

**WEST VIRGINIA ENVIRONMENTAL QUALITY BOARD**  
**CHARLESTON, WEST VIRGINIA**

RECEIVED  
SEP 17 2025  
Environmental Quality  
Board

**APPALACHIAN POWER COMPANY, dba AEP**

**Appellant,**

**v.**

**Appeal No.**

25-08-EQB

**DIRECTOR, DIVISION OF WATER and WASTE MANAGEMENT,**

**DEPARTMENT OF ENVIRONMENTAL PROTECTION,**

**Appellee.**

**NOTICE OF APPEAL**

The Appellant Appalachian Power Company (APCo"), doing business as AEP, ("Appellant" "AEP" or the "Company"), respectfully represent(s) that it is aggrieved by certain terms and conditions contained in final WV Solid Waste Permit SWF-9013/ NPDES Permit No. WV0116254, Issued on August 15, 2025, for the John E. Amos Landfill. Exhibit A. On July 21, 2025 timely comments were filed by APCo concerning the draft permit. Exhibit B. A copy of this permit was received by email to David A. Miller, Director, Ash Management Services, American Electric Power, on August 18, 2025, and this appeal is timely per Section 21, Article 11, Chapter 22 of the Code of West Virginia, as it is filed within thirty (30) days after the date of receipt of the permit.

**Relief Requested:** The appellant therefore prays that this matter be reviewed and that the Board grant the following relief by amending the permit to revise or eliminate those conditions described in the Specific Objections.

**Specific Objections:** The specific objections to the action, including questions of fact and law to be determined by the Board, are set forth in detail in separate numbered paragraphs and attached hereto as Attachment A. The objections may be factual or legal and are summarized in Attachment B.

Dated this 17th day of September, 2025.

A handwritten signature in blue ink, reading "Kathy G. Beckett", is written over a horizontal line.

Kathy G. Beckett, WVBN 4998  
STEPTOE & JOHNSON, PLLC  
707 Virginia Street, East  
Charleston, West Virginia 25326  
(304) 353-8172  
Counsel for Appalachian Power Company dba AEP

## **ATTACHMENT A**

### **GENERAL OBJECTIONS**

1. WVDEP has issued this permit utilizing various citations to federal and state law, creating a patchwork of authorizations that are invoked in an unlawful, unreasonable, arbitrary and capricious manner imposing requirements more stringent than federal law without appropriate justification, per W. Va. Code § 22-1-3a.
2. The Permit references requirements applicable to Legacy CCR surface impoundments, which are provisions of federal law adopted in 2024 at 89 Fed. Reg. 38,950 (May 8, 2024) (“Legacy Rule”) and not incorporated into 33 CSR 1B. Even if the Secretary has authority to administer, as a matter of state law, aspects of the federal CCR Rule that were incorporated into 33 CSR 1B by reference, which we do not concede, it is obvious that the provisions of 40 CFR Part 257, Subpart D that have been adopted or amended by US EPA after the Secretary’s 2021 incorporation by reference of federal CCR Rule requirements into 33 CSR 1B are not part of the West Virginia Code of State Regulations and the Secretary has no authority to reference them in a permit let alone to enforce them as a matter of state law. This permit includes provisions that are unlawful, unreasonable, arbitrary and capricious references to federal law not incorporated by reference into 33 CSR 1B.

### **SPECIFIC PERMIT CONDITIONS ON APPEAL:**

1. Part I, Section B. Management Requirements
  - a. Part I, Section I.B.1.e.1 imposes a requirement for an annual operations report per 33 CSR 1. As noted in APCo’s comments to the draft permit, this requirement is redundant and conflicts with the obligation for annual reports contained in the federal CCR Rule

and state rule at 33 CSR 1B and as such is unreasonable, unlawful, arbitrary and capricious. Exhibit B, p. 2.

- b. Part I, Sections I.B.1.e.5 through 1.e.7 impose requirements derived from the federal Legacy CCR Rule. As noted in APCo's comments, federal Legacy CCR rule requirements, adopted in 2024, are not part of the version of 40 CFR Part 257, Subpart D incorporated by reference into 33 CSR 1B, meaning WVDEP has no authority to impose these requirements. Imposition of these permit conditions is unreasonable, unlawful, arbitrary and capricious. Exhibit B, p. 3 – 4.

