Penalty Adjustments</b>			<b>\$30</b>
<b>Penalty =</b>			<b>\$21,030</b>

Estimated Economic Benefit Item	Estimated Benefit (\$)
Monitoring & Reporting	
Installation & Maintenance of Pollution Control Equipment	
O&M expenses and cost of equipment/materials needed for compliance	
Permit Application or Modification	
Competitive Advantage	
<b>Estimated Economic Benefit</b>	<b>\$0</b>
<b>Comments: Economic benefit not warranted.</b>	

**FEDERAL EXPRESS**

March 16, 2020

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
WV Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
NPDES Permit No. WV0050776  
Compliance Order 9032  
Administrative Penalty Payment, Proposed Plan of Corrective Action, and Schedule**

Dear Chief Inspector:

**Payment**

Enclosed please find FirstEnergy Check Number 2924087, dated February 21, 2020 in the amount of \$21,030.00 as payment in full for the Administrative Penalty associated with Compliance Order 9032.

**Plan**

**Findings of Fact 2.a - Section A.006 Discharge Limitations** – Outlet 006 exceeded its Total Aluminum limitations during January and February 2018, these being cited in the Consent Order.

Monongahela Power (MP) has explained its theory of these exceedances being due to the gentle inflow of relatively warm leachate atop a highly stratified sedimentation pond, thus causing the relatively warm and thin surface layer to essentially “short-circuit” the mixing and precipitation process, travelling across the fetch of the sedimentation pond to the outlet structure. At the time of our December 10<sup>th</sup> conference at your Charleston Headquarters, we were able to state that no further exceedances had occurred. Since that time, exceedances have occurred during both January and February 2020. MP proposes the following Corrective Action: At minimum the water level in the pond is approximately seven feet deep. At normal high level the water is approximately 10.5 feet deep. A Type 1 Turbidity Curtain barrier with a curtain depth of three feet is being installed across the width of the sedimentation pond and will remain in place year-round. It is envisioned that during highly stratified conditions the relatively warm leachate inflow will back up behind this curtain, cool, drop, mix, and precipitation of the aluminum (and other constituents) will increase as this now-mixed flow travels under the curtain on its way toward the outflow structure. There is minimal concern regarding uneven solids buildup as the site is now closed and fully vegetated.

**Schedule**

The design has been finalized, suppliers contacted, and permanent installation is anticipated during the spring of 2020.

**Findings of Fact 2.b.i. - Permit Section C.2.h(1):** Monongahela Power failed to create an operating record within fourteen (14) days after documenting a statistically significant change from background arsenic levels and failed to notify WVDEP of such.

**Plan**

MP reports statistically significant increases (SSIs) above background levels for arsenic by providing the statistical analysis report as an attachment to the electronic discharge monitoring report (eDMR) package submitted within WVDEP's Electronic Submittal System (ESS). This report, an example of which is provided as **Attachment 1**, clearly identifies what parameters exhibit a statistically significant increase over background levels. MP contends that the eDMR submittal packages constitute the operating record for all groundwater monitoring results.

If results at a statistically significant level above permit limits for any parameter are confirmed by re-sampling, MP will provide written notification to the Director of the Waste Permitting Section, WVDEP Division of Water and Waste Management via certified letter within 14 days of result availability. This notification will be in addition to the eDMR report referenced above.

Because the Rivesville Power Station closed in 2012 and is unmanned, it is impractical to maintain an operating record at the station itself. MP therefore requests that WVDEP approve an alternate location for maintaining the operating record, as is allowable under 33CSR1 §4.4. That alternate location is FirstEnergy's corporate offices at 800 Cabin Hill Drive, Rm A-301, Greensburg, PA 15601 where all site related records and files for the Rivesville station and landfill required by 33CSR1 §4.4 are currently maintained.

**Schedule**

MP will continue to report SSIs above background levels on a biannual basis via the eDMR portion of the WVDEP ESS.

**Findings of Fact 2.b.ii - Permit Section C.2.h(4):** Monongahela Power failed to establish and implement a Phase II assessment monitoring program after repeat sampling confirmed that a statistically significant increase over background arsenic levels had occurred.

**Plan**

A Phase II monitoring program entails analyzing groundwater samples for the organic parameters listed in Appendix II of the Solid Waste Management Rule, unless waived by the Secretary upon request of the permittee in accordance with 33 CSR1 §4.11.c.2. MP requests that WVDEP waive the Phase II monitoring program requirements because organic parameters are not constituents of concern at coal combustion residuals (CCR) landfills. Additionally, by loading a copy of this Corrective Action Plan submittal to the SW/NPDES permit WV0050776 renewal application currently within the WVDEP ESS, MP formally requests that WVDEP incorporate this waiver into Rivesville's upcoming draft renewal permit.

33CSR1 §4.11.c.2.E allows the Secretary to delete any of the Phase II monitoring parameters for a SWLF if it can be shown that the removed constituents are not reasonably expected to be in or derived from the waste

Chief Inspector  
Environmental Enforcement - Mail Code #031328  
March 16, 2020  
Page 3

contained in the SWLF. Two separate large-scale studies have conclusively determined that organic constituents are not found in CCR wastes because they are consumed during the combustion process when generating power.

Specifically, EPA's *Report to Congress: Wastes from the Combustion of Fossil Fuels: Volume 2 – Methods, Findings, and Recommendations*, found that the concentration of all organic parameters in both CCR and CCR leachate were at or below analytical detection limits. As a result, EPA concluded that organics are not risk drivers at coal ash landfills and does not require analysis for organics in groundwater or leachate under the CCR Rule (40 CFR 257).

In addition, the Electric Power Research Institute (EPRI) analyzed coal ash disposal site leachate for over 200 VOCs and SVOCs in its report entitled *Coal Combustion Residuals Leachate Management, Characterization of Leachate Quality, Final Report 3002007125 (EPRI December 2016)*. No organic compounds were detected in any of the individual leachate samples from 75 sites.

#### Schedule

Not applicable if Phase II monitoring requirements are waived.

**Findings of Fact 2.c.i-ii - Permit Sections C.2.1(1):** Monongahela Power caused a statistically significant increase over the groundwater standards for arsenic, failed to create an operating record within fourteen (14) days indicating that arsenic had shown a statistically significant change above groundwater standards, and failed to notify WVDEP of such.

#### Plan

MP reports all groundwater analytical data via the electronic Discharge Monitoring Report (eDMR) module within the WVDEP Electronic Submittal System (ESS). The eDMR table shows a value of one (1) exceedance for each reported parameter value greater than the applicable standard. Any permit level exceedances are also identified by a notation in the comments attached to each eDMR submittal package. MP contends that the eDMR reports constitute the operating record for all groundwater monitoring results and that no further action regarding creating an operating record is necessary when parameters exceed permit limits.

#### Schedule

If results at a statistically significant level above permit limits for any parameter are confirmed by re-sampling, MP will provide written notification to the Director of the Waste Permitting Section, WVDEP Division of Water and Waste Management via certified letter within 14 days of result availability.

**Findings of Fact 2.c.iii - Permit Sections C.2.1(4):** Monongahela Power failed to initiate an assessment of corrective measures within ninety (90) days after repeat sampling confirmed a statistically significant increase above groundwater standards for arsenic.

#### Plan

As described in an e-mail to the environmental inspector on May 15, 2019 (see Attachment 2), the assessment of corrective measures (ACM) process has already been initiated to address the arsenic permit

limit exceedances in MW-106. Although initiated, the ACM process cannot be completed until the nature and extent of the arsenic impacts are characterized in accordance with 33CSR1 §4.11.c.7. To that end, MP submitted a Groundwater Assessment Plan (GWAP) for Department review and approval during our Dec 10, 2019 meeting. Groundwater assessment field activities can begin upon GWAP approval.

After the field investigation activities are completed, a Groundwater Assessment Report will be prepared and submitted to the Department. The report will provide an evaluation of investigation results and recommendations on next steps. If the report concludes that no additional site characterization efforts are necessary, MP will then prepare and submit an ACM Report. Otherwise, additional field investigation activities will be performed as necessary to fully delineate the extent of the arsenic release. Once the ACM Report is approved by the Department, work can begin on the Selection of Remedy Report.

The following schedule lists the significant milestones required to comply with the Corrective Action process described in the Solid Waste Management Rule at 33CSR1 §4.11.e. WVDEP will be notified in writing of any schedule changes necessitated by site conditions, investigation results, or additional data requirements. The actual groundwater field investigation start date is also dependent on driller availability.

#### Schedule

Note: Assumes GWAP approval is received by April 1, 2020 and subsequent required Department reviews and approvals are performed in a timely manner.

<u>Milestone</u>	<u>Begin</u>	<u>End</u>
Groundwater Assessment Plan (GWAP) Prep	6/1/2019	10/31/2019
GWAP Department Review and Approval	12/10/2019	4/1/2020
Groundwater Field Investigation	5/1/2020	5/30/2020
GW Assessment Report Prep & Lab Analysis	6/1/2020	6/31/2020
GW Assessment Report Dept Review/Approval	7/1/2020	7/31/2020
ACM Report Preparation	8/1/2020	8/31/2020
ACM Report Dept Review/Approval	9/1/2020	9/30/2020
Selection of Remedy (SoR) Report Preparation	10/1/2020	11/30/2020
SoR Report Department Review & Approval	12/1/2020	12/31/2020
33SCR1 §4.11.f.4 Remedy Implementation Sched	1/1/2021	1/31/2021

Findings of Fact 2.c.iv - Permit Sections C.2.i.(7): Monongahela Power failed to implement a corrective action program for arsenic based on the schedule required by WV Legislative Rule 33CSR1, Sections 4.11.f.4 and 4.11.g.

#### Plan

A schedule for initiating and completing remedial activities will be prepared after the remedy is selected and the Selection of Remedy Report is approved by WVDEP. The preceding corrective action steps must be completed before a remedy implementation schedule can be prepared.

Schedule

See schedule above.

Findings of Fact 2.d - Section C.3.b.(2) and C.11 Annual Water Jet Cleanouts – Monongahela Power failed to perform 2016 and 2017 annual water jet cleanouts of the “leachate detection system” lines underlying the surface impoundment and failed to include on its 2016 and 2017 Annual Reports.

Plan

As previously communicated, although Permit Condition C.11 identifies the lines under the Rivesville surface impoundment as Leachate Detection, that is not technically correct as true leachate detection only exists beneath the lower liner of a double liner system. The branched line beneath Rivesville’s surface impoundment is more correctly identified as an underdrain. Unlike the significant solids content frequently encountered during the flushing of the leachate collection lines at other landfills, high pressure flushing of this line beneath Rivesville’s surface impoundment on May 29, 2019 produced nothing more than a lot of essentially clear water. It is for this reason that Assistant Director Patel was requested, by email dated September 3, 2019, to reduce the water jetting requirement contained within the renewal permit of this closed landfill to no more frequently than once per permit cycle. Documentation and video of the clarity of this flushing continues to be available upon request. Rivesville’s SW/NPDES Permit WV0050776 is currently administratively extended. A copy of this Corrective Action Plan is also being loaded to the renewal application within the ESS with the explicit request that its contents be considered as the draft SW/NPDES renewal is prepared

Schedule

In addition to having requested and continuing to request that the frequency of flushing of the line misidentified within the permit as “leachate detection system” but more accurately the “underdrain” underlying the surface impoundment, MP will have this line water jetted during each April or May until such time as the requirement is reduced or eliminated from the facility’s permit. Each jetting shall be noted within the facility’s Annual Operations Report.

Additional Requests at Permit Renewal

As a result of the May 14, 2019 inspection, subsequent documents and discussions, MP was advised to ensure that certain items were more clearly defined within the upcoming renewal of Permit WV0050776. To that end, the following items are listed here and, as part of this submittal, are also being loaded to the permit renewal application currently within Electronic Submission System:

LMI It was stated that MP is not authorized to collect Leachate Monitoring Point 1 from the point where it is currently sampled. MP responded to that statement as follows: “...In a follow up email from Mr. Cannon on May 17, 2019, it was determined that the permittee is currently sampling for LMI at the leachate detection sump by removing the grate and not at the 4” PVC pipe that discharges into the Sedimentation Pond No. 1. This change in the sampling location was determined due to the combination of physical and safety reasons because when the sump is operating, the flow of the discharge is too powerful to sample with



Chief Inspector  
Environmental Enforcement - Mail Code #031328  
March 16, 2020  
Page 6

a dipper. The sample is representative in the leachate detection sump of what would be discharged from LM1. The current sampling location is not permitted in the permit and the permittee would need to modify the permit to reflect this sampling location for LM1."

Response: The permit renewal application submitted via the Electronic Submission System (ESS) on August 14, 2019 contains the following comment: "Monitoring Point LM1 was the discharge from the detection system beneath the landfill's sedimentation basin. Originally LM1 was located immediately adjacent to Outlet 006 and flowed independently to the head of the unnamed tributary of the Monongahela River which arguably begins with the sedimentation pond's 006 discharge. The piping for LM1 was subsequently redirected incorporating it into the Outlet 006 discharge pipe's flow. Later, as proposed and subject of Permit Modification No. 1 issued by letter dated July 5, 2011, this discharge was separated and rerouted to a dedicated sump. This sump in turn discharges back into the head of the sedimentation basin. As such, LM1 ceased to exist but Modification No. 1 did not formally remove it from the permit, so for the remainder of that permit cycle, LM1 was reported as no flow. The permit effective April 1, 2015 relocated LM1 to the "discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018." For practical reasons LM1 is now sampled from the pipe influent to the sump as the pipe discharging from the sump back up and into the sedimentation pond cannot be sampled safely or effectively, nor is there any reasonable fix for that. Moreover, there is no discernable difference in water quality between these points.

Should you have any further questions regarding these matters please contact William Cannon at (724) 838-6018 or [wcannon@firstenergycorp.com](mailto:wcannon@firstenergycorp.com).

Sincerely,



Douglas S. Hartman  
Manager,  
Governance, Permitting &  
Environmental Services

Enclosures

c: Jason Ely - WVDEP, Fairmont  
Yogesh Patel - WVDEP, Charleston  
Brad Wright - WVDEP, Charleston

July 9, 2019  
10:59:51 AM

Rivesville

Solid Waste NPDES Permit WV0050776 - Interwell Statistical Evaluation

Background Date Range: 01/01/2003 to 03/31/2019  
Background Locations: MW101

Number of Future Observations: 20.00

Compliance Date Range: 10/01/2018 to 03/31/2019  
Compliance Locations: MW106

Comparison Method if all Background Results are Non-Detect:

STmdl = Last MDL

Statistical Test for Parametric Background Data Distributions:

STpar = Parametric Prediction Interval on Background

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

Statistical Test for Non-Parametric Background Data Distributions:

STnon = Non-Parametric Prediction Interval on Background

Background Comparison:

Interwell

Number of Verification Samples:

1

Default Type 1 Individual Comparison Error Level

0.01

(False Positive Rate) for tests other than Prediction Interval

Type 1 Individual Comparison Error Level  
(False Positive Rate) for Prediction Interval

Calculate prediction interval using an error-level of 0.01, based on the approach of USEPA (1992)

Non-Detect Processing (Parametric Tests):

≤55% using MDL \* 1.0

>55% using MDL \* 1.0

Non-Detect Processing (All Other):

≤55% using MDL \* 1.0

>55% using MDL \* 1.0

Compliance Location	Parameter	Sample Date	Count of Blg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW106	Aluminum, dissolved, ug/L	11/07/2018	17	17.65	Yes/Yes	STper	99.00	82.687		<0.00018	No	
MW106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STper	99.00	3.04476		<0.00018	No	
MW106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000		49.21700	Yes	
MW106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STper	99.00	108.567		0.054	No	
MW106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045		<0.000	No	
MW106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	STnon	99.42	13,100.000		11,564.000	No	
MW106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000		0.00021	No	
MW106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STper	99.00	3.013		1.591	No	
MW106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STper	99.00	3,163.600		5,690.000	Yes	
MW106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STndi	N/A	0.00052		<0.00052	No	
MW106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000		2,150.000	No	
MW106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200		<0.040	No	
MW106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300		<2.000	No	
MW106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	STnon	99.42	59.80000		<0.00110	No	
MW106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STper	99.00	225.392		902.000	Yes	
MW106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000		<0.0002	No	

MANAGES

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance Trend
MW106	Total Dissolved Solids, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	804.605		2,180.000	Yes
MW106	Zinc, dissolved, ug/L	11/07/2018	17	11.76	Yes/Yes	STpar	99.00	32.460		3.536	No

MANAGES

July 9, 2019  
11:00:55 AM

Rivesville  
Solid Waste NPDES permit WV0050776 - Intrawell Statistical Evaluation

Background Date Range: 01/01/2003 to 03/31/2019  
Background Locations: MW101

Number of Future Observations: 18.00

Compliance Date Range: 10/01/2018 to 03/31/2019  
Compliance Locations: MW106

Comparison Method if all Background Results are Non-Detect:

Statistical Test for Parametric Background Data Distributions:

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

Statistical Test for Non-Parametric Background Data Distributions:

STmdl = Last MDL

STpar = Parametric Prediction Interval on Background

STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

STnon = Non-Parametric Prediction Interval on Background

Background Comparison:

Number of Verification Samples:

Default Type 1 Individual Comparison Error Level  
(False Positive Rate) for tests other than Prediction Interval

Type 1 Individual Comparison Error Level  
(False Positive Rate) for Prediction Interval

Intrawell

1

0.01

Calculate prediction interval using an error-level of 0.01, based on the approach of  
USEPA (1992)

Non-Detect Processing (Parametric Tests):

<=55% using MDL \* 1.0

>55% using MDL \* 1.0

Non-Detect Processing (All Other):

<=55% using MDL \* 1.0

>55% using MDL \* 1.0

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW106	Aluminum, dissolved, ug/L	11/07/2018	17	17.65	Yes/Yes	STpar	99.00	82.687		<2.600	No	
MW106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STpar	99.00	3.04476		<0.00018	No	
MW106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000		49.21700	Yes	
MW106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STpar	99.00	108.567		0.054	No	
MW106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045		<0.000	No	
MW106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	STlow	99.42	13,100.000		11,564.000	No	
MW106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000		0.00021	No	
MW106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STpar	99.00	3.013		1.591	No	
MW106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STpar	99.00	3,163.600		5,690.000	Yes	
MW106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STmdl	N/A	0.00052		<0.00052	No	
MW106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000		2,150.000	No	
MW106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200		<0.040	No	
MW106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300		<2.000	No	
MW106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	STlow	99.42	59.80000		<0.00110	No	
MW106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	225.392		902.000	Yes	
MW106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000		<0.0002	No	

MANAGES

**From:** Newbaker IV, Edward J  
**Sent:** Wednesday, May 15, 2019 1:03 PM  
**To:** Cody A. Howdysshell (cody.a.howdysshell@wv.gov)  
**Cc:** Shipman, Michael J; Cannon, William E; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov)  
**Subject:** RE: Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items  
**Attachments:** Riv MW106 As Resample Results.pdf

Cody,

As requested during our conf call yesterday, please find attached re-sampling results for Rivesville LF MW-106 confirming that arsenic levels exceed the permit limit of 10 ug/l. As a result, a groundwater assessment will be performed to determine the cause and extent of arsenic impacts and an assessment of corrective measures will be initiated in accordance with 33CSR1 §4.11.e, as appropriate.

Also, in response to your question concerning statistical analysis, interwell and intrawell prediction interval methods are used at Rivesville.

Please let me know if you need any additional info or if you have any other questions.

Thanks,

Jay Newbaker, P.G. | Senior Scientist  
Office: 724-838-6674 | Cell: 724-205-8743  
E-Mail: enewbaker\_iv@firstenergycorp.com

**FirstEnergy**

Environmental Department | Room A-301  
800 Cabin Hill Drive | Greensburg, PA 15601

**From:** Cannon, William E  
**Sent:** Wednesday, May 15, 2019 9:32 AM  
**To:** Cody A. Howdysshell (cody.a.howdysshell@wv.gov) <cody.a.howdysshell@wv.gov>; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov) <jason.m.ely@wv.gov>  
**Cc:** Shipman, Michael J <mshipman@firstenergycorp.com>; Newbaker IV, Edward J <enewbaker\_iv@firstenergycorp.com>  
**Subject:** Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items

Cody,

Attached, in accordance with requests made during your May 14, 2019 Inspection of the Rivesville Power Station Closed CCB Landfill, please find two files, these being of completed Landfill Inspection Forms and Facility Maintenance Logs. As discussed, these files contain a representative sampling of each completed form from each of the last three years.

As to the other discussed items, we are currently assembling and verifying relevant information which we anticipate supplying in response to your inspection report.

William E. Cannon

FEB - 6 2020



DWWM-WASTE

800 Cabin Hill Drive  
Greensburg, PA 15601

**CERTIFIED MAIL**  
7016 2140 0001 1036 8695

February 4, 2020

Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Ms. Emery:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Maximum Daily and Average Monthly Total Recoverable Aluminum limits of 0.8 and 0.29 mg/L, respectively, during January 2020.