- 2. Part I, Section I.F and Section V.C.8. Vector/Pest Control Plan. A Vector/Pest control plan is not required by the federal CCR Rule or state rule at 33 CSR 1B and has never been a requirement in any past permits issued to APCo for this landfill. As noted in APCo's comments to the draft permit, CCR landfills contain no organic waste likely to attract vectors/pests and this condition is therefore unreasonable, unlawful, arbitrary and capricious in this context. Exhibit C. p. 6. The federal CCR Rule, and its requirements that WV DEP has incorporated by reference, provides adequate inspection requirements to ensure that nuisance conditions do not exist.

- 3. Part I, Section III, Waste Screening Activities. APCo filed comments to the draft permit noting waste characterization for CCR is not part of either the federal or state regulatory requirements and should be removed from the permit. Exhibit B, p. 7. The final permit imposes a requirement to perform a routine review of incoming solid waste and analyses including quarterly TCLP RCRA metals, pH, and total or leaching analysis for PCDD, PCDF, 2,3,7,8-TCDD, PAH, PCB. Historically, TCLP analysis of the ash has been provided in permit

renewal cycles. Approval for non-ash material has been requested based on waste classification, which is sometimes TCLP and sometimes generator knowledge/material safety data sheets. Any waste disposed in the landfill originates from APCo facilities, and as generator, transporter, disposer and owner/operator, APCo has knowledge of its characteristics. CCR is codified as non-hazardous waste under RCRA and WVDEP has adopted that by reference. Additional waste characterization above and beyond what is required by the federal CCR Rule is unreasonable, unlawful, arbitrary and capricious. Id. Moreover this condition now, for the first time, imposes specific worker training requirements and only allows trained workers to conduct the inspection. This, too, is a requirement that does not exist in the federal CCR Rule and is more stringent than the federal CCR Rule. APCo will need time to develop and implement worker training in order to satisfy this new condition.

4. Part I, Section V, Closure of Disposal Areas. In response to APCo's comments to the draft permit, West Virginia DEP notes that "[t]he Closure Plan incorporated into the permit in 2017 was erroneously reviewed for compliance under State CCR Rules. The plan does not comply with the 40 CFR 257(d)(2) Performance Standard concerning 'Drainage and Stabilization of CCR Units'. This requirement applies to any CCR Unit, not just Surface Impoundments. Exhibit B, p. 7. As such, it cannot be incorporated into the permit and/or approved at this time." APCo maintains it is unreasonable, arbitrary and capricious for WVDEP to now state that there is no closure plan for this unit, where WVDEP has previously indicated closure activities initiated pursuant to the 2017 Closure Plan were permitted.
  - a. Permit condition I.V.A.2 requires closure certification to be submitted to the Secretary via a major modification to the permit. Yet 33 CSR 1-6.1.g and h require only that a

professional engineer inspect the closure and certify it was completed in accordance with the closure plan and then submitted to the Secretary for approval. The rule does not require that this be submitted as a major modification, and APCo has submitted previous cell construction and closure documents via electronic submission system (ESS), or as a hard copy, without permit modification. Requiring that closure certifications be treated as major modifications is an unreasonably, unlawful, arbitrary and capricious requirement not based in law or regulation.

- b. Permit condition I.V.A.6 states that “no closure plans have been approved for this facility.” APCo maintains that this is factually and legally inaccurate. APCo submitted a qualifying closure plan modification in the 2017 permit renewal, which met the requirements of both the state solid waste rules and federal CCR rules. That permit renewal/modification was accepted by the agency. APCo also has a closure plan posted to its public CCR website which meets the requirements of the federal CCR rule. Additionally, after the 2017 renewal/modification was accepted and became effective, APCo closed a portion of the Sequence 3 area, submitted the PE certification, and subsequently received approval in 2025 via this permit application. The permit should reflect that the 2017 closure plan, which included QAQC and other items in appendices, has been approved.
- c. The 2017 permit renewal/modification should be incorporated into section I.V.B.2 as the approved final cover for the entire landfill (Sequences 1-9), as mentioned above. Failure to reference this is unreasonable, unlawful, arbitrary and capricious.
- d. Permit condition I.V.C.1.c states that “no post-closure care plans have been approved for this facility.” APCo notes that pursuant to the federal CCR Rule, a Post Closure Care plan is posted online, and should be referenced as the post-closure plan for this facility.

Requiring something different or more than what the federal CCR Rule requires is unreasonable, unlawful, arbitrary and capricious.

5. Part II, Section A of the permit adds a number of parameters that APCo is required to monitor and report on, as shown in the table, below.

| <b>Outlets 001, 002, 007</b> | <b>Outlets 003, 004, 005, 006</b>       |
|------------------------------|-----------------------------------------|
| Arsenic                      | added parameters of 001, 002, 007 plus: |
| Aluminum                     | Mercury                                 |
| Selenium                     | Sulfate                                 |
| Magnesium                    | Iron                                    |
| Titanium                     | COD                                     |

Although requested to provide justification for the added parameters in APCo's comments, WVDEP only stated the parameters were reported present in the discharge(s). The 2016 application included no data for Outlets 002, 003 and 004 to show presence in the discharge. Therefore, these parameters were not analyzed nor reported in the permit application for these outlets. For the parameters detected in Outlets 001, 005 and 006 that were reported in the application, no waste load allocation was provided to justify the inclusion of these new parameters. And as such, this constitutes an unreasonable, unlawful, arbitrary and capricious new requirement

- a. Part II, Section C.4.c imposes a magnesium benchmark value of 78.8 mg/L applicable to stormwater discharges. APCo's comments to the draft permit addressed the need to modify the magnesium benchmark value. Exhibit B, p. 10. Per the Worley Consulting analyses, American Electric Power Service Corporation NPDES Toxicity Review, Table 4-1, this limit is based on a 7-day LC50 for *Hyaella Azteca* (788 mg/L)/10: this value was derived using the second lowest value of reported static tests and used a 1:1 sulfuric

acid magnesium salt, essentially a mixture of magnesium and sulfate. As noted in Worley Consulting, American Electric Power Service Corporation NPDES Toxicity Review, pp. 15, 31 (30 August 2024), previously submitted to WVDEP, 82 mg/L is the appropriate limit. The NPDES Toxicity Review cited published studies that support the minimal aquatic toxicity effect of magnesium, and this value was derived in a manner consistent with that set forth in WV Code §47-2-9, Establishment of Safe Concentration Values: when a specific water quality standard has not been established by these rules and there is a discharge or proposed discharge into waters of the State, the use of which has been designated a Category B1, B2, B3 or B4, such discharge may be regulated by the Secretary where necessary to protect State waters through establishment of a safe concentration value as follows:

9.1. Establishment of a safe concentration value shall be based upon data obtained from relevant aquatic field studies, standard bioassay test data which exists in substantial available scientific literature, or data obtained from specific tests utilizing one (1) or more representative important species of aquatic life designated on a case-by-case basis by the Secretary and conducted in a water environment which is equal to or closely approximates that of the natural quality of the receiving waters.

6. Part II, Section D.2.a.1 and 2 requires APCo to evaluate all wells. Using interwell statistical analyses. APCo has requested to evaluate statistically with intrawell statistics. The wells were installed prior to waste placement, with the exception of MW-1801 and 1802. There are no impacts to the down gradient monitoring wells, there is spatial variability in the

groundwater chemistry, and the Unified Guidance allows for intrawell statistics as a valid statistical method. The DEP's failure to allow the use of intrawell statistics is unlawful, unreasonable, arbitrary and capricious. This change in methodology imposes compliance burdens upon APCo in light of the fact that all analyses required by prior permits, and our federal CCR rule analyses, have all been based on intrawell analysis.

**Attachment B**  
**Questions of Fact and Law**

1. Does the permit improperly cite to federal and state law in a manner that creates a patchwork of regulations and CCR landfill permitting requirements resulting in a program that is more stringent than the federal CCR program that is arbitrary, capricious or contrary to law?
2. Does the permit impose redundant and conflicting annual operations report obligations as compared to the federal CCR Rule and state rule 33 CSR 1B?
3. Does the permit improperly impose requirements from the federal Legacy CCR rule, 89 Fed. Reg. 38,950 (May 8, 2024) that is not incorporated into current federal or state law?
4. Does the permit improperly require a Vector/Pest Control Plan that is not required by federal or state CCR law?
5. Does the permit improperly require review of CCR waste stream characteristics not required by federal or state CCR law?
6. Does the permit improperly require worker training for waste stream inspections not required by federal or state CCR law and that does not allow for a proper time for implementation?
7. Does the permit improperly address the existing Closure Plan for this landfill?
8. Does this permit improperly require closure certification by a major permit modification in a manner inconsistent with the law?
9. Does this permit improperly assert that “no closure plans have been approved for this facility”?