**Description of Discharge (Outlet 006)**

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on January 7 (Aluminum of 0.4294 mg/L, flow of 55 gpm); January 16 (Aluminum of 2.700 mg/L, flow of 15 gpm) and January 23, 2020 (Aluminum of 2.500 mg/L, flow of 10 gpm) resulting in 2 exceedances of the Maximum Daily Total Recoverable Aluminum limit and one exceedance of the Average Monthly Total Recoverable Aluminum limit (1.877 mg/L).

**Cause of Noncompliance**

The CCR Site closure was completed during 2014. The reason for these elevated Total Recoverable Aluminum results remains uncertain.

**Steps Taken to Reduce, Eliminate & Prevent Recurrence**

The site is closed, fully vegetated, and there is no activity. The site receives regular, thorough inspections with no erosional or other issues identified. The sedimentation basin's discharge structure stop logs were adjusted during 2017 to increase and optimize the basin's retention time. Previously reported Aluminum exceedances occurred during January and February 2018 due to unique weather conditions having caused a short-circuiting of flow from the inlet to the discharge structure, this due to a relatively warm and light surface layer crossing the pond's colder and denser under layer. No further exceedances occurred. However, in late November and early December 2019, nearly two years after that last exceedance, practical circumstances presented themselves in a way to encourage and facilitate a proactive cleaning of the basin. Approximately 575 tons of accumulated sediments were removed, profiled and disposed of at Waste Management's Meadowfill Landfill. Outlet 006 was thereafter monitored throughout December, the basin recovering to only ¼ full by month's end. By January 7<sup>th</sup>, Outlet 006 had resumed discharging and was sampled. At that time the Average Monthly Total Recoverable Aluminum limit was exceeded. Resampling for Aluminum on January 17 and 23 each produced Maximum Daily exceedances. All of the January 2020 limit excursions were most likely the result of post-cleaning fine residual sediment re-entrainment.



Ms. Katheryn Emery, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
February 4, 2020  
Page 2

Continued monitoring is currently proposed.

Length of Noncompliance

Uncertain. Following the basin cleaning, flow resumed by January 7, 2020. The reported events occurred during January 2020.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Douglas S. Hartman, Manager  
Governance, Permitting and  
Environmental Services

c: Jason Ely - WVDEP Fairmont  
Tonya Mather - WVDEP Fairmont  
Justin Painter - WVDEP Charleston

**FEDERAL EXPRESS**

August 29, 2019

Ms. Tonya Mather, Environmental Inspector Supervisor  
WV Department of Environmental Protection  
Environmental Enforcement  
2031 Pleasant Valley Road  
Fairmont, WV 26554

RECEIVED

SEP 06 2019

ENVIRONMENTAL  
ENFORCEMENT  
Fairmont

**RE: Monongahela Power Company  
Rivesville Power Station CCR Landfill  
NPDES Permit No. WV0050776  
Compliance Evaluation Inspection Report Response, Including NOV: SW19-24-003-CAH**

Dear Ms. Mather:

Inspector Cody Howdyshell conducted a Compliance Evaluation Inspection (CEI) of the decommissioned Rivesville Power Station's Closed Captive Coal Combustion Residue Landfill-SW/NPDES Permit No. WV0050776 on May 14, 2019. The report for this inspection was issued by letter dated August 13, 2019. The report included assertions and action items to which Monongahela Power feels it is appropriate (CEI) or is obligated to respond (NOV). The report's narrative items and Monongahela Power's (MP's) responses follow:

CEI Narrative

1. Point of clarification relative to Item 3 of the introductory Permit section narrative: Outlet 006 does not "discharge into an unnamed tributary of the Monongahela River in the Parkers Run drainage basin." Outlet 006 discharges to an unnamed tributary of the Monongahela River. Parkers Run is the next drainage basin to the south (upriver). Item 2 of the current permit provides for the maintenance of a long-closed, pre-regulation landfill which is in the drainage basin of Parker Run. This older facility was assessed by the Department following issuance of the 1992 Solid Waste Rules; there are no point source discharges and no monitoring is required.
2. Records/Reports Paragraph No. 3 states that "Since arsenic was determined to have a statistically significant increase over background concentration a notice should have been placed in the operating record within fourteen (14) days and the Secretary should have been notified of the notice being placed in the operating record per Section C.2.h.(1). While the permit does not have a condition that requires an operating record be kept, this should have triggered the creation of an operating record."

Response: MP includes a summary of the statistical results with each eDMR that clearly identifies which wells and parameters exhibit a statistically significant increase (SSI) over background levels that fulfills the operating record requirement per §4.4.c.15.A.5. Because the permit does not specify any means to submit notifications, the eDMR is the only established method to provide notification that we're aware of. As stated, MP clearly made such a notification. It is not clear if there is a format other than the ESS submittals that should be used.

3. Comment on Facility Site Review Section: "All observed wells were properly labeled and locked at the time of the inspection, except for MW106."

Response: As shown by the report's Photograph DSCF6604, MW106 is a flush mounted well located within the landfill's gravel roadway. It is constructed with a proper commercially available bolted flush-mount cap obviating the need for a lock. Because the well is located within a roadway, there is no stick-up protective casing to label. A sign containing the required information is currently being made and will be installed at the roadside adjacent to MW106.

4. Section Effluent/Receiving Waters states that Total Recoverable Arsenic produced an unreported permit limit exceedance for the reporting period ending August 31, 2017.

Response: See response to NOV Item 1, below.

5. Section Effluent/Receiving Waters states that during the months of January and February 2018, the Maximum Daily limitations for Total Recoverable Aluminum were exceeded at Outlet 006. It is stated that "The above Maximum Daily violations were not reported to the Agency's designated spill alert telephone number. However, the permittee did provide a written submission within five (5) days."

Response: The current NPDES permit does not require MP to immediately report Aluminum exceedances of the maximum daily discharge limitation. Appendix A, Other Reporting, 2. Immediate Reporting states "The following shall also be reported immediately:" "(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance." Please identify the location of this "to be reported immediately" list within the facility's current permit. See response to NOV Item 1, below, for a description of the steps MP took to report the Aluminum exceedances.

6. Section Sampling states that "...In a follow up email from Mr. Cannon on May 17, 2019, it was determined that the permittee is currently sampling for LM1 at the leachate detection sump by removing the grate and not at the 4" PVC pipe that discharges into the Sedimentation Pond No. 1. This change in the sampling location was determined due to the combination of physical and safety reasons because when the sump is operating, the flow of the discharge is too powerful to sample with a dipper. The sample is representative in the leachate detection sump of what would be discharged from LM1. The current sampling location is not permitted in the permit and the permittee would need to modify the permit to reflect this sampling location for LM1."

Response: The permit renewal application submitted via the Electronic Submission System (ESS) on August 14, 2019 contains the following comment: "Monitoring Point LM1 was the discharge from the detection system beneath the landfill's sedimentation basin. Originally LM1 was located immediately adjacent to Outlet 006 and flowed independently to the head of the unnamed tributary of the Monongahela River which arguably begins with the sedimentation pond's 006 discharge. The piping for LM1 was subsequently redirected incorporating it into the Outlet 006 discharge pipe's flow. Later, as proposed and subject of Permit Modification No. 1 issued by letter dated July 5, 2011, this discharge was separated and rerouted to a dedicated sump. This sump in turn discharges back into the head of the sedimentation basin. As such, LM1 ceased to exist but Modification No. 1 did not formally remove it from the permit, so for the remainder of that permit cycle, LM1 was reported as no flow. The permit effective April 1, 2015 relocated LM1 to the "discharge from the 4" PVC pipe which carries effluent from the leak detection sump depicted on Drawing C7550018." For practical reasons LM1 is now sampled

from the pipe influent to the sump as the pipe discharging from the sump back up and into the sedimentation pond cannot be sampled safely or effectively, nor is there any reasonable fix for that. Moreover, there is no discernable difference in water quality between these points.

A copy of this response will be provided to Assistant Director Yogesh Patel with a request that this circumstance be assessed as the site's renewal permit is prepared.

### CEI Summary

Summary items subsequently noted within NOV# SW19-24-003-CAH are not repeatedly addressed here – see NOV response section.

Item 7. Monongahela Power failed to include information {in the Annual Report} pertaining to clean-out of the leachate detection system lines that underly the surface impoundment, as required by Section C.3.b.(2).

Response: As previously communicated to Inspector Howdysshell, although Permit Condition C.11 identifies the lines under the Rivesville surface impoundment as Leachate Detection, that is not technically correct as true leachate detection only exists beneath the lower liner of a double liner system. The branched line beneath Rivesville's surface impoundment is more correctly identified as an underdrain. Unlike the significant solids content frequently encountered during the flushing of the leachate collection lines at other landfills, high pressure flushing of this line beneath Rivesville's surface impoundment has produced nothing more than a lot of essentially clear water. It is for this reason that Assistant Director Patel will also be requested to reduce the water jetting requirement contained within the renewal permit of this closed landfill to no more frequently than once per permit cycle. Documentation and video of the clarity of this flushing are available upon request.

### Response to Notice of Violation

1. Section A.006 Discharge Limitations - Violated permitted discharge limitations at Outlet 006. Monongahela Power Company exceeded discharge limitations at Outlet 006 five (5) times from May 14, 2017 through May 14, 2019. See attached DMR Exceedance table.

Response: The referenced DMR Exceedance Table is provided as Attachment 1 of this response.

Response: As shown by the table provided on Page 14 of the report, provided herein as Attachment 1, the Permitted Average Monthly Total Recoverable Arsenic limitation for Outlet 006 is 0.01 mg/L. The reported Average Monthly for August 2017 was 0.011393 mg/L. It is true that no exceedance was indicated in the DMR Number of Exceedances block. The permit limit is expressed to two significant figures (decimal places). The DMR was reported showing the full six significant figures representing the level of precision of the lab's Method Detection Level (MDL) for this parameter and test method. Standard mathematical rounding conventions are that when expressing compliance with a limit of 0.01 a value of 0.011 rounds down to 0.01, which, being the limit, is a compliant value. Moreover, Item 17 of the WV DEP Environmental Enforcement NPDES Reporting Reference Manual advises users to "Round results to same significant figures as your permit limits." Allow it to be noted that there was a time when MP would have reported such a value as an exceedance - until being chastised in an agency inspection report for having reported "non-exceedances." That MP reports results to the precision of its MDLs is an inherent function of its electronic DMR production system - and the Number of Exceedances are always shown correctly.

Total Recoverable Aluminum exceedances were reported for the months of January and February 2018. Copies of the noncompliance letters for these months are provided as Attachment 2 and Attachment 3. The first compliance sample collected for January 2018 produced an elevated Aluminum result. Additional samples were obtained attempting to achieve the Average Monthly limit, but each sample became worse. The winter of 2017-2018 produced some very abnormal weather, the "Polar Vortex." At that time MP was investigating, but without conclusion, regarding a potential source or sources of the sudden Aluminum problem. This problem continued into February and a theory regarding its cause was presented within the Steps Taken to Reduce, Eliminate & Prevent Recurrence section of Attachment 3. To date, no further exceedances have occurred from Outlet 006.

2. Section A.MW106 Monitoring Well Requirements - Violated maximum daily limitation for Dissolved Arsenic. Monongahela Power Company exceeded maximum daily limitation for dissolved arsenic at MW106 four (4) times from May 14, 2017 through May 14, 2019. See attached DMR exceedance table.

Response: The referenced DMR exceedance table is provided as Attachment 4 of this response.

As described in an e-mail to the environmental inspector on May 15, 2019 (Attachment 5), an assessment of corrective measures (ACM) was initiated to address the stated arsenic limit exceedances in MW-106. The first step in performing an ACM is to characterize the nature and extent of the release as described in 33 CSR 1 §4.11.c.7. MP is currently in the process of defining the steps necessary to adequately delineate the extent of arsenic impacts and will provide a Work Plan documenting the proposed activities for Agency review within 60 days of the date of this letter.

3. Section C.2.h.1(1) - Within fourteen (14) days, place a notice in the operating record indicating which constituents have shown statistically significant changes from background levels and notify the Secretary that this notice was placed in the operating record. Monongahela Power Company failed to create and implement an operating record within fourteen (14) days after documenting a statistically significant change from background levels and notifying the Secretary of such.

Response: De Facto notification was provided by way of attaching a summary printout of the statistical analysis results from the Electric Power Research Institute (EPRI)'s Manages groundwater program to the semi-annual eDMR submittals in the ESS following the end of each semi-annual reporting period that fulfills the operating record requirement per §4.4.c.15.A.5. These statistical summary pages clearly identify any/all parameters displaying statistically significant changes from background levels. Additionally, for each reported parameter value greater than the applicable standard, the eDMR shows a value of one (1) exceedance.

Because the permit does not provide any other means to submit notifications, the ESS is the only established method to provide operating record notification that MP is aware of. It is unclear if there is a format other than the ESS submittals that should be used. Also, see CEI Narrative Item 2, above.

4. Section C.2.h.(4) - If the repeat sampling confirms that a statistically significant increase over background levels has occurred, the permittee must establish and implement a Phase II assessment monitoring program meeting the requirements of 33 CSR, Section 4.11.c within ninety (90) days of said confirmation. Monongahela Power Company failed to establish and implement a Phase II assessment monitoring program.

Response: There is no difference in the parameter monitoring list between Phase I Detection Monitoring and Phase II Assessment Monitoring for Class F CCR Landfills. The parameter list for Phase II Assessment Monitoring includes hazardous organic constituents that are not chemicals of concern at CCR sites and thus not necessary to monitor in this circumstance. A more complete explanation of this issue was discussed with the environmental inspector and subsequently described in an e-mail message provided as Attachment 6. Regardless, MP is proceeding directly to the ACM phase upon exceedance of the arsenic permit limit/ groundwater protection standard instead of unnecessarily performing the knowingly irrelevant sampling of organic constituents.

5. Section C.2.1. - The permittee shall not cause a statistically significant increase over the groundwater standards found in Title 47, Series 12, Requirements Governing Groundwater Standards. Monongahela Power Company caused a statistically significant increase of groundwater standards for Arsenic according to Title 47, Series 12, Requirements Governing Groundwater Standards.

Response: Although statistically significant increases of arsenic in MW-106 have occurred, it is MP's contention that all appropriate and required reporting has been performed. Furthermore, an ACM has been initiated to address the arsenic exceedances. The first step in performing an ACM is to characterize the nature and extent of the release as described in 33 CSR 1 §4.11.c.7. MP is currently in the process of scoping out the steps necessary to adequately delineate the extent of arsenic impacts and will provide a Work Plan documenting the proposed activities for Agency review within 60 days of the date of this letter.

6. Section C.2.1.(1) - Within fourteen (14) days, place a notice in the operating record indicating which constituents have shown statistically significant changes above groundwater standards found in Title 47, Series 12, Requirements Governing Groundwater Standards, and notify the Secretary that this notice was placed in the operating record. Monongahela Power Company failed to place a notice in the operating record within fourteen (14) days indicating which constituents (Arsenic) have shown a statistically significant change above groundwater standards in Title 47, Series 12, Requirements Governing Groundwater Standards and notify the Secretary.

Response: MP contends that notification of any parameters exceeding groundwater standards is provided in the Comments section of each semi-annual eDMR report filed within the ESS. Attachments 7a through 7d document this. Moreover, the biannual submission of the required statistical reports as attachments to the site's eDMR submittal further reinforces this multi-layered notification process. Also, see CEI Narrative Item 2, above.

Ms. Tonya Mather, Environmental Inspector Supervisor  
WV Department of Environmental Protection  
August 29, 2019  
Page 6

7. Section C.2.1(4) - If the repeating sampling confirms that a statistically significant increase above groundwater standards for the respective pollutant found in Title 47, Series 12, Requirements Governing Groundwater Standards, within ninety (90) days of a finding, the permittee must initiate an assessment of corrective measures in accordance with 33 CSR 1, Section 4.11.e. Monongahela Power Company failed to initiate an assessment of corrective measure in accordance with 33 CSR 1, Section 4.11.e within ninety (90) days of a finding.

Response: As described in an e-mail to the environmental inspector on May 15, 2019 (Attachment 5), an assessment of corrective measures (ACM) was initiated to address the stated arsenic limit exceedances in MW-106. The first step in performing an ACM is to characterize the nature and extent of the release as described in 33 CSR 1 §4.11.c.7. MP is currently in the process of scoping out the steps necessary to adequately delineate the extent of arsenic impacts and will provide a Work Plan documenting the proposed activities for Agency review within 60 days of the date of this letter. (A purchase order has been issued to Civil and Environmental Consultants, Inc. (CEC) to perform this work):

8. Section C.2.1(7) - In accordance with 33 CSR 1, Section 4.11.g, the permittee shall implement the corrective action program based on the schedule required by 33 CSR 1, Sections 4.11.f.4 and 4.11.g. Monongahela Power Company failed to implement a corrective action program in accordance with 33 CSR 1, Section 4.11.g based on the schedule required by 33 CSR a, Sections 4.11.f.4 and 4.11.g.

Response: As stated in Item 7, the ACM has already been initiated. The schedule required by 33CSR 1 §4.11.f.4 will be provided as appropriate to the Agency upon completion of the ACM and Selection of Remedy.

Should you have any further questions regarding these matters please contact William Cannon at (724) 838-6018 or [wcannon@firstenergycorp.com](mailto:wcannon@firstenergycorp.com).

Sincerely,



Douglas S. Hartman  
Manager,  
Governance, Permitting &  
Environmental Services.

Enclosures

c: Jason Ely - WVDEP, Fairmont  
Cody Howdyshell - WVDEP, Fairmont  
Yogesh Patel - WVDEP, Charleston  
Brad Wright - WVDEP, Charleston

WV0050776 Outlet 006 DMR Exceedances - AVG. MONTHLY - 2nd Quarter 2017 through 1st Quarter 2019						Degree of non-compliance		
Date	Parameter	Units	Permitted avg. monthly	Reported avg. monthly	Exceedance	Min	Mod	Max
8/31/2017	Total Recoverable Arsenic	mg/L	0.01	0.011393	14%	X		
1/31/2018	Total Recoverable Aluminum	mg/L	0.29	0.9927	242%		X	
2/28/2018	Total Recoverable Aluminum	mg/L	0.29	1.4417	397%			X

Two (2) maximum daily violations were observed for Outlet 006 both for total recoverable aluminum.

Outlet 006 DMR Exceedances - MAX. DAILY - 2nd Quarter 2017 through 1st Quarter 2019						Degree of non-compliance		
Date	Parameter	Units	Permitted Max. Daily	Reported Max. Daily	Exceedance	Min	Mod	Max
1/31/2018	Total Recoverable Aluminum	mg/L	0.8	2.29	186%		X	
2/28/2018	Total Recoverable Aluminum	mg/L	0.8	2.04	155%		X	

The above maximum daily violations were not reported to the Agency's designated spill alert telephone number. However, the permittee did provide a written submission within five (5) days.

**Rating: Unsatisfactory**



**CERTIFIED MAIL**

7016 2140 0001 1037 4252

February 12, 2018

Mr. Scott Mandirola, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Mr. Mandirola:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Maximum Daily and Average Monthly Total Recoverable Aluminum limits of 0.8 and 0.29 mg/L, respectively, during January 2018.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on January 16 (0.431 mg/L, flow of 35 gpm), January 23 (0.257 mg/L, flow of 25 gpm) and January 24, 2018 (2.29 mg/L, flow of 20 gpm) resulting in a Maximum Daily Total Recoverable Aluminum value of 2.29 mg/L and an Average Monthly value of 0.993 mg/L.

Cause of Noncompliance

The CCR Site closure was completed during 2014. The reason for these elevated Total Recoverable Aluminum results remains uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated and there is no activity. The site has been thoroughly inspected with no erosional or other issues identified. The site sedimentation basin was dredged just prior to site closure so sediment accumulation remains minimal. The basin's discharge structure stop logs were adjusted during 2017 to increase and optimize the basin's retention time.

Continued monitoring is currently proposed.

Length of Noncompliance

Uncertain. A sample collected December 5, 2017 had a compliant Total Recoverable Aluminum result of 0.0436 mg/L. As of this writing results for the February sampling are not yet available.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Douglas S. Hartman, Manager  
Environmental Energy Delivery  
& Field Operations

c: Justin Painter - WVDEP

**CERTIFIED MAIL**

7016 2140 0001 1037 1466

March 16, 2018

Mr. Scott Mandirola, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Monongahela Power Company  
Rivesville Power Station  
Marion County - Rivesville, WV  
NPDES Permit No. WV0050776

Dear Mr. Mandirola:

Pursuant to the reporting requirements contained in the subject permit, Monongahela Power Company is notifying the Division of Water and Waste Management that analytical results using EPA approved methods indicate that the discharge from the 006 Sedimentation Pond exceeded its Maximum Daily and Average Monthly Total Recoverable Aluminum limits of 0.8 and 0.29 mg/L, respectively, during February 2018.