10. Should this permit incorporate the 2017 permit renewal/modification as a matter of law?
11. Should WVDEP be required to justify the inclusion of benchmark stormwater requirements for Arsenic, Aluminum, Selenium, Magnesium, and Titanium?
12. Should WVDEP have accepted as proper the magnesium limit of 82 mg/L as studied and timely presented by the permittee?
13. Does the permit improperly fail to include intrawell statistics to facilitate Detection and Assessment and should additional implementation timelines be incorporated within the permit to allow for clarification of the requirements?

**WEST VIRGINIA ENVIRONMENTAL QUALITY BOARD**  
**CHARLESTON, WEST VIRGINIA**

**APPALACHIAN POWER COMPANY,  
dba AEP**

**Appellant,**

**v.**

**Appeal No.** 25-08-EOB

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

**Appellee,**

**CERTIFICATE OF SERVICE**

I, Kathy G. Beckwith, do hereby certify that a true and exact copy of the

foregoing NOTICE OF APPEAL was caused to be served upon the following via hand delivery

this 17<sup>th</sup> day of September 2025.

Jeremy Bandy, Director  
Division of Water and Waste Management  
WV Department of Environmental Protection  
601 - 57th Street SE  
Charleston, WV 25304 – 2345

Office of Legal Services  
Department of Environmental Protection  
601 - 57th Street SE  
Charleston, WV 25304 – 2345

Dated this 17th day of September, 2025.

A handwritten signature in blue ink, reading "Kathy G. Beckett", is written over a horizontal line.

Kathy G. Beckett, WVBN 4998  
STEPTOE & JOHNSON, PLLC  
707 Virginia Street, East  
Charleston, West Virginia 25326  
(304) 353-8172  
Counsel for Appalachian Power Company dba AEP



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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57th St. SE  
Charleston, WV 25304  
telephone: (304) 926-0495  
fax: (304) 926-0463

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

August 15, 2025

David A. Miller  
Director of Environmental  
1 Riverside Plaza  
Columbus, OH 43215

RE: John E. Amos Landfill  
WV Solid Waste / NPDES Permit No.  
SWF-9013 / WV0116254

Dear Permittee:

Enclosed please find WV Solid Waste/NPDES Permit Number SWF-9013 / WV0116254 dated August 15, 2025. Please note that a Discharge Monitoring Report (DMR) is to be completed and submitted to this Division semiannually.

Appalachian Power Company's comments were received by letter dated July 21, 2025. The following is the agency's response to these comments regarding the draft permit that went to public notice on June 5, 2025.

**Comment No. 1 and 9: Additional types of solid waste authorized**

The requested section(s) have been revised. Please note; however, that disposal of hydrated lime at the facility must comply with the corrosivity limitations on Page 2 and Part I, Section III. The documentation submitted with the comments was not certified by a licensed professional engineer (PE). The PE must certify that all liners and landfill structures and appurtenances, as installed, that have a potential to come into contact with leachate from bulk hydrated lime disposal with pH above 12.5 s.u. are compatible and that contact of leachate with CCR materials will not lead to an exceedance of any applicable leachate disposal limitations (i.e. in WV/NPDES Permit No. WV0001074).

**Comment No. 2: Part I, Section I.A.9**

The requested section has been revised.

**Comment No. 3, 4, and 10: Part I, Section I.B.1.b, I.B.1.e.1 and 33 CSR 1 Waivers**

Promoting a healthy environment.

The requested waivers have been granted in Part I, Section, B.4. Additional language has been included to indicate that these waivers cannot supersede any requirement in 40 CFR 257.

**Comment No. 5, 6, 7: Applicability of the CCR Rule (40 CFR 257), Part I, Section(s) I.B.1.e.5-7**

The CCR is self implementing at the federal level; however, 40 CFR 257 is not self implementing at the State level. The federal CCR rule was incorporated into 33 CSR 1 by reference via 33 CSR 1B. As such the CCR definition(s) and requirements have become State requirements specifically for CCR facilities and a permit is required under the State permitting requirements in 33 CSR 1, Section 3.5.a. The permit must ensure, per 33 CSR 1, Section 3.1.e.1, that the solid waste facility / permittee comply with any and all applicable Federal and State laws, rules, regulations or other requirements.