Description of Discharge (Outlet 006)

Discharge from the Sedimentation Pond at Rivesville's closed coal combustion residue disposal site (Outlet 006): Total Recoverable Aluminum samples were obtained on February 19 (0.535 mg/L, flow of 100 gpm), February 26 (2.04 mg/L, flow of 75 gpm) and February 27, 2018 (1.75 mg/L, flow of 60 gpm) resulting two exceedances of the Maximum Daily Total Recoverable Aluminum limit and one exceedance of the Average Monthly Total Recoverable Aluminum limit (1.4417 mg/L).

Cause of Noncompliance

The CCR Site closure was completed during 2014. The reason for these elevated Total Recoverable Aluminum results remains uncertain.

Steps Taken to Reduce, Eliminate & Prevent Recurrence

The site is closed, fully vegetated, and there is no activity. The site has been thoroughly inspected with no erosional or other issues identified. The site sedimentation basin was dredged just prior to site closure so sediment accumulation remains minimal. The basin's discharge structure stop logs were adjusted during 2017 to increase and optimize the basin's retention time. Upon receipt of the above compliance results, investigative sampling was performed at each of the influent sources attempting to isolate a definitive source. The influent to the head of the site's sedimentation pond is fairly non-turbulent. The pond is dimictic, that is, turning over fall and spring. Following an extended period of cold weather, there would be essentially no thermocline in the pond's waters, that is, they are of uniform temperature throughout the water column. The sampling in February occurred in conjunction with a period of unusually warm and rainy weather. This combination of relatively warm air and rainfall temperatures can set up a relatively warm, thin, and light epilimnion (surface layer) atop a much colder, denser hypolimnion (bottom layer). Monongahela Power theorizes the presence of a condition wherein pond influent essentially shortcuts from the inflow channel to the discharge structure within this relatively thin, warm epilimnion, thus effectively reducing the pond's retention time such that the influent Aluminum was denied sufficient time to effectively complex and precipitate.

Continued monitoring is currently proposed.

Mr. Scott Mandirola, Director  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
March 16, 2018  
Page 2

Length of Noncompliance

Uncertain. A sample collected December 5, 2017 had a compliant Total Recoverable Aluminum result of 0.0436 mg/L. The Aluminum results reported for January also exceeded prescribed limits as previously reported. As of this writing, results for the March sampling event are not yet available.

Should you have any questions, please contact William E. Cannon at (724) 838-6018.

Sincerely,



Douglas S. Hartman, Manager  
Environmental Energy Delivery  
& Field Operations

c: Justin Painter - WVDEP

**ATTACHMENT 4**

**Groundwater**

Permittee has submitted 1/6 months (semiannual) discharge monitoring reports for the previous four (4) monitoring periods for MW101, MW103, MW104, MW105, and MW106. Dissolved arsenic was exceeded for the four (4) previous monitoring periods at MW106 see below (Table 1: MW 106 Maximum Daily Exceedance Table).

Table 1: MW106 Maximum Daily Exceedance Table.

WV0050776 MW106 DMR Exceedances - MAX DAILY - 1st Half 2017 through Second Half 2018						Degree of non-compliance		
Date	Parameter	Units	Permitted max daily	Reported max daily	% Exceedance	Min	Mod	Maj
9/30/2017	Dissolved Arsenic	mg/L	0.01	0.062436	524%			X
3/31/2018	Dissolved Arsenic	mg/L	0.01	0.074582	646%			X
9/30/2018	Dissolved Arsenic	mg/L	0.01	0.044693	347%			X
3/31/2019	Dissolved Arsenic	mg/L	0.01	0.049217	392%			X

These analytical values for the monitored constituent (arsenic) were determined to be above the groundwater standards listed in Title 47, Series 12 of the West Virginia Code of State Rules.  
**Rating: Unsatisfactory**

**Newbaker IV, Edward J**

**From:** Newbaker IV, Edward J  
**Sent:** Wednesday, May 15, 2019 1:03 PM  
**To:** Cody A. Howdysshell (cody.a.howdysshell@wv.gov)  
**Cc:** Shipman, Michael J; Cannon, William E; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov)  
**Subject:** RE: Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items  
**Attachments:** Riv MW106 As Resample Results.pdf

Cody,

As requested during our conf call yesterday, please find attached re-sampling results for Rivesville LF MW-106 confirming that arsenic levels exceed the permit limit of 10 ug/l. As a result, a groundwater assessment will be performed to determine the cause and extent of arsenic impacts and an assessment of corrective measures will be initiated in accordance with 33CSR1 §4.11.e, as appropriate.

Also, in response to your question concerning statistical analysis, interwell and intrawell prediction interval methods are used at Rivesville.

Please let me know if you need any additional info or if you have any other questions.

Thanks,

Jay Newbaker, P.G. | Senior Scientist  
Office: 724-838-6574 | Cell: 724-205-8743  
E-Mail: enewbaker\_iv@firstenergycorp.com

**FirstEnergy**

Environmental Department | Room A-301  
800 Cabin Hill Drive | Greensburg, PA 15601

**From:** Cannon, William E  
**Sent:** Wednesday, May 15, 2019 9:32 AM  
**To:** Cody A. Howdysshell (cody.a.howdysshell@wv.gov) <cody.a.howdysshell@wv.gov>; Jason Ely - WVDEP Fairmont (jason.m.ely@wv.gov) <jason.m.ely@wv.gov>  
**Cc:** Shipman, Michael J <mshipman@firstenergycorp.com>; Newbaker IV, Edward J <enewbaker\_iv@firstenergycorp.com>  
**Subject:** Rivesville P.S. Landfill Inspection of May 14, 2019 - Requested Items

Cody,

Attached, in accordance with requests made during your May 14, 2019 inspection of the Rivesville Power Station Closed CCB Landfill, please find two files, these being of completed Landfill Inspection Forms and Facility Maintenance Logs. As discussed, these files contain a representative sampling of each completed form from each of the last three years.

As to the other discussed items, we are currently assembling and verifying relevant information which we anticipate supplying in response to your inspection report.

William E. Cannon

# ATTACHMENT 6

**Newbaker IV, Edward J**

**From:** Newbaker IV, Edward J  
**Sent:** Tuesday, July 9, 2019 11:17 AM  
**To:** 'Cody A. Howdyshell'  
**Cc:** Cannon, William E  
**Subject:** Rivesville GW Monitoring  
**Attachments:** 33CSR1 Appendix I and II Lists.pdf; Rivesville MW-106 Stat March 2019.pdf

Cody,

As we discussed on Friday, I'm providing an explanation of groundwater monitoring program phases at the Rivesville coal combustion by-product (CCB) landfill as described in the Solid Waste Management Rule (33CSR1) and implemented under NPDES/Solid Waste Permit WV0050776. In short, Phase I and Phase II groundwater monitoring at CCB sites both include the same parameters, so there is effectively no difference between them. The following description of the current status of the Rivesville LF groundwater monitoring program provides the supporting details.

## Phase I Groundwater Monitoring

In accordance with 33CSR1 §4.11.b.2, Phase I Detection Monitoring for coal combustion by-product (CCB) facilities must include sampling and analysis of some combination of inorganic parameters that are reasonably expected to be present at a site, with the specific parameters to be listed in the permit. Specifically, §4.11.b.2 states the following:

*For coal combustion by-product facilities, the monitoring parameters must consist of some combination of the following: pH, temperature, alkalinity, hardness, total dissolved solids, total suspended solids, specific conductance, total organic carbon, calcium, magnesium, sodium, iron, manganese, aluminum, chloride, sulfate, arsenic, copper, nickel, selenium, zinc, barium, mercury, total and hexavalent chromium, lead, boron, molybdenum, cadmium, and vanadium.*

Permit WV0050776 (effective 4/1/2015) requires that a subset of the above parameters be analyzed in groundwater samples for the followings:

Indicators	Inorganics/Metals
TSS	Cr
TDS	Al
pH	Ba
SP Cond	Cu
Temp	Fe
	Pb
	Mn
	SO <sub>4</sub>
	As
	Cd
	Se
	Hg
	B
	Zn
	Ni
	Tl

	Be
	Sb

Note that no organic parameters (VOCs, SVOCs, pesticides, etc) are considered constituents of concern at CCB landfills because, even if originally present in coal, they would be destroyed in the boiler during the process of generating power before being disposed in a landfill. As a result, the organic parameters listed in Appendix I Group B (see attached) of the Solid Waste Management Rule are not required to be analyzed.

#### Statistical Analysis of Phase I Parameters

§4.11.b.4.A.- D. requires statistical analysis of Phase I results to determine whether there are any statistically significant increases (SSIs) above background levels. If repeat sampling confirms that an SSI has occurred, a Phase II assessment monitoring program must be established. In this case, Rivesville LF MW-106 arsenic levels in both the latest routine semi-annual sampling event (49.22 ug/l) and re-sampling event (43.98 ug/l) showed SSIs above background levels (see attached stat analysis). As a result, groundwater sampling progresses to Phase II Assessment Monitoring (unless an alternate source demonstration is completed).

#### Phase II Groundwater Monitoring

§4.11.c.2 indicates that a Phase II monitoring program include the list of parameters identified in Appendix II of the SW Management Rule (see attached). While the App II list includes an expanded list of organic compounds, the inorganic compounds in App II include the same ones listed in App I Group A. Therefore, because organic compounds are not constituents of concern, Phase I and Phase II groundwater monitoring are effectively the same thing at CCB sites.

#### Corrective Measures

Because Phase I and Phase II groundwater monitoring effectively take place simultaneously at CCB landfills, the next step in the process is an assessment of corrective measures when a parameter exceeds a groundwater protection standard or permit limit. As indicated above, the two most recent sampling events at Rivesville MW-106 exceed the arsenic permit limit and Federal MCL of 10 ug/l at a statistically significant level. In accordance with §4.11.e.1, FE has initiated an assessment of corrective measures to address the arsenic permit limit exceedances at Rivesville MW-106.

Please let me know if you have any questions or if you would like to discuss in greater detail.

Thanks,

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**APPENDIX I  
CONSTITUENTS FOR PHASE I DETECTION MONITORING<sup>1</sup>**

**GROUP A:****Inorganic Constituents:**

<b>COMMON NAME<sup>2</sup></b>	<b>CAS RN<sup>3</sup></b>
Acidity	(Total)
Aluminum	(Total)
Alkalinity	(Total)
Ammonia Nitrogen	(Total)
Antimony	(Total)
Arsenic	(Total)
Barium	(Total)
Beryllium	(Total)
Bicarbonates	(mg/l)
Boron	(Total)
Cadmium	(Total)
Chlorides	(Total)
Chromium	(Total)
Cobalt	(Total)
COD	(mg/l)
Copper	(Total)
Dissolved Manganese	(Total)
Iron	(Total)
Lead	(Total)
Magnesium	(Total)
Mercury	(Total)
Molybdenum	(Total)
Nickel	(Total)
Nitrate	(Total)
pH	(Std. Units)
Potassium	(Total)
Selenium	(Total)
Silver	(Total)
Sodium	(Total)
Specific Conductance	(µmhos/cm)
Sulfate	(Total)
TDS	(mg/l)
Thallium	(Total)
TOC	(mg/l)
Total Phenolic Materials	(Total)
TSS	(Total)
Turbidity	(Total)
Vanadium	(Total)
Zinc	(Total)

In addition to the above, the following parameters should be analyzed:  
Temperature, (BOD-5day), fluoride and calcium.

**GROUP B:**



**Organic Constituents:**

<b>COMMON NAME<sup>2</sup></b>	<b>CAS RN<sup>3</sup></b>
Acetone	67-64-1
Acrylonitrile	107-13-1
Benzene	71-43-2
Bromochloromethane	74-97-5
Bromodichloromethane	75-27-4
Bromoform; Tribromomethane	75-25-2
Carbon disulfide	75-15-0
Carbon tetrachloride	56-23-5
Chlorobenzene	108-90-7
Chloroethane; Ethyl chloride	75-00-3
Chloroform; Trichloromethane	67-66-3
Dibromochloromethane; Chlorodibromomethane	124-48-1
1,2-Dibromo-3-chloropropane; DBCP	96-12-8
1,2-Dibromoethane; Ethylene dibromide; EDB	106-93-4
o-Dichlorobenzene; 1,2-Dichlorobenzene	95-50-1
p-Dichlorobenzene; 1,4-Dichlorobenzene	106-46-7
trans-1,4-Dichloro-2-butene	110-57-6
1,1-Dichloroethane; Ethylidene chloride	75-34-3
1,2-Dichloroethane; Ethylene dichloride	107-06-2
1,1-Dichloroethylene; 1,1-Dichloroethene;	
Vinylidene chloride	75-35-4
cis-1,2-Dichloroethylene; cis-1,2-	
Dichloroethene	156-59-2
trans-1,2-Dichloroethylene; trans-1,2-	
Dichloroethene	156-60-5
1,2-Dichloropropane; Propylene dichloride	78-87-5
cis-1,3-Dichloropropene	10061-01-5
trans-1,3-Dichloropropene	10061-02-6
Ethylbenzene	100-41-4
2-Hexanone; Methyl butyl ketone	591-78-6
Methyl bromide; Bromomethane	74-83-9
Methyl chloride; Chloromethane	74-87-3
Methylene bromide; Dibromomethane	74-95-3
Methylene chloride; Dichloromethane	75-09-2
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3
Methyl iodide; Iodomethane	74-88-4
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1
Styrene	100-42-5
1,1,1,2-Tetrachloroethane	630-20-6
1,1,2,2-Tetrachloroethane	79-34-5
Tetrachloroethylene; Perchloroethylene	127-18-4
Toluene	108-88-3
1,1,1-Trichloroethane; Methylchloroform	71-55-6
1,1,2-Trichloroethane	79-00-5
Trichloroethylene; Trichloroethene	79-01-6
Trichlorofluoromethane; CFC-11	75-69-4
1,2,3-Trichloropropane	96-18-4
Vinyl acetate	108-05-4
Vinyl chloride	75-01-4

Xylenes

1330-20-7

1. This list contains volatile organics for which possible analytical procedures provided in EPA Report SW-846 "Test Methods for Evaluating Solid Waste," third edition, November 1986, as revised December 1987, includes Method 8260 and 8011; and metals for which SW-846 provides either Method 6010 or a method from the 7000 series of methods.

2. Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

3. Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.

**APPENDIX II  
PHASE II ASSESSMENT MONITORING  
HAZARDOUS INORGANIC AND ORGANIC CONSTITUENTS<sup>1</sup>**

<b>COMMON NAME<sup>2</sup></b>	<b>CAS RN<sup>3</sup></b>	<b>CHEMICAL ABSTRACTS SERVICE INDEX NAME<sup>4</sup></b>	<b>SUGGESTED METHODS<sup>5</sup></b>	<b>PQL UG/L)<sup>6</sup></b>
Acenaphthene	83-32-9	Acenaphthylene,1,2-dihydro-.....	8100.....	200
		.....	8270.....	10
Acenaphthylene	208-96-8	Acenaphthylene.....	8100.....	200
			8270.....	10
Acetone	67-64-1	2-Propanone	8260	100
Acetonitrile; Methyl cyanide	75-05-8	Acetonitrile	8015	100
Acetophenone	98-86-2	Ethanone, 1-phenyl	8270	10
2-Acetylamino fluorene;. 2-AAF	53-96-3	Acetamide,N-9H-fluoren-2-yl-	8270	20
Acrolein	107-02-8	2-Propenal	8030	5
			8260	100
Acrylonitrile	107-13-1	2-Propenenitrile	8030	5
			8260	200
Aldrin	309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-	8080	0.05
		1,4,4a,5,8,8a-hexahydro-	8270	10
		(1a,4a,4aB,5a,8a,8aB)-		
Allyl chloride	107-05-1	1-Propene, 3-chloro-	8010	5
			8260	10
4-Aminobiphenyl	92-67-1	{1,1 <sup>1</sup> -Biphenyl}-4-amine	8270	20
Anthracene	120-12-7	Anthracene	8100	200
			8270	10
Antimony	(Total)	Antimony	6010	300
			7040	2000
			7041	30
Arsenic	(Total)	Arsenic	6010	500
			7060	10
			7061	20

Barium	(Total)	Barium	6010	20
Benzene	71-43-2	Benzene	7080	1000
			8020	2
			8021	0.1
Benzo(a)anthracene;Benzathracene	56-55-3	Benz(a)anthracene	8260	5
			8100	200
Benzo(b)fluoranthene	205-99-2	Benz(e)acephenanthrylene	8270	10
			8100	200
Benzo(k)fluoranthene	207-08-9	Benzo(k)fluoranthene	8270	10
			8100	200
Benzo(ghi)perylene	191-24-2	Benzo(ghi)perylene	8270	10
			8100	200
Benzo(a)pyrene	50-32-8	Benzo(a)pyrene	8270	10
			8100	200
Benzyl alcohol	100-51-6	Benzenemethanol	8270	10
Beryllium	(Total)	Beryllium	8270	20
			6010	3
			7090	50
alpha-BHC	319-84-6	Cyclohexane, 1,2,3,4,5,6-	7091	2
		hexachloro-, (1a,2a,3B,4a,5B,6B)	8080	0.05
beta-BHC	319-85-7	Cyclohexane, 1,2,3,4,5,6-	8270	10
		hexachloro-, (1a,2a,3B,4a,5B,6B)	8080	0.05
delta-BHC	319-86-8	Cyclohexane, 1,2,3,4,5,6-	8270	20
		hexachloro-, (1a,2a,3a,4B,5a,6B)	8080	0.1
gamma-BHC;Lindane	58-89-9	Cyclohexane, 1,2,3,4,5,6-	8270	20
		hexachloro-, (1a,2a,3B,4a, 5a,6B)	8080	0.05
Bis(2-chloroethoxy)methane	111-91-1	Ethane, 1,1 <sup>1</sup>	8270	20

-{methylenebis	8110	5		
Bis(2-chloroethyl)ether;	111-44-4	(oxy))bis{2-chloro	8270	10
Dichlor-oethyl ether		Ethane, 1,1-oxybis{2-chloro-	8110	3
Bis(2-chloro 1-methylethyl)	108-60-1	Propane, 2,2-oxybis{ 1-chloro-	8270	10
ether; 2,2 <sup>1</sup> -Dichlorodiiso-			8110	10
propyl ether; DCIP See Note 7			8270	10
Bis(2-ethylhexyl)phthalate	117-81-7	1,2-Benzenedicarboxylic acid,	8060	20
		bis(2-ethylhexyl) ester		
Bromochloromethane;	74-97-5	Methane, bromochloro-	8021	0.1
Chloro-bromomethane			8260	5
Bromodichloromethane;	75-27-4	Methane, bromodichloro-	8010	1
Dibromochloromethane			8021	0.2
			8260	5
Bromoform; Tribromomethane	75-25-2	Methane, tribromo	8010	2
			8021	15
			8260	5
4-Bromophenyl.phenyl ether	101-55-3	Benzene, 1-bromo-4-phenoxy	8110	25
			8270	10
Butyl benzyl phthalate; Benzyl	85-68-7	1,2-Benzenedicarboxylic acid,	8060	5
butyl phthalate		butyl phenylmethyl ester	8270	10
Cadmium	(Total)	Cadmium	6010	40
			7130	50
Carbon disulfide	75-15-0	Carbon disulfide	7131	1
Carbon tetrachloride	56-23-5	Methane, tetrachloro-	8260	100
			8010	1
			8021	0.1
Chlordane	See Note 8	4,7-Methano-1H-indene,	8260	10
		1,2,4,5,6,7,8,8-octachloro-	8080	0.1
		2,3,3a,4,7,7a-hexahydro-	8270	50
p-Chloroaniline	106-47-8	Benzenamine, 4-chloro	8270	20
Chlorobenzene	108-90-7	Benzene, chloro-	8010	2
			8020	2
			8021	0.1
Chlorobenzilate	510-15-6	Benzeneacetic acid, 4-chloro-a-	8260	5
			8270	10

p-Chloro-m-cresol; 4-Chloro-3-methylphenol	59-50-7	(4-chlorophenyl)-a- hydroxyethyl ester Phenol, 4-chloro-3-methyl-	8040	5
Chloroethane;Ethyl chloride	75-00-3	Ethane, chloro-	8270	20
			8010	5
			8021	1
Chloroform,Trichloromethane	67-66-3	Methane, trichloro-	8260	10
			8010	0.5
			8021	0.2
			8260	5
2-Chloronaphthalene	91-58-7	Naphthalene, 2-chloro-	8120	10
2-Chlorophenol	95-57-8	Phenol, 2-chloro-	8270	10
			8040	5
4-Chlorophenyl phenyl ether	7005-72-3	Benzene, 1-chloro-4-phenoxy-	8270	10
			8110	40
Chloroprene	126-99-8	1,3-Butadiene, 2-chloro-	8270	10
			8010	50
Chromium	(Total)	Chromium	8260	20
			6010	70
			7190	500
Chrysene	218-01-9	Chrysene	7191	10
			8100	200
Cobalt	(Total)	Cobalt	8270	10
			6010	70
			7200	500
Copper	(Total)	Copper	7201	10
			6010	60
			7210	200
			7211	10
m-Cresol; 3-methylphenol	108-39-4	Phenol, 3-methyl	8270	10
o-Cresol; 2-methylphenol	95-48-7	Phenol, 2-methyl	8270	10
p-Cresol; 4-methylphenol	106-44-5	Phenol, 4-methyl	8270	10
Cyanide	57-12-5	Cyanide	9010	10
2,4-D; 2,4-Dichloro- phenoxyacetic acid	94-75-7	Acetic acid (2,4-dichloro phenoxy)	9010	200
			8150	10
4,4'-DDD	72-54-8	Benzene 1,1'-(2,2-dichloro- ethylidene)bis(4-chloro-	8080	0.1
			8270	10

4,4'-DDE	72-55-9	Benzene 1,1'-(dichloro-ethylenylidene)bis(4-chloro-	8080	0.05
4,4'-DDT	50-29-3	Benzene 1,1'-(2,2,2-trichloro-ethylenylidene)bis(4-chloro-)	8270	10
Diallate	2303-16-4	Carbanthioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl) ester	8080	0.1
Dibenz[a,h]anthracene	53-70-3	Dibenz[a,h]anthracene	8270	10
Dibenzofuran	132-64-9	Dibenzofuran	8100	200
Dibromochloromethane; Chlorodibromomethane	124-48-1	Methane, dibromochloro-	8270	10
1,2-Dibromo-3-chloropropane;DBCP	96-12-8	Propane, 1,2-dibromo-3-chloro-	8010	1
1,2-Dibromoethane; Ethylene dibromide;EDB	106-93-4	Ethane, 1,2-dibromo	8260	0.3
Di-n-butyl phthalate	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	8011	5
o-Dichlorobenzene; 1,2-Dichlorobenzene	95-50-1	Benzene, 1,2-dichloro-	8021	0.1
m-Dichlorobenzene; 1,3-Dichlorobenzene	541-73-1	Benzene, 1,3-Dichloro-	8260	10
p-Dichlorobenzene; 1,4-Dichlorobenzene	106-46-7	Benzene, 1,4-Dichloro-	8270	5
			8010	10
			8020	5
			8021	0.2
			8120	10
			8260	10
			8270	5
			8010	10
			8020	5
			8021	5
			8120	0.2
			8260	10
			8270	5
			8010	10
			8020	2
			8021	5
				0.1

			8120	15
			8260	5
3,3 <sup>1</sup> -Dichlorobenzidine	91-94-1	{1,1 <sup>1</sup> -Biphenyl}-4,4 <sup>1</sup> -diamine,	8270	10
		3,3 <sup>1</sup> -dichloro-	8270	20
trans-1,4-Dichloro-2-butene	110-57-6	2-Butene, 1,4-dichlor-(E)	8260	100
Dichlorodifluoromethane; CFC 12	75-71-8	Methane, dichlorodifluoro	8021	0.5
1,1-Dichloroethane; Ethylidene chloride	75-34-3	Ethane, 1,1-dichloro	8260	5
			8010	1
			8021	0.5
1,2-Dichloroethane; Ethylene dichloride	107-06-2	Ethane, 1,1-dichloro	8260	5
			8010	0.5
			8021	0.3
1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride	75-35-4	Ethene, 1,1-dichloro	8260	5
			8010	1
			8021	0.5
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethane	156-59-2	Ethene, 1,2-dichloro-,(Z)	8260	5
			8021	0.2
trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	156-60-5	Ethene, 1,2-dichloro-,(E)	8260	5
			8010	1
			8021	0.5
2,4-Dichlorophenol	120-83-2	Phenol, 2,4-dichloro-	8260	5
			8040	5
2,6-Dichlorophenol	87-65-0	Phenol, 2,6-dichloro-	8270	10
1,2-Dichloropropane; Propylene dichloride	78-87-5	Propane, 1,2-dichloro-	8270	10
			8010	0.5
			8021	0.05
1,3-Dichloropropane; Trimethylene dichloride	142-28-9	Propane, 1,3-dichloro-	8260	5
			8021	0.3
2,2-Dichloropropane; Isopropylidene chloride	594-20-7	Propane, 2,2-dichloro-	8260	5
			8021	0.5
1,1-Dichloropropene	563-58-6	1-Propene, 1,1-dichloro-	8260	15
			8021	0.2
cis-1,3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-(Z)	8260	5
			8010	20
			8260	10



trans-1,3-Dichloro-propene	10061-02-6	1-Propene, 1,3-dichloro-(E)	8010	5
Dieldrin	60-57-1	2,7:3,6-Dimethanonaphth {2,3-b}oxirene, 3,4,5,6,9,9-hexa, chloro-1a,2,2a,3,6,6a,7,7a-octa- hydro-,(1aa,2B,2aa,3B,6B,6aa,7B,7aa)	8260 8080 8270	10 0.05 10
Diethyl phthalate	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester	8060 8270	5 10
0,0-Diethyl 0-2-pyrazinyl phosphorothioate; Thionazin Dimethoate	297-97-2	Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester	8141 8270	5 20
	60-51-5	Phosphorodithioic acid, 0,0-diethyl,S-{2-(methylamino)-2-oxoethyl} ester	8141 8270	3 20
p-(Dimethylamino)azobenzene	60-11-7	Benzenamine,N,N-dimethyl-4-(phenylazo)	8270	10
7,12-Dimethylbenz{a}anthracene-3,3-Dimethylbenzidine-	57-97-6 119-93-7	Benz{a}anthracene, 7,12-dimethyl-{1,1Biphenyl}-4,4-diamine, 3,3-dimethyl-	8270 8270	10 10
2,4-Dimethylphenol; m-Xylenol	105-67-9	Phenol, 2,4-dimethyl	8040 8270	5 10
Dimethyl phthalate	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester	8060 8270	5 10
m-Dinitrobenzene	99-65-0	Benzene, 1,3-dinitro-	8270	20
4,6-Dinitro-o-cresol	534-52-1	Phenol, 2-methyl-4,6-dinitro	8040 8270	150 50
4,6-Dinitro-2-methylphenol			8040	150
2,4-Dinitrophenol;	51-28-5	Phenol, 2,4-dinitro	8270 8040	50 150
2,4-Dinitroluene	121-14-2	Benzene, 1-methyl-2,4-dinitro-	8270 8090	50 0.2
2,6-Dinitrotoluene	606-20-2	Benzene, 2-methyl-1,3-dinitro-	8270 8090	10 0.1
Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	8270 8150 8270	10 1 20
Di-n-octyl phthalate	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester	8060 8270	30 10

Diphenylamine Disulfoton	122-39-4	Benezenamine, N-phenyl-	8270	10
	298-04-4	Phosphorodithioic acid, 0,0-diethyl S-{2-(ethylthio)ethyl}.ester	8140	2
			8141	0.5
Endosulfan I	959-98-8	6,9-Methano-2,4,3-benzodiox- athiepin; 6,7,8,9,10,10-hexa- chloro 1,5,5a,6,9,9a-hexahydro, 3-oxide	8270	10
			8080	0.1
			8270	20
Endosulfan II	33213-65-9	6,9-Methano-2,4,3-benzodiox- athiepin; 6,7,8,9,10,10-hexa- chloro 1,5,5a,6,9,9a-hexa-hydro, 3-oxide, (3a,5aa,6B,9B,9aa)-	8080	0.05
			8270	20
Endosulfan sulfate	1031-07-8	6,9-Methano-2,4,3-benzodiox- athiepin; 6,7,8,9,10,10-hex- achloro 1,5,5a,6,9,9a-hexa- hydro, 3,3-dioxide.	8080	0.5
			8270	10
Endrin	72-20-8	2,7:3,6-Dimethanonaphth{2,3-b} oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a- octahydro-, (1aa,2B,2aB,3a,6a,6aB,7B,7aa)-	8080	0.1
			8270	20
Endrin aldehyde	7421-93-4	1,2,4-Methenocyclopenta{cd} pentalene-5- carboxaldehyde, 2,2a,3,3,4,7-hexachlorodec ahydro-, (1a,2B,2aB,4B,4aB,5B,6aB,6bB,7R)	8080	0.2
			8270	10
Ethylbenzene	100-41-4	Benzene, ethyl-	8020	2
			8221	0.05
			8260	5
Ethyl methacrylate	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester	8015	5
			8260	10
			8270	10
Ethyl methanesulfonate Famphur	62-50-0	Methanesulfonic acid, ethylester	8270	20
	52-85-7	Phosphorothioic acid, 0- [4-{{(dimethylamino)sulfonyl} phenyl} 0,0-dimethyl ester	8270	20
Fluoranthene	206-44-0	Fluoranthene	8100	200
Fluorene	86-73-7	9-H-Fluorene	8270	10
			8100	200

Heptachlor	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7, 8,8-heptachloro-3a,4,7, 7a-tetrahydro-	8270	10
			8080	0.05
			8270	10
Heptachlor epoxide	1024-57-3	2,5-Methano-2H-indeno{1,2-b} oxirene,2,3,4,5,6,7,7-hepta chloro-1a,1b;5,5a,6,2,2, hexahydro-(1aa,1bB,2a,5a, 5aB,6B,6aa)	8080	1
			8270	10
Hexachlorobenzene	118-74-1	Benzene, hexachloro	8120	0.5
Hexachlorobutadiene	87-68-3	1,3-Butadiene, 1,1,2,3,4, 4-hexachloro-	8270	10
			8021	0.5
			8120	5
			8260	10
			8270	10
Hexachlorocyclopentadiene	77-47-4	1,3-Cyclopentadiene, 1,2,3, 4,5, 5-hexachloro-	8120	5
			8270	10
			8270	10
Hexachloroethane	67-72-1	Ethane, hexachloro-	8120	10
			8260	0.5
			8270	10
			8270	10
			8260	50
Hexachloropropene	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-	8270	10
			8270	10
2-Hexanone; Methyl butyl ketone	591-78-6	2-Hexanone	8260	10
Indeno(1,2,3-cd)pyrene	193-39-5	Indeno(1,2,3-cd)pyrene	8100	200
Isobutyl alcohol	78-83-1	1-Propanol, 2-methyl-	8270	10
			8015	50
Isodrin	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro- 1,4, 4a,5,8,8a hexahydro- (1a,4a, 4aB,5B,8B,8aB)-	8240	100
			8270	20
			8260	10
Isophorone	78-59-1	2-Cyclohexen-1-one,3,5,5 trimethyl	8090	60
Isosafrole	120-58-1	1,3-Benzodioxole, 5-(1-pro-penyl)	8270	10
Kepone	143-50-0	1,3,4-Metheno-2H-cyclobuta{cd} pentalen-2-one,1,1a,3,3a,4,5,5, 5a,5b, 6-decachlorooctahydro-	8270	10
			8270	20

Lead	(Total)	Lead		
Mercury	(Total)	Mercury		6010
Methacrylonitrile	126-98-7	2-Propenenitrile, 2-methyl-		7420
Methacrylene	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N-2- <i>pridinyl</i> -N1/2- <i>thienyl</i> (methyl)		7421
Methoxychlor	72-43-5	Benzene, 1,1-(2,2,2-trichloroethylidene) bis(4-methoxy-		7470
Methyl bromide;	74-83-9	Methane, bromo-		8015
Bromomethane	74-87-3	Methane, chloro-		8260
Methyl chloride;	56-49-5	Benzoflaccanthylene, 1,2		8270
Chloromethane	78-93-3	dihydro-3-methyl-		8080
3-Methylchololan threne	74-88-4	2-Butanone		8270
Methyl ethyl.ketone; MEK;	80-62-6	Methane, iodo-		8015
2-Butanone	66-27-3	2-Propenoic acid, 2-methyl-		8260
Methyl iodide;Iodomethane	91-57-6	ester		8010
Methyl methacrylate	298-00-0	Methanesulfonic acid, methyl		8260
Methyl methanesulfonate	dimethyl 0-(4-nitrophenyl)ester	ester		8270
2-Methylnaphthalene	108-10-1	Naphthalene, 2-methyl-		8140
Methyl parathion;	74-95-3	Phosphorothioic acid, 0,0-		8141
Parathion methyl				8270
4-Methyl-2-pentanone;-		2-Pentanone, 4-methyl		8015
Methyl isobutyl ketone				8260
Methylene bromide;		Methane, dibromo-		8010
Dibromomethane				8021
Methylene chloride;	75-09-2	Methane, dichloro-		8260
Dichloromethane				8010
Naphthalene	91-20-3	Naphthalene		8021

			8100	.200
			8260	5
1,4-Naphthoquinone	130-15-4	1,4-Naphthalenedione	8270	10
1-Naphthylamine	134-32-7	1-Naphthalenamine	8270	10
2-Naphthylamine	91-59-8	2-Naphthalenamine	8270	10
Nickel	(Total)	Nickel	6010	150
			7520	400
o-Nitroaniline; 2-Nitroaniline	88-74-4	Benzenamine, 2-nitro-	8270	50
m-Nitroaniline; 3-Nitroaniline	99-09-2	Benzenamine, 3-nitro-	8270	50
p-Nitroaniline;	100-01-6	Benzenamine, 4-nitro-	8270	20
4-Nitroaniline				
Nitrobenzene	98-95-3	Benzene, nitro-	8090	40
			8270	10
o-Nitrophenol; 2-Nitrophenol	88-75-5	Phenol, 2-nitro-	8040	5
			8270	10
p-Nitrophenol; 4-Nitrophenol	100-02-7	Phenol, 4-nitro-	8040	10
			8270	50
N-Nitrosodi-n-butylamine	924-16-3	1-Butanamine, N-butyl-N-nitroso-	8270	10
N-Nitrosodiethylamine	55-18-5	Ethanamine, N-ethyl-N-nitroso-	8270	20
N-Nitrosodimethylamine	62-75-9	Methanamine, N-methyl-N-nitroso-	8070	2
N-Nitrosodiphenylamine	86-30-6	Benzenamine, N-nitroso-N-phenyl	8070	5
N-Nitrosodipropylamine;	621-64-7	1-Propanamine, N-nitroso-N-propyl	8070	10
N-Nitroso-N-dipropylamine;				
Di-n-propylnitrosamine				
N-Nitrosomethylethylamine	10595-95-6	Ethanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosopiperidine	100-75-4	Piperidine, 1-nitroso-	8270	20
N-Nitrosopyrrolidine	930-55-2	Pyrrolidine, 1-nitroso-	8270	40
5-Nitro-o-toluidine	99-55-8	Benzenamine, 2-methyl-5-nitro-	8270	10
Parathion	56-38-2	Phosphorothioic acid, 0,0-diethyl	8141	0.5
		0-(4-nitrophenyl).ester	8270	10
Pentachlorobenzene	608-93-5	Benzene, pentachloro-	8270	10
Pentachloronitrobenzene	82-68-8	Benzene, pentachloronitro-	8270	20
Pentachlorophenol	87-86-5	Phenol, pentachloro-	8040	5
			8270	50
Phenacetin	62-44-2	Acetamide, N-(4-ethoxyphenyl)	8270	20
Phenanthrene	85-01-8	Phenanthrene	8100	200

Phenol	108-95-2	Phenol	8270	10
p-Phenylenediamine	106-50-3	1,4-Benzenediamine	8040	1
Phorate	298-02-2	Phosphorodithioic acid,0,0-diethyl S-(ethylthio)methyl ester	8270 8140 8141	10 2
Polychlorinated biphenyls; PCBs; Aroclors	See Note 9	1,1-Biphenyl, chloro derivatives	8270 8080	10 50
Pronamide	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	8270 8270	200 10
Propionitrile; Ethyl cyanide	107-12-0	Propanenitrile	8015	60
Pyrene	129-00-0	Pyrene	8260 8100	150 200
Safrole	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)	8270	10
Selenium	(Total)	Selenium	8270 6010 7740	10 750 20
Silver	(Total)	Silver	7741 6010 7760	20 70 100
Silvex 2,4,5-TP	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	7761 8150	10 2
Styrene	100-42-5	Benzene, ethenyl-	8020 8021	1 0.1
Sulfide	18496-25-8	Sulfide	8260	10
2,4,5-T; 2,4,5-Trichlorophen oxyacetic acid	93-76-5	Acetic acid; (2,4,5-trichlorophenoxy)-	9030 8150	4000 2
1,2,4,5-Tetrachlorobenzene	95-94-3	Benzene, 1,2,4,5-tetrachloro-	8270	10
1,1,1,2-Tetrachloroethane	630-20-6	Ethene, 1,1,1,2-tetrachloro-	8010 8021	5 0.05
1,1,2,2-Tetrachloroethane	79-34-5	Ethane, 1,1,2,2-tetrachloro-	8260 8010 8021	5 0.5 0.1
Tetrachloroethylene;	127-18-4	Ethane, tetrachloro-	8260 8010	5 0.5

555

Tetrachloroethene; Perchloroethylene			8021	0.5
2,3,4,6-Tetrachlorophenol	58-90-2	Phenol, 2,3,4,6-tetrachloro-	8260	5
Thallium	(Total)	Thallium	8270	10
			6010	400
			7840	1000
Tin	(Total)	Tin	7841	10
Toluene	108-88-3	Benzene, methyl-	6010	40
			8020	2
			8021	0.1
o-Toluidine	95-53-4	Benzenamine, 2-methyl-	8260	5
Toxaphene	See Note 10	Toxaphene	8270	10
1,2,4-Trichlorobenzene	120-82-1	Benzene, 1,2,4-trichloro-	8080	2
			8021	0.3
			8120	0.5
			8260	10
1,1,1-Trichloroethane; Methylchloroform-	71-55-6	Ethane, 1,1,1-trichloro-	8270	10
			8010	0.3
			8021	0.3
1,1,2-Trichlorethane	79-00-5	Ethane, 1,1,2-trichloro-	8260	5
			8010	0.2
Trichloroethylene; Trichloroethene	79-01-6	Ethene, trichloro-	8260	5
			8010	1
			8021	0.2
Trichlorofluoro- methane; CFC-11	75-69-4	Methane, trichlorofluoro-	8260	5
			8010	10
			8021	0.3
2,4,5-Trichlorophenol	95-95-4	Phenol, 2,4,5-trichloro-	8260	5
2,4,6-Trichlorophenol	88-06-2	Phenol, 2,4,6-trichloro-	8270	10
			8040	5
1,2,3-Trichloropropane	96-18-4	Propane, 1,2,3-trichloro-	8270	10
			8010	10
			8021	5
0,0,0-Triethyl phosphorothioate	126-68-1	Phosphorothioic acid, 0,0,0-triethylester	8260	15
sym-Trinitrobenzene- <br/ Vanadium	99-35-4	Benzene, 1,3,5-trinitro-	8270	10
(Total)	(Total)	Vanadium	8270	10
			6010	80

			7910	2000
Vinyl acetate	108-05-4	Acetic acid, ethenyl ester	7911	40
Vinyl chloride; Chloroethene	75-01-4	Ethene, chloro-	8260	50
			8010	2
			8021	0.4
Xylene(total)	See Note 11	Benzene, dimethyl-	8260	10
			8020	5
			8021	0.2
Zinc	(Total)	Zinc	8260	5
			6010	20
			7950	50
			7951	0.5

**Notes:**

1. The regulatory requirements pertain only to the list of substances; the right hand columns (methods and PQL are given for informational purposes only. See also footnotes 5 and 6.
2. Common names are widely used in governmental regulations, scientific publications, and commerce; synonyms exist for many chemicals.
3. Chemical Abstract Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.
4. CAS index are those used in the 9th Collective Index.
5. Suggested Methods refer to analytical procedure numbers used in EPA Report SW-846 "Test Methods for Evaluating Solid Waste," third edition, November 1986, as revised, December 1987. Analytical details can be found in SW-846 and in documentation on file at the Agency. Caution: The methods listed are representative SW-846 procedures and may not always be the most suitable method(s) for monitoring an analyte under the regulations.
6. Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in groundwaters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQL values listed are generally stated to one significant figure. PQLs are based on 5 ml samples for volatile organics and 1 liter samples for semivolatile organics. Caution: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not part of the regulation.



7. This substance is often called Bis(2-chloroisopropyl) ether, the name Chemical Abstracts Service applies to its noncommercial isomer, Propane, 2,2'-oxybis[2-chloro-(CAS RN 39638-32-9).

8. Chlordane: This entry includes alpha-chlordane (CAS RN 5103-71-9), beta-chlordane (CAS RN 5103-74-2), gamma-chlordane (CAS RN 5566-34-7), and constituents of chlordane (CAS RN 57-74-9 and CAS RN 12789-03-6). PQL shown is for technical chlordane. PALS of specific isomers are about 20 ug/l by method 8270.