The comment is correct, the State does not currently have primacy to issue CCR permits, so please note that since the State of WV does not have regulatory primacy for CCR facilities, if USEPA promulgates federal permitting requirements and issues the facility a permit, the facility would have to comply with both permits. This State permit is designed to prevent conflicts to all extents reasonably possible and in the event that EPA imposes a conflicting requirement the permittee may request modification of this permit to resolve any inconsistencies.

**Comment No. 8: Rented equipment for general maintenance**

The requested section has been revised.

**Comment No. 11: CCR Operating Record Requirement**

The requested section has been revised.

**Comment No. 12 and 35: Electronic Submission System (ESS and eDMR)**

The requested section(s) have been revised. The permittee may use ESS and eDMR to submit monitoring required by the permit.

**Comment No. 13: Part I, Section I.C.1**

The requested section has been revised.

**Comment No. 14: Part I, Section I.E.4**

The requested section(s) have been revised.

**Comment No. 15 and 21: Part I, Section I.F and Section V.C.8**

Organic material is not the only vector / pest producing source that can occur at a solid waste landfill. Standing and entrained water (i.e. propagation of mosquitos, etc) and infiltration of burrowing animals into site structures can occur also without proper prevention. The permittee is required to ensure that these situations do not occur at the facility by having plans in place to prevent their occurrence to all extents possible.

**Comment No. 16: Daily and Intermediate Cover**

The subject requirement references the approved Fugitive Dust Control Plan. If the plan has a requirement to install daily and intermediate cover then the permittee is required to perform those actions. If daily and intermediate cover is not required to control dust emissions then daily and intermediate cover is not required. In general, the agency believes that daily and intermediate cover is a sound engineering practice at most landfills and is encouraged as a routine practice. The condition has not been removed.

**Comment No. 17: Typical Liner System, Part I, Section II.C Lower Component**

The alternative Lower Component has been approved in Part I, Section II.

**Comment No. 18: Waste Screening**

Waste and Leachate Characterization of industrial wastes at Class F facilities is required by 33 CSR 1, Section 3.8.h.1 and is a basic ongoing activity for all loads that the permittee has proposed to accept into the landfill to ensure that prohibited materials or materials not authorized to be disposed in the landfill are not disposed of in the landfill.

Waste screening also serves as the first step in determining Constituents of Potential Concern (COPCs) in both leachate and groundwater under a Detection Monitoring Program. While the agency generally uses the indicator parameters in 40 CFR 257 Appendix III for Detection Monitoring and the Appendix IV parameter list for Assessment Monitoring, the agency is not limited to those parameters if a contaminant was disposed of in the landfill that qualifies as an "other" parameter per 40 CFR 257.93(b) or under 47 CSR 12 (Requirements Governing Groundwater Standards). As such, the agency does have the authority to require cleanup of any parameter suspected to be impacting groundwater originating from the materials disposed of in the landfill.

Part I, Section III has not been removed. In addition, pH was mistakenly omitted from the monitoring per "Type of Solid Wastes Authorized" on Page 2 of Part I of the permit due to the disposal of limestone / slurry / hydrated lime / unreacted trona waste into the landfill.

**Comment No. 19 and 20: Closure Plan**

The Closure Plan incorporated into the permit in 2017 was erroneously reviewed for compliance under State CCB Rules. The plan does not comply with the 40 CFR 257(d)(2) Performance Standard concerning "Drainage and Stabilization of CCR Units". This requirement applies to any CCR Unit, not just Surface Impoundments. As such, it cannot be incorporated into the permit and/or approved at this time.

**Comment No. 22: Sequence 3 Permanent Closure**

The agency reviewed the closure certification and has revised the Termination section to indicate that Sequence 3 has permanently closed and entered post-closure care.

**Comment No. 23: Outlet 004 Coordinates**

The permit will need to submit the revised coordinates upon installation of the discharge point.

**Comment No. 24: Additional Stormwater Parameters**

The permit application reported that these parameters are present in the discharge(s). The permit writer performed a review of the detected values to identify which parameters need additional data to determine compliance with benchmarks and which parameters, such as iron and aluminum, could potentially be present above a benchmark. The additional parameters were included in routine monitoring.

**Comment No. 25: Sampling timeframe Outlet 002 Sulfate and Titanium**

The timeframes have been corrected.

**Comment No. 26, 27, 28, 29, and 30: Part II, Section C.4.a-c**

Section C.4.a and C.4.c have been revised.

The agency believes comparing the maximum value to stormwater benchmarks is appropriate. No change has been made.