9. Polychlorinated biphenyls (CAS RN 1336-36-3); this category contains congener chemicals, including constituents of Aroclor 1016 (CAS RN 12676-74-11-2), Aroclor 1221 (CAS RN 11104-28-2), Aroclor 1232 (CAS RN 11141-16-5), Aroclor 1242 (CAS RN 53469-21-9), Aroclor 1248 (CAS RN 12672-29-6), Aroclor 1254 (CAS RN 11097-69-1), and Aroclor 1260 (CAS RN 11096-82-5). The PQL shown is an average value for PCB congeners.

10. Toxaphene: This entry includes congener chemicals contained in technical toxaphene (CAS RN 8001-35-2), i.e., chlorinated camphene.

11. Xylene (total): This entry includes o-xylene (CAS RN 96-47-6), m-xylene (CAS RN 108-38-3), p-xylene (CAS RN 106-42-3), and unspecified xylenes (dimethylbenzenes) (CAS RN 1330-20-7). PALS for method 8021 are 0.2 for o-xylene and 0.1 for m- or p-xylene. The PQL for m-xylene is 2.0 ug/L by method 8020 or 8260.

July 9, 2019  
10:59:51 AM

Rivesville

Solid Waste NPDES Permit WV0050776 - Interwell Statistical Evaluation

Background Date Range: 01/01/2003 to 03/31/2019  
Background Locations: MW101

Number of Future Observations: 20.00

Compliance Date Range: 10/01/2018 to 03/31/2019  
Compliance Locations: MW106

Comparison Method if all Background Results are Non-Detect:

Statistical Test for Parametric Background Data Distributions:

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

Statistical Test for Cases with High Percentage of Non-Detect Background Data:

Statistical Test for Non-Parametric Background Data Distributions:

STmdl = Last MDL

STpar = Parametric Prediction Interval on Background

STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)

STnon = Non-Parametric Prediction Interval on Background

Background Comparison:

Interwell

Number of Verification Samples:

1

Default Type 1 Individual Comparison Error Level  
(False Positive Rate) for tests other than Prediction Interval

0.01

Type 1 Individual Comparison Error Level  
(False Positive Rate) for Prediction Interval

Calculate prediction interval using an error-level of 0.01, based on the approach of  
USEPA (1992)

Non-Detect Processing (Parametric Tests):

≤55% using MDL \* 1.0

>55% using MDL \* 1.0

Non-Detect Processing (All Other):

≤55% using MDL \* 1.0

>55% using MDL \* 1.0

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW106	Aluminum, dissolved, ug/L	11/07/2018	17	17.65	Yes/Yes	STpar	99.00	82.687		<2.600	No	
MW106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STpar	99.00	3.04476		<0.00018	No	
MW106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000		49.21700	Yes	
MW106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STpar	99.00	108.567		0.054	No	
MW106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045		<0.000	No	
MW106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	STnon	99.42	13,100.000		11,564.000	No	
MW106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000		0.00021	No	
MW106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STpar	99.00	3.013		1.591	No	
MW106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STpar	99.00	3,163.600		5,690.000	Yes	
MW106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STmdl	N/A	0.00052		<0.00052	No	
MW106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000		2,150.000	No	
MW106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200		<0.040	No	
MW106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300		<2.000	No	
MW106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	STnon	99.42	59.80000		<0.00110	No	
MW106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	225.392		902.000	Yes	
MW106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000		<0.0002	No	

MANAGES

559

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW105	Total Dissolved Solids, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	804.605		2,180.000	Yes	
MW105	Zinc, dissolved, ug/L	11/07/2018	17	11.76	Yes/Yes	STpar	99.00	32.460		3.536	No	

560

July 9, 2019  
11:00:55 AM

Rivesville  
Solid Waste NPDES permit WV0050776 - Intrawell Statistical Evaluation

Background Date Range: 01/01/2003 to 03/31/2019  
Background Locations: MW101

Number of Future Observations: 18.00

Compliance Date Range: 10/01/2018 to 03/31/2019  
Compliance Locations: MW106

Comparison Method if all Background Results are Non-Detect:  
Statistical Test for Parametric Background Data Distributions:  
Statistical Test for Cases with High Percentage of Non-Detect Background Data:  
Statistical Test for Cases with High Percentage of Non-Detect Background Data:  
Statistical Test for Non-Parametric Background Data Distributions:

STmdl = Last MDL  
STpar = Parametric Prediction Interval on Background  
STlow1 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)  
STlow2 = Non-Parametric Prediction Interval on Background (ND Frequency > 50%)  
STnon = Non-Parametric Prediction Interval on Background

Background Comparison:

Interwell

Number of Verification Samples:  
Default Type 1 Individual Comparison Error Level  
(False Positive Rate) for tests other than Prediction Interval

1  
0.01

Type 1 Individual Comparison Error Level  
(False Positive Rate) for Prediction Interval

Calculate prediction interval using an error-level of 0.01, based on the approach of USEPA (1992)

Non-Detect Processing (Parametric Tests):

≤55% using MDL \* 1.0  
>55% using MDL \* 1.0

Non-Detect Processing (All Other):

≤55% using MDL \* 1.0  
>55% using MDL \* 1.0

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
MW106	Aluminum, dissolved, ug/L	11/07/2018	17	17.65	Yes/Yes	STpar	99.00	82.687		<2.600	No	
MW106	Antimony, dissolved, ug/L	11/07/2018	17	41.18	Yes/No	STpar	99.00	3.04476		<0.00018	No	
MW106	Arsenic, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	29.20000		49.21700	Yes	
MW106	Barium, dissolved, ug/L	11/07/2018	17	0.00	Yes/No	STpar	99.00	108.567		0.054	No	
MW106	Beryllium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	0.045		<0.000	No	
MW106	Boron, dissolved, ug/L	11/07/2018	17	0.00	No/No	STnon	99.42	13,100.000		11,564.000	No	
MW106	Cadmium, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	0.20000		0.00021	No	
MW106	Copper, dissolved, ug/L	11/07/2018	17	41.18	Yes/Yes	STpar	99.00	3.013		1.591	No	
MW106	Iron, dissolved, ug/L	11/07/2018	17	41.18	No/Yes	STpar	99.00	3,163.600		5,690.000	Yes	
MW106	Lead, dissolved, ug/L	11/07/2018	17	100.00	No/No	STmdl	N/A	0.00052		<0.00052	No	
MW106	Manganese, dissolved, ug/L	11/07/2018	17	52.94	No/No	STlow2	99.42	2,290.000		2,150.000	No	
MW106	Mercury, dissolved, ug/L	11/07/2018	16	81.25	No/No	STlow2	99.35	0.200		<0.040	No	
MW106	Nickel, dissolved, ug/L	11/07/2018	17	82.35	No/No	STlow2	99.42	4.300		<2.000	No	
MW106	Selenium, dissolved, ug/L	11/07/2018	17	35.29	No/No	STnon	99.42	59.80000		<0.00110	No	
MW106	Sulfate, total, mg/L	11/07/2018	17	0.00	Yes/Yes	STpar	99.00	225.392		902.000	Yes	
MW106	Thallium, dissolved, ug/L	11/07/2018	17	88.24	No/No	STlow2	99.42	6.6000		<0.0002	No	

Compliance Location	Parameter	Sample Date	Count Of Bkg Results	Percent of Non detects	Normal / Lognormal	Test	Confidence Level	Upper Limit	Lower Limit	Analysis Result	Exceedance	Trend
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563

**ATTACHMENT 7A**

**Facility Name: Rivesville**

**Permit No.: WV0050776**

**Reporting Period:**

**Sep-17 Date Uploaded: October 16, 2017**

Project Number (For FE internal use)	Discharge Number & Sample Description	Comments
		Although all parameters are being reported to their appropriate MDLs, a Part C condition within this permit prohibits the permittee from reporting a parameter result as less than the testing laboratory's Minimum Level ("ML"), Reporting Level ("RL") or Practical Quantitation Limit ("PQL"). This requirement, to report to the MDL rather than the RL, is in direct opposition to laboratory accreditation requirements (NELAP, WVDEP) that state that a laboratory shall not report to their MDL, but instead must utilize RLs or PQLs when reporting below these established levels.
27100105	006 Lower Sedimentation Pond	A monthly sample was collected on 09.18.17. Semi-Annual Acute Toxicity sampling was completed on 09.06.17.
	Groundwater Program	(requirements are bi-annual, 4/1-9/30 & 10/1-3/31)
27500217	LM1	No Flow 6/8/2017
27500218	LM2	
27500212	MW101	
27500214	MW103	
27500215	MW104	
27500216	MW105	
27500209	MW106	STORET 01000, Arsenic, Dissolved exceeded its Maximum limitation during the reporting period and will be resampled and reported per permit conditions.

rev 201504 wec





## ATTACHMENT 7C

**Facility Name:** Rivesville

**Permit No.:** WV0050776

**Reporting Period:**

**Sep-18 Date Uploaded: October 17, 2018**

Project Number (For FE internal use)	Discharge Number & Sample Description	Comments
		Although all parameters are being reported to their appropriate MDLs, a Part C condition within this permit prohibits the permittee from reporting a parameter result as less than the testing laboratory's Minimum Level ("ML"), Reporting Level ("RL") or Practical Quantitation Limit ("PQL"). This requirement, to report to the MDL rather than the RL, is in direct opposition to laboratory accreditation requirements (NELAP, WVDEP) that state that a laboratory shall not report to their MDL, but instead must utilize RLs or PQLs when reporting below these established levels.
27100105	006 Lower Sedimentation Pond	Required monthly samples were obtained on 09.11.18. The quarterly mercury (Hg) sample was obtained on 07.02.18. The semi-annual acute toxicity testing was completed on 09.09.18.
	Groundwater Program	(requirements are bi-annual, 4/1-9/30 & 10/1-3/31)
	27500217 LM1	
	27500218 LM2	
	27500212 MW101	
	27500214 MW103	
	27500215 MW104	
	27500216 MW105	
27500209	MW106	Arsenic, Dissolved, STORET 01000, exceeded its Maximum limitation during the reporting period and will be resampled and reported per permit conditions.
		rev 201712 wec

## ATTACHMENT 7D

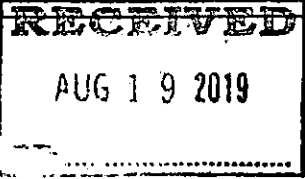
**Facility Name:** Rivesville

**Permit No.:** WV0050776

**Reporting Period:**

**Mar-19 Date Uploaded: April 10, 2019**

Project Number (For FE internal use)	Discharge Number & Sample Description	Comments
		Although all parameters are being reported to their appropriate MDLs, a Part C condition within this permit prohibits the permittee from reporting a parameter result as less than the testing laboratory's Minimum Level ("ML"), Reporting Level ("RL") or Practical Quantitation Limit ("PQL"). This requirement, to report to the MDL rather than the RL, is in direct opposition to laboratory accreditation requirements (NELAP, WVDEP) that state that a laboratory shall not report to their MDL, but instead must utilize RLs or PQLs when reporting below these established levels.
27100105	006 Lower Sedimentation Pond	Required monthly samples were obtained on 03.05.19. The quarterly mercury (Hg) sample was obtained on 01.07.19. The semi-annual acute toxicity testing was completed on 02.25.19.
	Groundwater Program	(requirements are bi-annual, 4/1-9/30 & 10/1-3/31)
27500217	LM1	
27500218	LM2	
27500212	MW101	
27500214	MW103	
27500215	MW104	
27500216	MW105	
27500209	MW106	Arsenic, Dissolved, STORET 01000, exceeded its Maximum limitation during the reporting period and will be resampled and reported per permit conditions.
		rev 201712 wec



**CERTIFIED MAIL**  
7015 3010 0001 0020 7797

August 14, 2019

Mr. Yogesh Patel, Engineer Chief  
Division of Water and Waste Management  
West Virginia Department of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RECEIVED  
AUG 21 2019  
DWWM-WASTE

**MONONGAHELA POWER COMPANY  
RIVESVILLE POWER STATION CCR LANDFILL  
MARION COUNTY, WV  
SW/NPDES PERMIT NO. WV0050776  
RENEWAL APPLICATION**

Dear Mr. Patel:


An Application was submitted August 14, 2019 via the Electronic Submission System (ESS) by Monongahela Power Company seeking renewal of SW/NPDES Permit No. WV0050776 for the Rivesville Power Station Closed Coal Combustion Residue Landfill.

In association, enclosed are the following:

- \$1000.00 FirstEnergy Check No. 2893205
- Signed Application Certification Statement
- Notarized Statement for Billing

Should you have any questions regarding this submittal, please do not hesitate to contact me at (724) 838-6018 or wcannon@firstenergycorp.com.

Sincerely,

  
William E. Cannon  
Staff Scientist

Enclosures

c: Lori Devereux - WVDEP, Charleston




Applicant:	MONONGAHELA POWER COMPANY	Type:	Reissue NPDES Industrial
Reference ID:	WV0050778 Rivesville P.S. Closed CCR Landfill Renewal (08/21/2018)	Permit ID:	WV0050778
Section XII: Certification			
Status:	New	Printed:	Aug. 13, 2019 2:06 PM

**XII. CERTIFICATION (see instructions)**

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 ensure that qualified personnel properly gather and evaluate the information submitted. Based upon 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. NAME

OFFICIAL TITLE

B. SIGNATURE 

C. DATE SIGNED

Please Print, Sign, Scan and attach this document rather than mailing as a wet ink signature is no longer required.



Applicant:	MONONGAHELA POWER COMPANY	Type:	Reissue NPDES Industrial
Reference ID:	WV0050776 Rivesville P.S. Closed CCR Landfill Renewal (08/21/2019)	Permit ID:	WV0050776
Form: Statement For Billing, Class II			
Status:	New	Printed:	Jul. 29, 2019 6:53 AM

The Monongahela Power Company, of which I am an  
name of company or facility  
authorized representative, has applied for a West Virginia National Pollutant Discharge Elimination System permit from the West Virginia Department of Environmental Protection, Division of Water Resources. Under the West Virginia Legislative Rules; Title 33, Series I, Section 3.21.3.b, the costs of publishing a Class II legal advertisement are to be paid by the applicant who must also send the certificate of publication to the Division of Water Resources within twenty (20) days after publication.

The Monongahela Power Company, hereby agrees to pay  
name of company or facility  
the cost of such legal advertisement. The publishing newspaper should send the certificate of publication and bill to, company or facility name and address:

Name: Monongahela Power Company  
Line 1: 800 Cabin Hill Drive  
Line 2: ATTN: W.E. CANNON  
Country: United States of America ✓  
City: Greensburg  
State: Pennsylvania ✓  
Zip: 15601 Postal Code Ref.

William E. Cannon 724 838-6018 (### ### ####)  
authorized representative. area code phone number

*William E. Cannon*  
Signature of Authorized Representative

Sworn and subscribed to before me this 29th day of July, 2019.  
Suzanne Palcic  
Notary Public  
8-5-2021  
Commission Expires

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Suzanne Palcic, Notary Public  
City of Greensburg, Westmoreland County  
My Commission Expires Aug. 5, 2021  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

WV0050776

2893205

**FirstEnergy**

VOID IF NOT CASHED WITHIN 90 DAYS

50-937  
213

Check No. 2893205

CHECK DATE

AMOUNT

07 30 2019

\*\*\*\*\*1,000.00

PAY TO THE ORDER OF WEST VIRGINIA DEP  
DIVISION OF WATER & WASTE MGMT  
601 57TH STREET SE  
CHARLESTON, WV 25304

EXACTLY \*\*\*\*\*1,000 DOLLARS 00 CENTS

*Steven R. Steink*  
Treasurer  
FirstEnergy Corp.

Morgan Chase Bank, Syracuse, NY 13206



INDOR NO. 0210014251 DOC NO. 2000253686

PO NO	INVOICE / RCPT #	DATE	DOCUMENT #	VENDOR INV AMT	DISCOUNT	NET AMOUNT
	RIV. WV0050776	07/29/2019	1902000706	1,000.00	0.00	1,000.00

Rivesville Permit Renewal Fee - WV0050776

OR CHECK INQUIRY, CONTACT FIRSTENERGY ACCOUNTS PAYABLE AT APHELP@FIRSTENERGYCORP.COM.

RECEIVED

AUG 21 2019

DWWM-WASTE



**west virginia department of environmental protection**

Division of Water and Waste Management  
601 57th St. SE  
Charleston, WV 25304  
Phone: (304) 926-0499  
Fax: (304) 926-0465

Austin Caperton, Cabinet Secretary  
dep.wv.gov

Revised April 5, 2018

**SOLID WASTE FACILITY PERMIT  
RENEWAL APPLICATION**

Please submit two (2) copies of the following information to the Division of Water and Waste Management. This Solid Waste Facility Permit Renewal Application is being submitted for:

Name of Facility: Rivesville Power Station Closed CCR Landfill

Permit No.: WV0050776 Expiration Date: February 17, 2020

**A. GENERAL INFORMATION**

1. Name of permittee or company:

Monongahela Power Company

Telephones No: (724) 838 - 6824

Address: 800 Cabin Hill Drive  
Greensburg, PA 15601

2. Name and title of person(s) representing the company:

John Jeffrey Kapolka  
Sr. Environmental Specialist

**Promoting a healthy environment.**



3. Name of the facility:

Rivesville Power Station Closed CCR Landfill

Facility Address:

8 Jackson Street  
Rivesville, WV 26588

Telephone No: ( 304 ) 584 - 2422

Location of the facility:

I-79 to Fairmont, Route 19 north to Rivesville, Jackson Street and closed  
power station are visible from 19. Landfill is approximately one mile  
northeast of the closed power station on County Road (CR) 19/4.

Marion

(County)

(Magisterial District)

Rivesville

(Nearest post office)

4. Latitude of the center of the facility: 39.539226

Longitude of the center of the facility: -80.094226

**B. STATEMENT OF COMPLIANCE**

In accordance with West Virginia Code §22-15-10 I hereby request renewal of the above referenced Solid Waste Permit. I certify that all conditions of West Virginia Code §22-15 and all rules promulgated thereunder, and conditions and requirements specified in Permit No. WV0050776

have been complied with in making the request for this permit renewal.

Signed: Shelly Kauffman

Title: President, WV Operations

**C. CONTINUANCE OF PERFORMANCE BOND/FINANCIAL ASSURANCE**

I hereby certify that the performance bond coverage for this facility will continue in effect for the full term of this permit and for a period of thirty (30) full years after final closure of the permit site in accordance with West Virginia Code §22-15.

Signed: Exempt from the requirements

Title: as a Non-commercial facility.

**D. PROGRESS MAP**

1. Provide a map of the same size and scale as the original site plan that includes:
  - a. The current aerial extent of the disposal area
  - b. Any revisions to sediment and erosion control structures as the fill has been developed
  - c. Any revisions to the leachate collection, storage, or treatment facilities
  - d. Any expansion of the disposal area liner system or construction of any new disposal cells
  - e. Any revisions or additions to passive gas venting or the gas recovery system
  - f. All other information contained on the original site plan
2. The map must be signed and sealed by a professional engineer, registered in West Virginia, to certify that the information set forth on the progress map is true and accurate.

**E. PERMIT RENEWAL APPLICATION FEE**

Is the renewal application fee in the amount of one thousand dollars (\$1,000.00), required by subsection 3.6. and Appendix IV of the Solid Waste Management Rule (33CSR1), included with this submittal?

**F. PUBLIC NOTICE**

The permittee must meet the applicable public notice requirements as set forth in Subdivision 3.20.b. and Subsection 3.21. of the Solid Waste Management Rule (33CSR1).

**G. VERIFICATION OF APPLICATION**

1. I, Holly C. Kauffman, the principal officer of the permittee, hereby certify that the information contained in this application for Solid Waste Facility Permit Renewal is true and accurate to the best of my knowledge and belief.