The permittee may claim the benchmark waiver across permit renewal as long as 1) the activity within the drainage area has not significantly changed and 2) a new sample was collected, for the permit renewal application, and the results of analysis were below the applicable benchmark as specified in the renewed permit.

As detailed in the AEP Mitchell Permit Renewal (WV0117642) response to comments, the toxicity document indicates that though the magnesium value was not derived in

accordance with published methodology, no reasoning was provided as to why. In addition, the proposed recommended screening limit of 82 mg/l does not appear to have been based on an LC50 as required by 47 CSR 2. The benchmark has therefore not been revised.

**Comment No. 31: Part II, Section C.4/5**

The requested section has been revised.

**Comment No. 32 and 33: Leachate Storage Ponds Volume and Operating Level**

The storage ponds were approved per 33 CSR 1, Section 4.8.b.2 and 4.8.c.3 which includes the 30 day and 2 feet of freeboard requirements. As such the approved ponds should meet the requirements specified; therefore, the agency believes that the requirement is appropriate. That said, the language has been revised to address the permittee's concern.

**Comment No. 34: Semi-annual monitoring periods**

The current version of the agency's eDMR system cannot specify the semi-annual monitoring periods. The periods, upon issuance, will begin upon the effective date of the permit.

**Comment No. 36: Seep Management Plan**

The agency believes that the requirement is appropriate. In addition, Part II, Section C.10 is the only seep requirement in the permit. The language has been revised; however, such that AEP may use its internal management system for seep control contingent that all identified seeps must be repaired as soon as possible.

**Comment No. 37: Detection Program parameters**

The requested section has been revised.

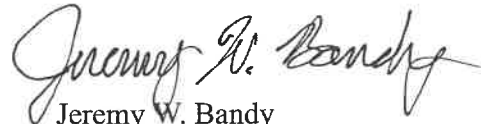
Finally note that copies of all future correspondence regarding the permit must be forwarded to the Field Inspector and Field Supervisor at the following address:

Department of Environmental Protection  
Environmental Enforcement  
601 57th Street  
Charleston, West Virginia 25304

David A. Miller  
August 15, 2025  
Page 6

If you have any questions, please contact Christina Facemyer of the Solid Waste Management Unit at (304) 926-0495, ext. 43845, or by email at [Christina.Facemyer@wv.gov](mailto:Christina.Facemyer@wv.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Jeremy W. Bandy". The signature is fluid and cursive, with the first name "Jeremy" being the most prominent.

Jeremy W. Bandy  
Director

JWB/jl

Attachment(s)

cc: Environmental Inspector Supervisor; Environmental Inspector

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT  
601 57<sup>TH</sup> STREET, SE  
CHARLESTON, WEST VIRGINIA 25304**

**SOLID WASTE FACILITY PERMIT  
Chapter 22, Articles 11, 12 and 15**

**APPLICATION NUMBER:** SWF-9013

**ISSUE DATE:** August 15, 2025

**PERMIT NUMBER:** SWF-9013/WV0116254

**EFFECTIVE DATE:** October 1, 2025

**EXPIRATION DATE:** August 14, 2029

**PERMITTEE:**

**CONTACT PERSON:**

**Name:** Appalachian Power Company

**Name:** David A. Miller

**Title:** Owner/Operator

**Title:** Director of Environmental

**Address:** 1 Riverside Plaza  
Columbus, OH 43215

**Address:** 1 Riverside Plaza  
Columbus, OH 43215

**Telephone No:** (614) 716-1233

**Telephone No:** (614) 716-2281

**FACILITY:**

**Name:** John E. Amos Landfill

**Address:** 58 Bills Creek Road  
Winfield, WV 25213

**Telephone No:** (614) 716-2281

**County:** Putnam

**Location:** The access road is off Bills Creek Road near the intersection with W.V.  
Route 817

**LATITUDE:** 38° 57' 17-25" N

**LONGITUDE:** 81° 55' 23-40" W

**FACILITY TYPE:** Non-Commercial Industrial Landfill

**CLASS:** F

**PERMITTED AREA:** 258Acres

**DISPOSAL AREA:** 211 Acres

**AMOUNT OF BOND:** N/A

**TYPE OF BOND:** N/A

**MAXIMUM ALLOWED TONNAGE:** 2.5 million CY/yr

**OPERATING SCHEDULE:**

Daylight Hours (7 days per week, 52 weeks per year)

**TYPE OF SOLID WASTE AUTHORIZED:**

Only solid waste expressly specified in the permit application (March 16, 2006) may be disposed of at this facility. This facility may receive other solid waste and/or solid waste that requires special handling methods for processing or disposal only with expressed written approval of the Director. If it is unclear that a particular waste is within the authorized wastes that this facility may receive, the permittee shall request and receive a letter of permission from the Director before receiving the waste.