Signed: Holly C. Kauffman  
Title: PRESIDENT, WV Operations  
Date: 8/5/19

2. Notarization

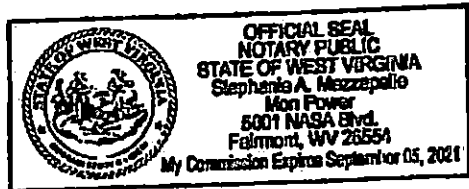
STATE OF WEST VIRGINIA  
COUNTY OF: Mason

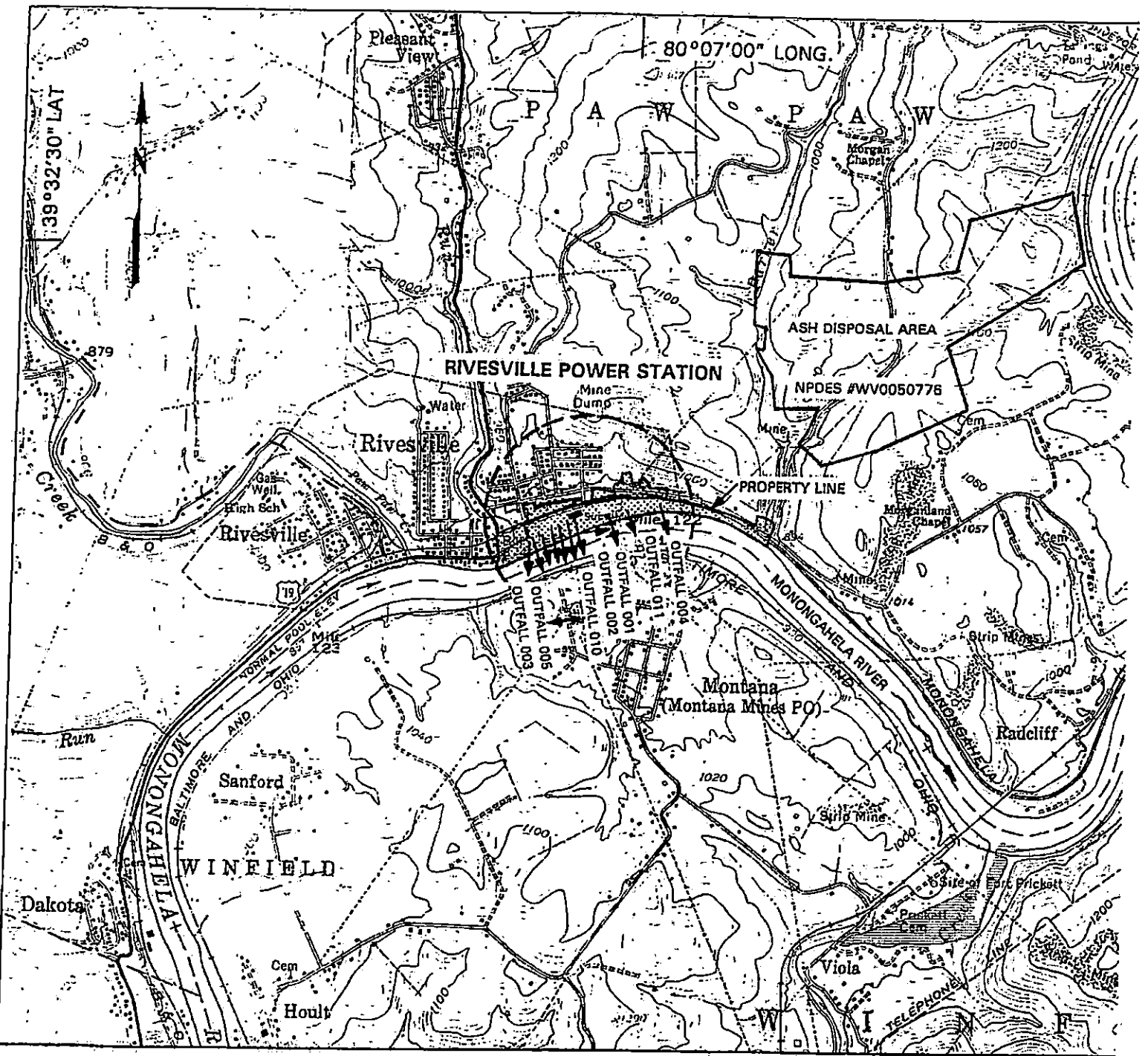
Taken, subscribed and sworn to before me, a Notary Public in and for the County and State aforesaid this 5 day of August 2019.

My commission expires: September 5, 2021

Stephanie A. Mezzopelle  
Notary Public

STAMP OR SEAL:






**LOCATION MAP**

REPRODUCED FROM U.S.G.S. MAPS RIVESVILLE & GRANT TOWN, WV QUADRANGLES.

- NOTES:**
1. AREA WITHIN 1/4 MILE OF THE STATION IS ENCLOSED WITHIN A DASHED LINE (---). MUNICIPAL WATER SYSTEM IS AVAILABLE TO THE TOWNS OF RIVESVILLE AND MONTANA.

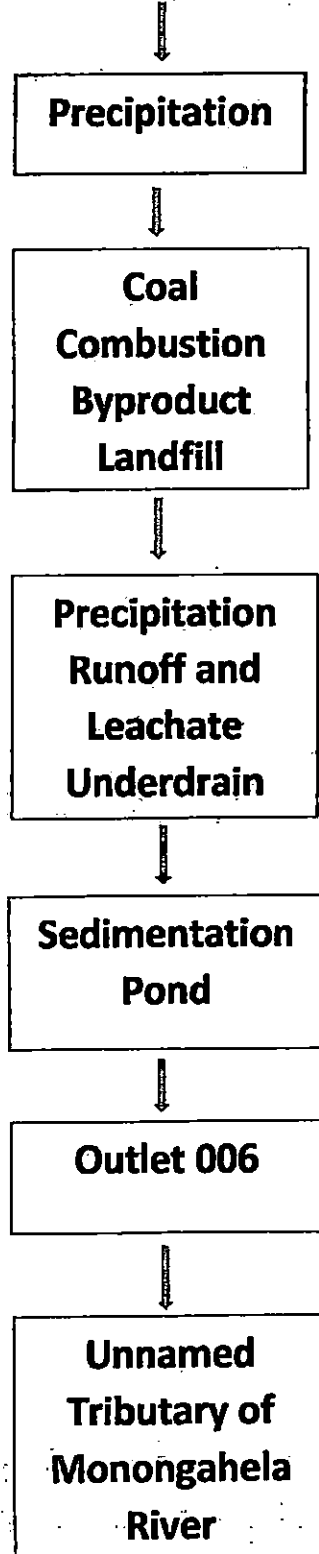
SHEET 1 OF 1

SOURCE <b>J. LAPCEVIC</b>	 <b>Allegheny Power System</b> BULK POWER SUPPLY	DRAWN 1/16/95 <b>L. K. HUNTER</b>	DRAWING NUMBER <b>105-998</b>  REV <b>1</b>
CAD FILE		CHKD <b>BFTG APPROVED</b> <i>[Signature]</i> 1-18-95	
REVIEWED <i>[Signature]</i> 1/19/95	MONONGAHELA POWER COMPANY RIVESVILLE POWER STATION  NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WATER POLLUTION CONTROL PERMIT	SCALE <b>1"=2000'</b>	
APPROVED <i>[Signature]</i> DATE 1/19/95		AUTHORIZATION <b>756039</b>	

POWER STATION	PROJECT NUMBER	MONITORING POINT NUMBER	SAMPLE POINT LATITUDE	SAMPLE POINT LONGITUDE	ELEVATION OF TOC	TOTAL DEPTH FROM TOC	CASING STICK-UP
WV0050776							
RIVESVILLE	27500209	MW106	39 32 23.77	80 05 40.92	1149.13	109.5	0
RIVESVILLE	27500212	MW101	39 32 14.7	80 05 41.2	1202.15	45.1	2.71
RIVESVILLE	27500214	MW103	39 32 25.28	80 05 31.72	1036.7	48	2
RIVESVILLE	27500215	MW104	39 32 25.5	80 05 27.20	998.6	25.1	2.43
RIVESVILLE	27500216	MW105	39 32 22.7	80 05 28.71	1044.82	50	2
RIVESVILLE	27500217	LM1	39 32 30	80 05 30			0
RIVESVILLE	27500218	LM2	39 32 24	80 05 26			

**Rivesville Power Station**  
**CCR Landfill Undergoing Closure**  
**Solid Waste/NPDES Permit No. WV0050776**

**Water Flow Diagram**





**Applicant: MONONGAHELA POWER COMPANY**  
**Reference ID: WV0050776 Rivesville P.S. Closed CCR**  
**Landfill Renewal (06/21/2019)**  
**Status: ERIS - Public Notice Pending**

**Type: Reissue NPDES**  
**Industrial #5**  
**Permit ID: WV0050776**  
**Printed: Feb. 26, 2024**  
**9:58 AM**

**Sections I - III: Facility Information**

I.	<b>NAME OF FACILITY:</b>	Rivesville Power Station Closed CCR Landfill	
II.	<b>FACILITY CONTACT:</b>		
	A. Name(last, first):	Hartman, Douglas	
	Title:	Manager, Governance, Permitting & Env. Services	
	B. Phone number:	330-315-7329	(### ### ####)
III.	<b>FACILITY MAILING ADDRESS:</b>		
	A. Street or Post Office Box:		
	Address Line 1:	FirstEnergy Corp	
	Address Line 2:	800 Cabin Hill Drive	
	B. City:	Greensburg	
	C. State:	Pennsylvania	
	D. Zip:	15601	

**Section IV: Facility Location**

IV.	<b>FACILITY LOCATION:</b>		
	A. Street, Route No. or other specific identifier:	8 Jackson Street	
	B. City, Town or Nearest Post Office:	Rivesville	
	C. County:	Marion	
	D. Zip:	26588	
<b>Directions to Facility:</b>			
I-79 to Fairmont, Route 19 north to Rivesville, Jackson Street and closed power station are visible from Route 19. Landfill is approximately one mile northeast of the closed power station on County Road CR 19/4.			

**Section V: Ownership and Operator Information**

V. OWNERSHIP INFORMATION:

A. Name: MONONGAHELA POWER COMPANY

B. Phone: 724-838-6018 (###-###-####)

Attention: W.E. Cannon

Address of Owner:

Address Line 1: 800 CABIN HILL DRIVE

Address Line 2: ENVIRONMENTAL DEPARTMENT

City: GREENSBURG

Country: United States of America

State: Pennsylvania

Zip: 15601-1689 PostalCode Ref.

Email Address: wcannon@firstenergycorp.com

C. Is name listed in Item V-A also the operator:  
 Yes (go to Item V-E)       No (complete V-D)

OPERATOR INFORMATION:

D. Name:

Phone: (###-###-####)

Attention:

Address of Operator:

Address Line 1:

Address Line 2:

City:

Country: United States of America

State: West Virginia

Zip: PostalCode Ref.

Email Address:

E. Status of Operator (If "Other" specify)  
 Federal       State       Private  
 Public       Other      Specify: Investor Owned Elec. Utility

**Section VI: Applicant Request**

VI. APPLICANT REQUEST:

1. Allow sewage, industrial wastes or other wastes, or effluent therefrom, produced by or emanating from any point source, to flow into the waters of this State;

2. Make, cause or permit to be made any outlet, or substantially enlarge or add to the load of any existing outlet, for the discharge of sewage, industrial wastes or other wastes, or the effluent therefrom, into the waters of this State;

3. Acquire, construct, install, modify, or operate a disposal system or part thereof for the direct or indirect discharge or deposit of treated or untreated sewage, industrial wastes or other wastes, or the effluent therefrom, into the waters of this State, or any extension to or addition to such disposal system;

4. Increase in volume or concentration of any sewage, industrial wastes or other wastes in excess of the discharges or disposition specified or permitted under any existing permit;

5. Extend, modify or add to any point source, the operation of which would cause an increase in the volume or concentration of any sewage, industrial wastes discharging or flowing into the waters of this State;

**Section VII: Reissuance of Existing Permits**



**VII. REISSUANCE OF EXISTING PERMITS:**

A. Since issuance of your existing permit have you added any outlets, modified or added to your treatment or disposal system in any way, increased the volume or concentration of your waste(s) or waste stream(s), or extended, modified or added to your facility any operation which would cause an increase in the volume or concentration of waste(s) discharged?

Yes  No (see instructions before completing remainder of this form)

**Section VIII: SIC Codes**

Primary SIC: 4953 Refuse systems

Secondary SIC:

**Section IX: Existing Environmental Permits**

**IX. EXISTING ENVIRONMENTAL PERMITS (including other Division of Water and Waste Management Permits)**

Issuing Agency and Address: WVDEP

Type of Permit or License: Solid Waste/NPDES

Permit Number: WV0050776

Effective Date yr/mo/day: 04/01/2015

Expiration Date yr/mo/day: 02/17/2020

**Section X: Map or Drawing**

**X. MAP OR DRAWING:**

A. Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all wells, sinkholes, springs, rivers and other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant in the map area. See instructions for precise requirements.

Map attached how:  Paper  Electronic

For attached SHP files, please select from below:

Datum:  Projection:

**Section XI: Nature of Business**

**XI. NATURE OF BUSINESS (provide a brief description)**

A. Provide a brief description of the business.

Facility is a closed captive solid waste disposal landfill that was used to dispose of fly ash and bottom ash resulting from electric generation at the Rivesville Power Station, itself now closed.

B. Do you qualify as a small business? (See instructions for qualification criteria)

Yes  No

**Section XIII: Outlet Location**

### XIII. OUTLET LOCATION

For each outlet, list the latitude and longitude to the nearest second; the River Mile Point (if known) and the name of the immediate receiving water. (see instructions)

A. Outlet Number:

B. Latitude:  °  '  "

C. Longitude:  °  '  "

UTM Zone:

UTM Northing:

UTM Easting:

D. River Mile Point:

E. Immediate Receiving Water (include all streams to Major Basin):

Unnamed Tributary of

tributary of

tributary of

tributary of

tributary of

Major Basin:

F. Geospatial Method:

Datum:

G. Actual Average Flow:   
GPD (Gallons Per Day)

#### Section XVII A: Intake and Effluent Characteristics - Table A

TABLE A. You must provide the results of at least one analysis for every pollutant in this table. See instructions for additional details.

<input type="checkbox"/> Check for Storm Water only outlet.							
2.EFFLUENT							
1.POLLUTANT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. No.OF ANALYSES
	(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	2.12	1.27	2.12	1.27	n/a	n/a	1
b. Chemical Oxygen Demand	20.57	3.71	20.57	3.71	16.21	2.57	2
c. Total Organic Carbon (TOC)	6.263	1.13	6.263	1.13	5.24	0.82	2
d. Total Suspended Solids (TSS)	5	<7.21	5	<7.21	<1.3	<1.47	15
e. Ammonia (as N)	0.119	0.018	0.119	0.021	0.119	0.018	2
f. Flow	VALUE	0.216	VALUE	0.216	VALUE	0.0569	17
g. Temperature (winter)	VALUE	Ambient	VALUE	Ambient	VALUE	Ambient	16
g. Temperature (summer)	VALUE	Ambient	VALUE	Ambient	VALUE	Ambient	16
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM			16
	7.5	8.21	7.62	8.21			

1.POLLUTANT	3.UNITS (specify if blank)		4.INTAKE (optional)		b. No.OF ANALYSES
	a. CONC	b. MASS	a. LONG TERM AVG. VALUE		
			(1) CONC	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	mg/L	lbs./day			n/a
b. Chemical Oxygen Demand	mg/L	lbs./day			
c. Total Organic Carbon (TOC)	mg/L	lbs./day			
d. Total Suspended Solids (TSS)	mg/L	lbs./day			
e. Ammonia (as N)	mg/L	lbs./day			
f. Flow	mgd	mgd	VALUE		
g. Temperature (winter)	ambient	ambient	VALUE		
g. Temperature (summer)	ambient	ambient	VALUE		
i. pH	STANDARD UNITS				

**Section XVII B: Intake and Effluent Characteristics - Table B**

TABLE B - Select column 2-a for each pollutant you know or have reason to believe is present. Select column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Each pollutant has four items (numbered 2-4) which are required to be filled out if "Believed Present" is selected. It should be noted that Item 5 is optional. See instructions for additional details and requirements.

Check for Storm Water only outlet.

1. POLLUTANT and CAS NO. (If available)	2. SELECT a or b		3. EFFLUENT						d. No. OF ANALYS- ES
	a. Bel- eived Pre- sent	b. Bel- eived Abs- ent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		
			(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC	(2) MASS	
a. Bromide (24959-67-9)	<input checked="" type="radio"/>	<input type="radio"/>	1.28	0.21	1.28	0.21	1.21	0.18	2
b. Chloride	<input checked="" type="radio"/>	<input type="radio"/>	4.36	0.79	4.36	0.79	4.05	0.62	2
c. Chloride Residual	<input checked="" type="radio"/>	<input type="radio"/>	<0.1	<0.01	<0.1	<0.01	n/a	n/a	1
d. Color	<input checked="" type="radio"/>	<input type="radio"/>	<1	n/a	<1	n/a	n/a	n/a	1
e. Fecal Coliform	<input checked="" type="radio"/>	<input type="radio"/>	50	n/a	50	n/a	n/a	n/a	1
f. Fluoride (16984-48-8)	<input checked="" type="radio"/>	<input type="radio"/>	0.133	0.024	0.133	0.024	0.105	0.017	2
g. Nitrate- Nitrite(as N)	<input checked="" type="radio"/>	<input type="radio"/>	<0.1449	<0.0174	<0.1449	<0.0174	<0.0743	<0.0089	2
h. Nitrogen, Total Organic (as N)	<input checked="" type="radio"/>	<input type="radio"/>	0.1427	0.02	0.1427	0.02	n/a	n/a	1
i. Oil and Grease	<input checked="" type="radio"/>	<input type="radio"/>	2.39	0.39	2.39	0.39	2.28	0.34	2
j. Phosphorus (as P), Total (7723-14-0)	<input checked="" type="radio"/>	<input type="radio"/>	<0.153	<0.03	<0.153	<0.03	<0.02	<0.153	<0.02
k. Radioactivity									
(1) Alpha, Total	<input type="radio"/>	<input checked="" type="radio"/>							
(2) Beta, Total	<input type="radio"/>	<input checked="" type="radio"/>							
(3) Radium, Total	<input type="radio"/>	<input checked="" type="radio"/>							
(4) Radium 226, Total	<input type="radio"/>	<input checked="" type="radio"/>							
l. Sulfate(as SO <sub>4</sub> ) (14808-79-8)	<input checked="" type="radio"/>	<input type="radio"/>	600	303	600	303	372	94	15
m. Sulfide (as S)	<input checked="" type="radio"/>	<input type="radio"/>	<1	<1	<1	<1	n/a	n/a	1
n. Sulfite(as SO <sub>3</sub> ) (14265-45-3)	<input checked="" type="radio"/>	<input type="radio"/>	<1	<1	<1	<1	n/a	n/a	1
o. Surfactants	<input checked="" type="radio"/>	<input type="radio"/>	<0.05	<0.03	<0.05	<0.03	n/a	n/a	1
p. Aluminum, Total (7429-90-5)	<input checked="" type="radio"/>	<input type="radio"/>	0.2856	0.2424	0.2856	0.2424	0.1053	0.0473	16

q. Barium, Total (7440-39-3)	<input checked="" type="radio"/>	<input type="radio"/>	0.1125	0.1014	0.1125	0.1014	0.0364	0.0170	13
r. Boron, Total (7440-42-8)	<input checked="" type="radio"/>	<input type="radio"/>	20.144	18.155	20.144	18.155	5.15	0.9267	15
s. Cobalt, Total (7440-48-4)	<input checked="" type="radio"/>	<input type="radio"/>	0.000664	0.00008	0.000664	0.00008	0.000332	0.00004	2
t. Iron, Total (7439-89-6)	<input checked="" type="radio"/>	<input type="radio"/>	1.08	0.97	1.08	0.97	0.269	0.139	15
u. Magnesium, Total (7439-95-4)	<input checked="" type="radio"/>	<input type="radio"/>	144	130	144	130	45.797	17.681	15
v. Molybdenum Total (7439-98-7)	<input checked="" type="radio"/>	<input type="radio"/>	0.2771	0.129	0.2771	0.129	0.163	0.046	13
w. Manganese, Total (7439-96-5)	<input checked="" type="radio"/>	<input type="radio"/>	0.8735	0.787	0.8735	0.787	0.213	0.098	15
x. Tin, Total (7440-31-5)	<input checked="" type="radio"/>	<input type="radio"/>	<0.005	<0.0009	<0.005	<0.0009	<0.005	<0.0009	2
y. Titanium, Total (7440-32-6)	<input checked="" type="radio"/>	<input type="radio"/>	0.004859	0.00058	0.004859	0.00058	<.002429	<0.00029	2

1.POLLUTANT and CAS NO. (if available)	4.UNITS (specify if blank)		5.INTAKE (optional)		
	a. CONC	b. MASS	a. LONG TERM AVG. VALUE		b. No. OF ANALYSES
			(1) CONC	(2) MASS	
a. Bromide (24959-67-9)	mg/l	lbs./day			n/a
b. Chloride	mg/l	lbs./day			
c. Chloride Residual	mg/L	lbs./day			
d. Color	Color Unit	n/a			
e. Fecal Coliform	Col/100ml	n/a			
f. Fluoride (16984-48-8)	mg/l	lbs./day			
g. Nitrate-Nitrite (as N)	mg/l	lbs./day			
h. Nitrogen, Total Organic (as N)	mg/l	lbs./day			
i. Oil and Grease	mg/l	lbs./day			
j. Phosphorus (as P); Total (7723-14-0)	mg/l	lbs./day			
k. Radioactivity					
(1) Alpha, Total					
(2) Beta, Total					
(3) Radium, Total					
(4) Radium 226, Total					
l. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	mg/l	lbs./day			
m. Sulfide (as S)	mg/l	lbs./day			
n. Sulfitte (as SO <sub>3</sub> ) (14265-45-3)	mg/l	lbs./day			
o. Surfactants	mg/l	lbs./day			
p. Aluminum, Total (7429-90-5)	mg/l	lbs./day			
q. Barium, Total (7440-39-3)	mg/l	lbs./day			
r. Boron, Total (7440-42-8)	mg/l	lbs./day			
s. Cobalt, Total (7440-48-4)	mg/l	lbs./day			
t. Iron, Total (7439-89-6)	mg/l	lbs./day			
u. Magnesium, Total (7439-95-4)	mg/l	lbs./day			
v. Molybdenum Total (7439-98-7)	mg/l	lbs./day			
w. Manganese, Total (7439-96-5)	mg/l	lbs./day			
x. Tin, Total (7440-31-5)	mg/l	lbs./day			
y. Titanium, Total (7440-32-6)	mg/l	lbs./day			

**Section XVII C: Intake and Effluent Characteristics - Table C Metals**

Check for Storm Water only outlet.