The permittee may accept solid waste into the landfill from bottom ash pond dredgings, wastewater pond dredgings, plant stormwater pond dredgings, landfill stormwater pond dredgings, limestone / slurry / hydrated lime / unreacted trona, and coal pile runoff dredgings. The limestone / slurry / hydrated lime / unreacted trona may not be deposited in such a manner in the landfill that has a potential to generate a corrosive leachate in the landfill (i.e. pH > 12.5 via EPA Method 9045D). Sediments removed from the wastewater ponds (bottom ash, etc) shall be per Appalachian Power Company's John Amos letter dated January 30, 2025.

Additionally, the landfill may accept rejected material from beneficial ash reuse operations at Zeelan may be returned to the landfill for final disposal.

The landfill has also historically received and disposed of CCR from Clinch River, Glen Lyn, Mountaineer, Sporn, and Kanawha River Plant (Appalachian Power Owned, with exception of Sporn).

**SPECIAL REQUIREMENTS:**

If, at any time, it is not clear that a particular waste is within the authorized wastes that can be accepted by this landfill facility, the permittee shall request in writing and must receive written approval from the Director prior to the acceptance of such waste. This landfill facility may not receive or dispose of the following wastes: free liquids, hazardous wastes.

**SOURCES OF SOLID WASTE:**

Coal Combustion Residuals

**THE SOLID WASTE FACILITY SHALL BE CONSTRUCTED IN ACCORDANCE WITH  
THE FOLLOWING \*:**

**Plans, Specifications and Reports:**

**Dates Received:** November 17, 2023

**Prepared By:** Appalachian Power Company

**Title:** John E. Amos Landfill SW/NPDES Reissue Application

**Dates Received:** March 16, 2006

**Prepared By:** Thomas E. Webb, P.E.

**Title:** Class F Industrial Landfill Facility Application - John E. Amos  
Landfill

\* In the case of differences between the application and the permit, the permit shall take precedence.

**TO WHOM IT MAY CONCERN:**

**This is to certify that:**       Appalachian Power Company  
                                          1 Riverside Plaza  
                                          Columbus, OH 43215

**is hereby granted a Solid Waste Facility Operating Permit to:**

Construct, operate, and maintain a non-commercial industrial captive landfill, incorporating the activities of disposal, compaction, grading, construction, installation of a daily cover, intermediate and closure cap(s), covering, revegetation, vermin/pest control, drainage and sediment control, access control, leachate management, surface water control, groundwater monitoring, surface water monitoring, post-closure site monitoring, and construction of other structures and appurtenances as indicated in the application and attached permit documents.

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

The information submitted on and with the Solid Waste Facility Permit Renewal Application received February 14, 2022 and revisions dated November 17, 2023 any other documents submitted which are not herein specifically mentioned, are all hereby made terms and conditions of this permit as all such permit application information was set forth herein, and with other conditions set forth in Sections I, II, II, IV, V, VI and VII of Part I of this permit. To the extent the permit application information conflicts with the provisions of this document, the provisions of this document shall control.

Failure to comply with the terms and conditions of this permit shall constitute grounds for the enforcement procedures set forth in W.Va. Code, Chapter 22, Articles 11, 12, and 15, and any rules promulgated thereunder.

## **I. PERMIT CONDITIONS**

### **A. Responsibilities**

#### **1. Permit Renewal**

Six (6) months prior to the expiration date of this permit, the permittee shall have requested, completed, and submitted an application to renew this permit for continued operation and maintenance of the activities and duties specified herein.

#### **2. Requirement to Permanently Close**

Closure of the facility shall be per Section V unless a site-specific closure or alternative cap is proposed. For site-specific closure or alternative cap approvals the permittee shall submit a major permit modification request.

#### **3. Requirement to Comply**

Construction, operations, maintenance, and other activities shall be performed in accordance with W.Va. Code, Chapter 22, Articles 11, 12, and 15 and any rules promulgated thereunder, the approved plans and specifications, this permit, and any attached instructions, changes, amendments, or modifications to this permit.