TABLE C - If you are a primary industry and this outlet contains process wastewater, refer to Table 2 in the instructions to determine which of the GC/MS fractions you must test for. Select column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, non-process wastewater outlet, and non-required GC/MS fractions) select column 2-b for each pollutant you know or have reason to believe is present. Select column 2-c for each pollutant you believe to be absent. If you Select either column 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Each pollutant has four items (numbered 2-4) which are required to be filled out if "Testing Required" or "Believed Present" is selected. It should noted that Item 5 is optional. See instructions for additional details and requirements.

1. POLLUTANT and CAS NO. (if available)	2. Select			3. EFFLUENT							
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)			
				(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC	(2) MASS		
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>											
1M. Antimony, Total(7440-38-2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.00026	0.00047	0.00026	0.00047	0.00002	0.00003		
2M. Arsenic, Total(7440-38-2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0077	0.007	0.0077	0.007	0.0043	0.0016		
3M. Beryllium, Total (74440-41-7)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.001266	0.00018	0.001086	0.00018	0.00038	0.00005		
4M. Cadmium, Total(7440-43-9)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.000332	0.00060	0.000332	0.00060	0.000043	0.00005		
5M. Chromium, Total(7440-47-3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<0.00029	<0.00005	<0.00029	<0.00005	<0.00029	<0.00004		
6M. Copper, Total(7550-50-8)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<0.00218	<0.00039	<0.00218	<0.00039	<0.00218	<0.00033		
7M. Lead, Total (7439-97-6)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<0.00010	<0.00019	<0.00010	<0.00019	<0.00010	<0.00004		
8M. Mercury, Total(7439-97-8)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.000004	0.000001	0.000004	0.000001	<0.00002	<0.00001		
9M. Nickel, Total(7440-02-0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.00853	0.00106	0.0043	0.00106	0.002079	0.00039		
10M. Selenium, Total(7782-49-2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.001304	0.00081	0.001304	0.00081	0.000180	0.00009		
11M. Silver, Total(7440-22-4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<0.00009	<0.00002	<0.00009	<0.00002	<0.00009	<0.00001		
12M. Thallium, Total(7440-28-0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.000188	0.00034	0.000188	0.00034	0.000013	0.00002		
13M. Zinc, Total(7440-66-6)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0072	0.00216	0.0072	0.00216	0.0014	0.00043		
14M. Cyanide, Total(57-12-5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0028	0.0005	0.0028	0.0005	<0.0014	<0.0003		
15M. Phenols, Total	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<0.002	<0.0002	<0.002	<0.0002	n/a	n/a		
<b>DIOXIN</b>											
2,3,7,8-tetra-chlorobibenzo-P-Dioxin (1764-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DESCRIBE RESULTS							

TABLE C -

1.POLLUTANT and CAS NO. (If available)	3. EFFLUENT d. No. OF ANALYSES	4.UNITS (specify if blank)		5.INTAKE (optional)		b. No. OF ANALYSES
		a. CONC	b. MASS	a. LONG TERM AVG. VALUE (1) CONC	(2) MASS	
1M. Antimony, Total(7440-38-2)	15	mg/L	lbs./day			n/a
2M. Arsenic, Total(7440-38-2)	15	mg/L	lbs./day			
3M. Beryllium, Total (74440-41-7)	15	mg/L	lbs./day			
4M. Cadmium, Total(7440-43-9)	15	mg/L	lbs./day			
5M. Chromium, Total(7440-47-3)	2	mg/L	lbs./day			
6M. Copper, Total(7550-50-8)	2	mg/L	lbs./day			
7M. Lead, Total (7439-97-6)	15	mg/L	lbs./day			
8M. Mercury, Total(7439-97-8)	6	mg/L	lbs./day			
9M. Nickel, Total(7440-02-0)	15	mg/L	lbs./day			
10M. Selenium, Total(7782-49-2)	15	mg/L	lbs./day			
11M. Silver, Total(7440-22-4)	2	mg/L	lbs./day			
12M. Thallium, Total(7440-28-0)	15	mg/L	lbs./day			
13M. Zinc, Total(7440-66-6)	15	mg/L	lbs./day			
14M. Cyanide, Total(57-12-5)	2	mg/L	lbs./day			
15M. Phenols, Total	1	mg/L	lbs./day			

**Section XVII C: Intake and Effluent Characteristics - Table C Volatile Compounds**



<input type="checkbox"/> Check for Storm Water only outlet.				3. EFFLUENT					
1. POLLUTANT and CAS NO. (If available)	2. Select			a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)	
	a. Testing Required	b. Believed Present	c. Believed Absent	(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC	(2) MASS
GC/MS FRACTION - VOLATILE COMPOUNDS									
1V. Acrolein (107-02-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
2V. Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
3V. Benzene (71-43-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
4V. Bromoform (75-25-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
5V. Carbon Tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
6V. Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
7V. Chlorodibromomethene (124-48-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
8V. Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
9V. 2-Chloroethylvinyl Ether (110-75-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
10V. Chloroform (67-66-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
11V. Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
12V. 1,1-Dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
13V. 1,2-Dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
14V. 1,1-Dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
15V. 1,2-Dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
16V. 1,3-Dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
17V. Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
18V. Methyl Bromide (74-83-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
19V. Methyl Chloride (74-87-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
20V. Methylene Chloride (75-09-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
21V. 1,1,2,2-Tetrachloroethane (79-34-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
22V. Tetrachloroethylene(127-18-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
23V. Toluene (108-88-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						

24V. 1,2-Trans-Dichloroethylene (156-60-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
25V. 1,1,1-Trichloroethane (71-55-6)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
26V. 1,1,2-Trichloroethane (79-00-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
27V. Trichloroethylene(79-01-61)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
28V. Vinyl Chloride(75-01-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						

1.POLLUTANT and CAS NO. (if available)	3.EFFLUENT d. No. OF ANALYSES	4.UNITS (specify if blank)		5.INTAKE (optional)		
		a. CONC	b. MASS	a. LONG TERM AVG. VALUE		b. No. OF ANALYSES
				(1) CONC	(2) MASS	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS</b>						
1V. Acrolein (107-02-8)						
2V. Acrylonitrile (107-13-1)						
3V. Benzene (71-43-2)						
4V. Bromoform (75-25-2)						
5V. Carbon Tetrachloride (56-23-5)						
6V. Chlorobenzene (108-90-7)						
7V. Chlorodi- bromomethene (124-48-1)						
8V. Chloroethane (75-00-3)						
9V. 2-Chloro- ethylvinyl Ether (110-75-8)						
10V. Chloroform (67-66-3)						
11V. Dichloro- bromomethane (75-27-4)						
12V. 1,1-Dichloro- ethane (75-34-3)						
13V. 1,2- Dichloro- ethane (107-06-2)						
14V. 1,1-Dichloro- ethylene (75-35-4)						
15V. 1,2-Dichloro- propane (78-87-5)						
16V. 1,3-Dichloro- propylene (542-75-6)						
17V. Ethylbenzene. (100-41-4)						
18V. Methyl Bromide (74-83-9)						
19V. Methyl Chloride (74-87-3)						
20V. Methylene Chloride (75-09-2)						
21V. 1,1,2,2-Tetra- chloroethane (79-34-5)						
22V. Tetrachloro- ethylene(127-18-4)						
23V. Toluene (108-88-3)						
24V. 1,2-Trans- Dichloroethylene (156-60-5)						
25V. 1,1,1-Tri- chloroethane (71-55-6)						

26V. 1,1,2-Trichloroethane (79-00-5)						
27V. Trichloroethylene(79-01-61)						
28V. Vinyl Chloride(75-01-4)						

**Section XVII C: Intake and Effluent Characteristics - Table C Acid Compounds**

<input type="checkbox"/> Check for Storm Water only outlet.									
1. POLLUTANT and CAS NO. (if available)	2. SELECT			3. EFFLUENT					
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)	
				(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC	(2) MASS
<b>GC/MS FRACTION - ACID COMPOUNDS</b>									
1A. 2-Chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
2A. 2,4-Dichlorophenol (120-83-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
3A. 2,4-Dimethylphenol (105-67-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
4A. 4,6-Dinitro-O-Cresol (534-52-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
5A. 2,4-Dinitrophenol (51-28-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
6A. 2-Nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
7A. 4-Nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
8A. P-Chloro-M-Cresol (59-50-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
9A. Pentachlorophenol (87-86-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
10A. Phenol (108-95-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<0.002	<0.00024	<0.002	<0.00024	n/a	n/a
11A. 2,4,6-Trichlorophenol (88-06-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						

1.POLLUTANT and CAS NO. (if available)	3.EFFLUENT d. No. OF ANALYSES	4.UNITS (specify if blank)		5.INTAKE (optional)		
		a. CONC	b. MASS	a. LONG TERM AVG. VALUE		b. No. OF ANALYSES
				(1) CONC	(2) MASS	
<b>GC/MS FRACTION - ACID COMPOUNDS</b>						
1A. 2-Chlorophenol (95-57-8)						
2A. 2,4-Dichloro- phenol (120-83-2)						
3A. 2,4-Dimethyl- phenol (105-67-9)						
4A. 4,6-Dinitro- O-Cresol (534-52-1)						
5A. 2,4-Dinitro- phenol (51-28-5)						
6A. 2-Nitro-phenol (88-75-5)						
7A. 4-Nitro-phenol (100-02-7)						
8A. P-Chloro- M-Cresol (59-50-7)						
9A. Pentachloro- phenol (87-86-5)						
10A. Phenol (108-95-2)	1	mg/L	Lbs./Day	n/a	n/a	n/a
11A. 2,4,6-Tri- chlorophenol (88-06-2)						

**Section XVII C: Intake and Effluent Characteristics - Table C Base/Neutral Compounds**

		<input type="checkbox"/> Check for Storm Water only outlet.								
1. POLLUTANT and CAS NO. (If available)	2. SELECT			3. EFFLUENT						
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		
				(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS										
1B. Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
2B. Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
3B. Anthracene (120-12-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
4B. Benzidine (92-87-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
5B. Benzo (a) Anthracene (56-55-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
6B. Benzo(a)Pyrene (50-32-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
7B. 3,4-Benzo-fluoranthene (205-99-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
8B. Benzo (ghi) Perylene (191-24-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
9B. Benzo (k) Fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
10B. Bis(2-Chloro-ethoxy) Methane (111-91-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
11B. Bis(2-Chloro-ethyl) Ether(111-44-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
12B. Bis(2-Chloro-isopropyl) Ether(39638-32-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
13B. Bis(2-Ethyl-hexyl) Phthalate(117-81-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
15B. Butyl Benzyl Phthalate (85-86-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
16B. 2-Chloro-naphthalene (91-58-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
18B. Chrysene (218-01-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
19B. Dibenzo (a,h) Anthracene (53-70-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
20B. 1,2-Dichloro-benzene(95-50-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
21B. 1,3-Dichloro-benzene (541-73-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
22B. 1,4-Dichloro-benzene (106-46-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
23B. 3,3-Dichloro-benzidine (91-94-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							
24B. Diethyl Phthalate (84-66-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>							

25B. Dimethyl Phthalate (131-11-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
26B. Di-N-Butyl Phthalate (84-74-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
27B. 2,4-Dinitro-toluene (121-14-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
28B. 2,6-Dinitro-toluene (206-20-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
29B. Di-N-Octyl Phthalate (117-84-0)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
30B. 1,2-Diphenylhydrazine (as Azobenzene)(122-66-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
31B. Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
32B. Fluorene (86-73-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
33B. Hexa-chlorobenzene (118-71-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
34B. Hexa-chlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
35B. Hexachloro-cyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
36B. Hexachloro-ethane (67-72-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
38B. Isophorone (78-59-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
39B. Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
40B. Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
41B. N-Nitrosodimethylamine(62-75-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
42B. N-Nitrosodi-N-Propylamine (621-64-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
43B. N-Nitrosodiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
44B. Phenanthrene (85-01-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
45B. Pyrene (129-00-0)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						

1.POLLUTANT and CAS NO. (If available)	3. EFFLUENT d. No. OF ANALYSES	4.UNITS (specify if blank)		5.INTAKE (optional)		
		a. CONC	b. MASS	a. LONG TERM AVG. VALUE		b. No. OF ANALYSES
				(1) CONC	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS						
1B. Acenaphthene (83-32-9)						
2B. Acenaphthylene (208-96-8)						
3B. Anthracene (120-12-7)						
4B. Benzidine (92-87-5)						
5B. Benzo (a) Anthracene (56-55-3)						
6B. Benzo(a)Pyrene (50-32-8)						
7B. 3,4-Benzo-fluoranthene (205-99-2)						
8B. Benzo (ghi) Perylene (191-24-2)						
9B. Benzo (k) Fluoranthene (207-08-9)						
10B. Bis(2-Chloro-ethoxy) Methane (111-91-1)						
11B. Bis(2-Chloro-ethyl) Ether(111-44-4)						
12B. Bis(2-Chloro-isopropyl) Ether(39638-32-9)						
13B. Bis(2-Ethyl-hexyl) Phthalate(117-81-7)						
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)						
15B. Butyl Benzyl Phthalate (85-86-7)						
16B. 2-Chloro-naphthalene (91-58-7)						
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)						
18B. Chrysene (218-01-9)						
19B. Dibenzo (a,h) Anthracene (53-70-3)						
20B. 1,2-Dichloro-benzene(95-50-1)						
21B. 1,3-Dichloro-benzene (541-73-1)						
22B. 1,4-Dichloro-benzene (106-46-7)						
23B. 3,3-Dichloro-benzidine (91-94-1)						
24B. Diethyl Phthalate (84-66-2)						
25B. Dimethyl Phthalate (131-11-3)						
26B. Di-N-Butyl Phthalate (84-74-2)						
27B. 2,4-Dinitro-toluene (121-14-2)						
28B. 2,6-Dinitro-toluene (206-20-2)						



29B. Di-N-Octyl Phthalate (117-84-0)						
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene)(122-66-7)						
31B. Fluoranthene (206-44-0)						
32B. Fluorene (86-73-7)						
33B. Hexa-chlorobenzene (118-71-1)						
34B. Hexa- chlorobutadiene (87-68-3)						
35B. Hexachloro- cyclopentadiene (77-47-4)						
36B. Hexachloro-ethane (67-72-1)						
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)						
38B. Isophorone (78-59-1)						
39B. Naphthalene (91-20-3)						
40B. Nitrobenzene (98-95-3)						
41B. N-Nitro- sodimethylamine(62-75-9)						
42B. N-Nitrosodi- N-Propylamine (621-64-7)						
43B. N-Nitro- sodiphenylamine (86-30-6)						
44B. Phenanthrene (85-01-8)						
45B. Pyrene (129-00-0)						
46B. 1,2,4-Tri- chlorobenzene (120-82-1)						

**Section XVII C: Intake and Effluent Characteristics - Table C Pesticides**

<input type="checkbox"/> Check for Storm Water only outlet.									
1. POLLUTANT and CAS NO. (if available)	2. SELECT			3. EFFLUENT					
	a. Testing Required	b. Believed Present	c. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)	
				(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC	(2) MASS
GC/MS FRACTION - PESTICIDES									
1P. Aldrin (309-00-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
2P. -BHC (319-84-6)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
3P. -BHC (319-85-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
4P. -BHC (58-89-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
5P. -BHC (319-86-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
6P. Chlordane (57-74-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
7P. 4,4-DDT (50-29-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
8P. 4,4-DDE (72-55-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
9P. 4,4-DDD (72-54-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
10P. Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
11P. -Endosulfan (115-29-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
12P. -Endosulfan (115-29-7)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
13P. Endosulfan Sulfate (1031-07-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
14P. Endrin (72-20-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
15P. Endrin Aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
16P. Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
17P. Heptachlor Epoxide (1024-57-3)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
18P. PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
19P. PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
20P. PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
21P. PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
22P. PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
23P. PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						
24P. PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>						

25P. Toxaphene  
(8001-35-2)

<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>					
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1.POLLUTANT and CAS NO. (if available)	3.EFFLUENT d. No. OF ANALYSES	4.UNITS (specify if blank)		5.INTAKE (optional)		b. No. OF ANALYSES
		a. CONC	b. MASS	a. LONG TERM AVG. VALUE (1) CONC	(2) MASS	
GC/MS FRACTION - PESTICIDES						
1P. Aldrin (309-00-2)						
2P. -BHC (319-85-7)						
3P. -BHC (319-85-7)						
4P. -BHC (58-89-9)						
5P. -BHC (319-86-8)						
6P. Chlordane (57-74-9)						
7P. 4,4-DDT (50-29-3)						
8P. 4,4-DDE (72-55-9)						
9P. 4,4-DDD (72-54-8)						
10P. Dieldrin (60-57-1)						
11P. -Endosulfan (115-29-7)						
12P. -Endosulfan (115-29-7)						
13P. Endosulfan Sulfate (1031-07-8)						
14P. Endrin (72-20-8)						
15P. Endrin Aldehyde (7421-93-4)						
16P. Heptachlor (76-44-8)						
17P. Heptachlor Epoxide (1024-57-3)						
18P. PCB-1242 (53469-21-9)						
19P. PCB-1254 (11097-69-1)						
20P. PCB-1221 (11104-28-2)						
21P. PCB-1232 (11141-16-5)						
22P. PCB-1248 (12672-29-6)						
23P. PCB-1260 (11096-82-5)						
24P. PCB-1016 (12674-11-2)						
25P. Toxaphene (8001-35-2)						

**Section XVII D: Intake and Effluent Characteristics - Part D**

Check for no Storm Water.

Part D - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outlet. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite		
Oil and Grease						
Biological Oxygen demand (BOD5)						
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)						
Total Kjeldahl Nitrogen						
Nitrite plus Nitrate Nitrogen						
Total Phosphorus						
pH	Minimum		Maximum			

**Section XVII E: Intake and Effluent Characteristics - Part E**

Part E - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outlet. See instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite		
	N/A					

**Section XVII F: Intake and Effluent Characteristics - Part F**

Part F- List each pollutant shown in Table B and C of this application that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outlet.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite		
	N/A					

**Section XVII G: Intake and Effluent Characteristics - Part G**

Part G - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1.Date of Storm Event	2.Duration of Storm (in minutes)	3.Total Rainfall during storm event (in inches)	4.Number of days and/or hours between beginning of storm measured and the end of previous measurable rain event	5.Maximum during rain event (gallons/minute or specify units)	6.Total flow from rain event (gallons or specify units)	Season sample was taken	Form of Precipitation (rainfall, snowmelt)
10	N/A						

9. Provide a description of the method of flow measurement or estimate.

**Section XVII H: Intake and Effluent Characteristics - Part H**

Check if all believed Absent.

H. Select any of the pollutants listed below, which you know or have reasons to believe is discharged or may be discharged from any outlet. For every pollutant you select, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

	Bel- Pre- sent	Bel- eved Abs- ent	
<b>Toxic Pollutants</b>			
Asbestos	<input type="radio"/>	<input checked="" type="radio"/>	
<b>Hazardous Substances</b>			
Acetaldehyde	<input type="radio"/>	<input checked="" type="radio"/>	
Allyl alcohol	<input type="radio"/>	<input checked="" type="radio"/>	
Allyl chloride	<input type="radio"/>	<input checked="" type="radio"/>	
Amyl acetate	<input type="radio"/>	<input checked="" type="radio"/>	
Aniline	<input type="radio"/>	<input checked="" type="radio"/>	
Benzonitrile	<input type="radio"/>	<input checked="" type="radio"/>	
Benzyl chloride	<input type="radio"/>	<input checked="" type="radio"/>	
Butyl acetate	<input type="radio"/>	<input checked="" type="radio"/>	
Butylamine	<input type="radio"/>	<input checked="" type="radio"/>	
Captan	<input type="radio"/>	<input checked="" type="radio"/>	
Carbaryl	<input type="radio"/>	<input checked="" type="radio"/>	
Carbofuran	<input type="radio"/>	<input checked="" type="radio"/>	
Carbon disulfide	<input type="radio"/>	<input checked="" type="radio"/>	
Chlorpyrifos	<input type="radio"/>	<input checked="" type="radio"/>	
Coumaphos	<input type="radio"/>	<input checked="" type="radio"/>	
Cresol	<input type="radio"/>	<input checked="" type="radio"/>	
Crotonaldehyde	<input type="radio"/>	<input checked="" type="radio"/>	
Cyclohexane	<input type="radio"/>	<input checked="" type="radio"/>	
Strychnine	<input type="radio"/>	<input checked="" type="radio"/>	
Cyclohexane	<input type="radio"/>	<input checked="" type="radio"/>	
2,4-D(2,4-Dichlorophenoxy acetic acid)	<input type="radio"/>	<input checked="" type="radio"/>	
Diazinon	<input type="radio"/>	<input checked="" type="radio"/>	

Dicamba	<input type="radio"/>	<input checked="" type="radio"/>	
Dichlobenil	<input type="radio"/>	<input checked="" type="radio"/>	
Dichlone	<input type="radio"/>	<input checked="" type="radio"/>	
2,2-Dichloropropionic acid	<input type="radio"/>	<input checked="" type="radio"/>	
Dichlorvos	<input type="radio"/>	<input checked="" type="radio"/>	
Diethyl amine	<input type="radio"/>	<input checked="" type="radio"/>	
Dimethyl amine	<input type="radio"/>	<input checked="" type="radio"/>	
Dinitrobenzene	<input type="radio"/>	<input checked="" type="radio"/>	
Diquat	<input type="radio"/>	<input checked="" type="radio"/>	
Disulfoton	<input type="radio"/>	<input checked="" type="radio"/>	
Diuron	<input type="radio"/>	<input checked="" type="radio"/>	
Epichlorohydrin	<input type="radio"/>	<input checked="" type="radio"/>	
Ethanolamine	<input type="radio"/>	<input checked="" type="radio"/>	
Ethion	<input type="radio"/>	<input checked="" type="radio"/>	
Ethylene diamine	<input type="radio"/>	<input checked="" type="radio"/>	
Ethylene dibromide	<input type="radio"/>	<input checked="" type="radio"/>	
Formaldehyde	<input type="radio"/>	<input checked="" type="radio"/>	
Furfural	<input type="radio"/>	<input checked="" type="radio"/>	
Guthion	<input type="radio"/>	<input checked="" type="radio"/>	
Isoprene	<input type="radio"/>	<input checked="" type="radio"/>	
Isopropanolamine	<input type="radio"/>	<input checked="" type="radio"/>	
Kelthane	<input type="radio"/>	<input checked="" type="radio"/>	
Kepone	<input type="radio"/>	<input checked="" type="radio"/>	
Malathion	<input type="radio"/>	<input checked="" type="radio"/>	
Mercaptodimethur	<input type="radio"/>	<input checked="" type="radio"/>	
Methoxychlor	<input type="radio"/>	<input checked="" type="radio"/>	
Methyl mercaptan	<input type="radio"/>	<input checked="" type="radio"/>	
Methyl methacrylate	<input type="radio"/>	<input checked="" type="radio"/>	

Methyl parathion	<input type="radio"/>	<input checked="" type="radio"/>	
Mevinphos	<input type="radio"/>	<input checked="" type="radio"/>	
Mexacarbate	<input type="radio"/>	<input checked="" type="radio"/>	
Monoethyl amine	<input type="radio"/>	<input checked="" type="radio"/>	
Monomethyl amine	<input type="radio"/>	<input checked="" type="radio"/>	
Naled	<input type="radio"/>	<input checked="" type="radio"/>	
Napthenic acid	<input type="radio"/>	<input checked="" type="radio"/>	
Nitrotoluene	<input type="radio"/>	<input checked="" type="radio"/>	
Parathion	<input type="radio"/>	<input checked="" type="radio"/>	
Phenolsulfanate	<input type="radio"/>	<input checked="" type="radio"/>	
Phosgene	<input type="radio"/>	<input checked="" type="radio"/>	
Propargite	<input type="radio"/>	<input checked="" type="radio"/>	
Propylene oxide	<input type="radio"/>	<input checked="" type="radio"/>	
Pyrethrines	<input type="radio"/>	<input checked="" type="radio"/>	
Quinoline	<input type="radio"/>	<input checked="" type="radio"/>	
Resorcinol	<input type="radio"/>	<input checked="" type="radio"/>	
Strontium	<input type="radio"/>	<input checked="" type="radio"/>	
Strychnine	<input type="radio"/>	<input checked="" type="radio"/>	
Styrene	<input type="radio"/>	<input checked="" type="radio"/>	
2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)	<input type="radio"/>	<input checked="" type="radio"/>	
TDE (Tetrachlorodiphenyl ethane)	<input type="radio"/>	<input checked="" type="radio"/>	
2,4,5-TP (2-(2,4,5-Trichlorophenoxy propanic acid)	<input type="radio"/>	<input checked="" type="radio"/>	
Trichlorofon	<input type="radio"/>	<input checked="" type="radio"/>	
Triethanolamine	<input type="radio"/>	<input checked="" type="radio"/>	
Triethylamine	<input type="radio"/>	<input checked="" type="radio"/>	
Trimethylamine	<input type="radio"/>	<input checked="" type="radio"/>	
Uranium	<input type="radio"/>	<input checked="" type="radio"/>	



Vanadium	<input type="radio"/>	<input checked="" type="radio"/>	<input type="text"/>
Vinyl Acetate	<input type="radio"/>	<input checked="" type="radio"/>	<input type="text"/>
Xylene	<input type="radio"/>	<input checked="" type="radio"/>	<input type="text"/>
Xylenol	<input type="radio"/>	<input checked="" type="radio"/>	<input type="text"/>
Zirconium	<input type="radio"/>	<input checked="" type="radio"/>	<input type="text"/>

**Section XII: Certification**

**XII. CERTIFICATION** (see instructions)

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 upon 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. NAME

OFFICIAL TITLE

B. SIGNATURE \_\_\_\_\_

C. DATE SIGNED


**Please Print, Sign, Scan and attach this document rather than mailing as a wet ink signature is no longer required.**

**Section XIV: Flows, Sources of Pollution and Treatment Technologies**

**XIV. FLOWS, SOURCES OF POLLUTION AND TREATMENT TECHNOLOGIES**

A. Include with this application:

(1) A site layout drawing (see instructions for precise details);

(2) A line drawing showing the water flow through the facility (see details and Figure 1 of the instructions for an example); and  Figure 1

(3) Details and drawings of each treatment unit (see instructions for precise details).

B. For each outlet provide a description of: (1)(a) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff (including material handling and storage area run-off and areas where pesticides, herbicides, soil conditioners and fertilizers are applied); (1)(b) The average flow contributed by each operation; and (2) The treatment received by the wastewater. Use the table below to enter this information. For additional outlets click the **Add 1 Row** button.

	Outlet Number (list):	006
	<u>Operation(s) Contributing to Flow:</u>	
a.	Operation (list):	Sedimentation basin for closed landfill.
b.	Average Flow (mgd):	0.0569
a.	Treatment Description:	Sedimentation
b.	Treatment List Codes from Table 1 (see instructions):	1-U, 4-A
	Outlet Number (list):	LM1
	<u>Operation(s) Contributing to Flow:</u>	
a.	Operation (list):	See Comments for this section
b.	Average Flow (mgd):	0.00071
a.	Treatment Description:	Sedimentation
b.	Treatment List Codes from Table 1 (see instructions):	1-U, 4-A
	Outlet Number (list):	LM2
	<u>Operation(s) Contributing to Flow:</u>	
a.	Operation (list):	Landfill underdrain discharge
b.	Average Flow (mgd):	0.00148
a.	Treatment Description:	Sedimentation
b.	Treatment List Codes from Table 1 (see instructions):	1-U, 4-A
	Outlet Number (list):	MW101
	<u>Operation(s) Contributing to Flow:</u>	
a.	Operation (list):	n/a
b.	Average Flow (mgd):	n/a
a.	Treatment Description:	n/a
b.	Treatment List Codes from Table 1 (see instructions):	n/a
	Outlet Number (list):	MW102
	<u>Operation(s) Contributing to Flow:</u>	
a.	Operation (list):	n/a
b.	Average Flow (mgd):	n/a
a.	Treatment Description:	n/a
b.	Treatment List Codes from Table 1 (see instructions):	n/a
	Outlet Number (list):	MW103
	<u>Operation(s) Contributing to Flow:</u>	
a.	Operation (list):	n/a
b.	Average Flow (mgd):	n/a
a.	Treatment Description:	n/a
b.	Treatment List Codes from Table 1 (see instructions):	n/a

	Outlet Number (list):	MW104
	Operation(s) Contributing to Flow:	
a.	Operation (list):	n/a
b.	Average Flow (mgd):	n/a
a.	Treatment Description:	n/a
b.	Treatment List Codes from Table 1 (see instructions):	n/a
	Outlet Number (list):	MW105
	Operation(s) Contributing to Flow:	
a.	Operation (list):	n/a
b.	Average Flow (mgd):	n/a
a.	Treatment Description:	n/a
b.	Treatment List Codes from Table 1 (see instructions):	n/a
	Outlet Number (list):	MW106
	Operation(s) Contributing to Flow:	
a.	Operation (list):	n/a
b.	Average Flow (mgd):	n/a
a.	Treatment Description:	n/a
b.	Treatment List Codes from Table 1 (see instructions):	n/a

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items XIV-A or B intermittent or seasonal?

Yes (complete the following table)       No (go to Section XV)

1.	Outlet Number (list):	006
2.	Operation(s) Contributing Flow (list):	Sedimentation basin for closed landfill
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	See Comments for this section
b.	Months Per Year:	See Comments for this section
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	0.0569
2.	Max Daily:	0.216
b.	<u>Duration (in days):</u>	365
1.	Outlet Number (list):	LM1
2.	Operation(s) Contributing Flow (list):	Landfill sedimentation pond underdrain
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	See Comments for this section
b.	Months Per Year:	See Comments for this section
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	0.00071
2.	Max Daily:	0.00190
b.	<u>Duration (in days):</u>	<365
1.	Outlet Number (list):	LM2
2.	Operation(s) Contributing Flow (list):	Landfill underdrain leachate
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	7
b.	Months Per Year:	12
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	0.00148
2.	Max Daily:	0.00380
b.	<u>Duration (in days):</u>	365

1.	Outlet Number (list):	MW101
2.	Operation(s) Contributing Flow (list):	n/a
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	n/a
b.	Months Per Year:	n/a
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	n/a
2.	Max Daily:	n/a
b.	<u>Duration (in days):</u>	n/a
1.	Outlet Number (list):	MW102
2.	Operation(s) Contributing Flow (list):	n/a
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	n/a
b.	Months Per Year:	n/a
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	n/a
2.	Max Daily:	n/a
b.	<u>Duration (in days):</u>	n/a
1.	Outlet Number (list):	MW103
2.	Operation(s) Contributing Flow (list):	n/a
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	n/a
b.	Months Per Year:	n/a
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	n/a
2.	Max Daily:	n/a
b.	<u>Duration (in days):</u>	n/a

1.	Outlet Number (list):	MW104
2.	Operation(s) Contributing Flow (list):	n/a
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	n/a
b.	Months Per Year:	n/a
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	n/a
2.	Max Daily:	n/a
b.	<u>Duration (in days):</u>	n/a
1.	Outlet Number (list):	MW105
2.	Operation(s) Contributing Flow (list):	n/a
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	n/a
b.	Months Per Year:	n/a
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	n/a
2.	Max Daily:	n/a
b.	<u>Duration (in days):</u>	n/a
1.	Outlet Number (list):	MW106
2.	Operation(s) Contributing Flow (list):	n/a
3.	<u>Frequency (Avg):</u>	
a.	Days Per Week:	n/a
b.	Months Per Year:	n/a
4.	<u>Flow:</u>	
a.	<u>Flow Rate (mgd):</u>	
1.	Long Term Avg	n/a
2.	Max Daily:	n/a
b.	<u>Duration (in days):</u>	n/a

**Section XV: Effluent Guideline Information**

**XV. EFFLUENT GUIDELINE INFORMATION (see instructions)**

A. Does an effluent guideline limitation promulgated by EPA under 304 of the Clean Water Act apply to your facility?  
 Yes (complete Item XV-B&C)       No (go to Item XVI)

B. What specific effluent guideline(s) apply to your operation? Include appropriate subcategory of industry.  
 Steam Electric Generation 40CFR Part 423 and Part 125

C. Are limitations in the applicable effluent guideline expressed in terms of production?  
 Yes (complete XV-D)       No (go to Item XV-E)

D. List the quantity which represents an actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outlets. Please use the Quantity table below.  
*Please fill out the form below for each affected outlet*

E. Provide the appropriate basis for calculating guideline based effluent limitations.  
 Guidelines are concentration based.

1. MAXIMUM QUANTITY a. Quantity/day	1. MAXIMUM QUANTITY b. Units of Measure	1. MAXIMUM QUANTITY c. Operation, product, material, etc. (specify)	2. AFFECTED OUTLETS (list outlet numbers)
n/a	n/a	n/a	n/a

**Section XVI: Improvements**

**XVI. IMPROVEMENTS**

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.  
 Yes (complete the following table)       No (go to Item XVI-B)

1. Identification of Condition Agreement, etc:	
2. <u>Affected Outlets:</u>	
a. Number	
b. Source of Discharge	
3. Brief Description of Project	
4. <u>Final Compliance Date:</u>	
a. Required	
b. Projected	

**XVI B. OPTIONAL:** You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.  
 If description of additional control programs is attached.  Paper  Electronic

**Section XVIII: Potential Discharges not Covered by Analysis**

**XVIII. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS**

A. Provide a list of any toxic pollutant not otherwise listed in Item XVII-C which you do or expect that you will over the next 5 years use or manufacture as an immediate of final product or byproduct. Also list sources and expected levels of such pollutants and provide MATERIAL SAFETY DATA SHEETS (MSDS) for each pollutant listed. Continue on additional sheets if necessary.

None: Landfill closure was completed in 2014.

B. Provide a listing and frequency of all chemical or treatment agents used in cooling water systems, boiler water systems, well redevelopment operations, and each wastewater treatment system utilized. Also list all pesticides, herbicides, soil conditioners and fertilizers used at this site, and provide MSDS Sheets for each agent list. Continue on additional sheets if necessary.

None: Landfill closure was completed in 2014.

**Section XIX: Biological Toxicity Testing Data**

**XIX. BIOLOGICAL TOXICITY TESTING DATA**

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

Yes (Identify the test(s) and describe their purpose)       No (go to Item XX)

Acute Toxicity is performed bi-annually on the 006 Outlet effluent for Ceriodaphnia dubia and Pimephales promelas with results provided on DMRs.

Or, you can attach a document:  Paper       Electronic

**Section XX: Sampling and Analysis Information**

**XX. SAMPLING AND ANALYSIS INFORMATION**

A. Sampling Method: Briefly describe procedure followed including type of equipment or collection apparatus used.

Grab sample: Individual samples collected in less than 15 minutes using appropriate containers and preservatives.

B. Were sample preservatives used?  Yes       No

C. Was the latest approved edition of Standard Methods used during analysis?

Yes (go to XX-E)       No (complete Item XX-D)

D. Describe method used during analysis.

EPA 40CFR Part 136 methods were used with samples analyzed within appropriate hold times.



E.Outlet Sampled    F.Time Sampled    G.Date Sampled    H.Date Analyzed    I.Name and Address of Laboratory

006	0831	6/19/2019	id	6/19/2019	id	FirstEnergy Beta Laboratory, 6670 Beta Drive, Mayfield Village, OH 44143 WVDEP Lab ID No. 377 Reliance Laboratories - Bridgeport, P.O. Box 4657, Bridgeport, WV 26330-4657 WVDEP Lab ID No. 158
006	0831	6/19/2019	id	6/20/2019	id	Reliance Laboratories - Bridgeport, P.O. Box 4657, Bridgeport, WV 26330-4657 WVDEP Reliance Laboratories - Bridgeport, P.O. Box 4657, Bridgeport, WV 26330-4657 WVDEP Lab ID No. 158 Lab ID No. 158
006	0831	6/19/2019	id	6/25/2019	id	Geochemical Testing, 2005 N. Center Ave., Somerset, PA 15501 WVDEP ID# 141
006	0831	6/19/2019	id	6/24/2019	id	FirstEnergy Beta Laboratory, 6670 Beta Drive, Mayfield Village, OH 44143 WVDEP Lab ID No. 377 Reliance Laboratories - Bridgeport, P.O. Box 4657, Bridgeport, WV 26330-4657 WVDEP Lab ID No. 158
006	0831	6/19/2019	id	7/5/2019	id	Reliance Laboratories - Bridgeport, P.O. Box 4657, Bridgeport, WV 26330-4657 WVDEP Lab ID No. 158
006	0831	6/19/2019	id	6/26/2019	id	FirstEnergy Beta Laboratory, 6670 Beta Drive, Mayfield Village, OH 44143 WVDEP Lab ID No. 377
006	0831	6/19/2019	id	7/10/2019	id	FirstEnergy Beta Laboratory, 6670 Beta Drive, Mayfield Village, OH 44143 WVDEP Lab ID No. 377

J. Has the laboratory in Item XX-I received any required certification to perform the waste analysis associated with this application?  
 Yes (complete Item XX-K)  No (go to Item XX-L)

K. Provide the name and address of certifying agency.  
 WVDEP Lab Certifications:  
 Beta: 377 Reliance-Bridgeport: 158 Geochemical Testing: 141

L. Has any Performance Audit Inspection (PAI) been performed at the laboratory listed in Item XX-I?  
 Yes (complete Item XX-M)  No (go to Item XXI)

M. Provide the name and address of the agency conducting the audit and the date of the most recent audit performed.  
 WVDEP Lab Certification Inspections were last performed at Beta Lab on August 29-30, 2018 by Tommy W. Smith III, at Reliance Lab on January 29, 2019, and at Geochemical Testing on 7/16-17-18/2019.

**Section XXI: Sludge Disposal**

Does or will your facility generate sludges, other solid wastes, or other pollutants for disposal?  
 Yes (complete A and B below)  No (go to XXII)

A. Describe method of disposal (landfill, incineration, other)  
 Site is a closed landfill. Closure was completed in 2014.

B. Submit name, location, Agency issuing permit for landfill and attach letter of acceptance of wastes from disposal operator if other than "on-site".  
 In the event that any materials are generated by this closed landfill they will be disposed of at a landfill approved for their disposal in accordance with applicable WVDEP rules.

**Section XXI Waste: Industrial Solid Waste Disposal Facility**

A. Is this application being submitted to obtain a permit to operate and/or monitor an Industrial Solid Waste Disposal Facility?  
 Yes  No  
 Please complete and attach the Application Requirements for a Class F Industrial Solid Waste Facility document.

**Section XXII: Operation and Maintenance**

A. Has a Best Management Practice (BMP) plan been developed for your facility?  
 Yes  No

B. Specify a plan of maintenance for each treatment unit described in Item XIV-B.  
 Or, attach a document  Paper  Electronic

1. Outlet Number	2. Treatment Unit	3. Plan of Maintenance
006	Sedimentation	Dredge when approximately 60% full.

C. Describe means of coping with inplant spills and upsets and practices to be employed during idle periods caused by power failures, repairs, etc. in the treatment units.  
 Not applicable

D. Describe provisions for coping with spills at barge, rail or truck loading and unloading facilities.  
 Not applicable

The Monongahela Power Company, of which I am an  
name of company or facility  
authorized representative, has applied for a West Virginia National Pollutant Discharge Elimination System  
permit from the West Virginia Department of Environmental Protection, Division of Water Resources. Under  
the West Virginia Legislative Rules, Title 33, Series I, Section 3.21.3.b, the costs of publishing a Class II  
legal advertisement are to be paid by the applicant who must also send the certificate of publication to the  
Division of Water Resources within twenty (20) days after publication.

The Monongahela Power Company, hereby agrees to pay  
name of company or facility  
the cost of such legal advertisement. The publishing newspaper should send the certificate of publication and  
bill to, company or facility name and address:

Name:	<u>Monongahela Power Company</u>		
Line 1:	<u>800 Cabin Hill Drive</u>		
Line 2:	<u>ATTN: W.E. CANNON</u>		
Country:	<u>United States of America</u>	v	
City:	<u>Greensburg</u>		
State:	<u>Pennsylvania</u>	v	
Zip:	<u>15601</u>	<u>PostalCode Ref.</u>	

William E. Cannon 724 838-6018 (###-###-####)  
authorized representative area code phone number

\_\_\_\_\_  
Signature of Authorized Representative

Sworn and subscribed to before  
me this \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Commission Expires