#### **4. Civil and Criminal Liability**

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Nothing in this permit shall be construed to relieve the permittee from compliance with any other applicable federal, state, county or local laws, rules, or ordinances.

#### **5. Right of Inspection**

The Secretary (Secretary) of the Department of Environmental Protection (Department) or authorized representative(s) shall have the right to enter the site and inspect any conditions or operations occurring at the site at any time. The Secretary or authorized representative(s) may enter onto the site to take and analyze samples of waste, soil, air, or water, and may, upon issuance of an order, require the permittee to take and analyze samples of such waste, soil, air or water. Employees or agents of the Department shall be given access to all records relating to the generation, transportation, storage, treatment or disposal of solid waste. The Secretary or authorized representative(s) shall be furnished with copies of all such records or given the records for the purpose of making copies.

#### **6. Permit Modification and Reopener Clause**

- a. This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of W.Va. Code Chapter 22, Article 15, 12, and/or 11 and any rules promulgated thereunder. An application for any modification of this permit must be submitted at least ninety (90) days prior to the

proposed modification.

- b. If federal and/or state laws or rules governing solid waste facilities are amended during the life of this permit, the Secretary may modify the permit and require the permittee to submit an updated application to comply with the amended federal and/or state laws or rules. Only conditions subject to modification are reopened.

7. Availability of Reports

Except for data determined by the Department to be confidential in accordance with the provisions of with the provisions of W.Va. Code Chapter 22, Article 11 and Chapter 29B, Article 1, all reports prepared in accordance with the terms of the permit shall be available for public inspection at the Division of Water and Waste Management. Influent and effluent data shall not be considered confidential. Misrepresentation of any material fact in any such report may result in the imposition of penalties as provided by W.Va. Code Chapter 22, Articles 11, 12, and 15.

8. Implementation

All construction, installation of appurtenances, site renovations or improvements, and closure related activities contained in this permit must be completed within the time frames specified in this permit, unless approved by the Director in writing.

9. Inspection

Prior to any construction, installation of appurtenances, site renovation or improvement, or closure related activity (excluding general maintenance), a written notification must be made to the Division of Water and Waste Management of initiation of such activities. Upon completion of any construction, installation of appurtenances, site renovation or improvement, or closure related activity, the permittee shall within ten (10) days make notification to the Division of Water and Waste Management that installation is complete. The permittee shall provide timetables for all construction, installation of appurtenances, site renovations or improvements, and closure related activities to the Division of Water and Waste Management in order to provide for the agency the ability to perform adequate inspections of such activities if necessary.

10. Water Pollution

Any activities covered under this permit shall not lead to pollution of the surface waters or ground waters of the state. This facility shall not violate water quality standards with any discharge into a receiving stream in accordance with 47CSR2.

11. Transfer

This permit is non-transferable unless such transfer is approved in accordance with 33CSR1, promulgated under W.Va. Code Chapter 22, Article 15. The Director may require modification to this permit or an application for a new permit under the circumstances of the transfer.

B. Management Requirements

1. Facilities Activities

- a. The permittee shall always maintain in good working order and efficiently operate all control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit, W.Va. Code Chapter 22, Articles 11, 12, and 15 and all rules promulgated thereunder.
- b. Daily Logs. Daily logs must be kept on days solid waste disposal occurs. These daily logs must be kept on file with the Operating Record and include the following:
  - 1) A description of the type, amount, and origin of all solid waste received at the solid waste facility;
  - 2) A description of waste handling problems or emergency disposal activities;
  - 3) A record of actions taken to correct violations of the Solid Waste Management Act, other state acts, and the Department's regulations.
- c. Maximum tonnage to be received at this facility shall be no more than 2.5 million CY/yr without prior approval from the Director.
- d. Schedule and maximum hours of operation

**John Amos Landfill**

Daylight Hours (7 days a week, 52 weeks per year)

e. Reporting and Record Keeping

The permittee shall keep copies of all reports on file at the solid waste facility.

1. An annual solid waste facility operations report must be submitted for the current calendar year to the Director before January 31 of the following year and must include the following information:
  - a. A topographic map showing the permitted area, location of current working area(s), and completed area(s) in relationship to the grid system of the solid waste sequencing plan;
  - b. Summary of the daily logs of solid waste received during the previous year;
  - c. Summary of the previous year's monitoring activities,
  - d. A brief narrative describing the status of development, construction, maintenance, expansion, and closure of all facilities as part of the approved solid waste facility;

- e. Cross sections showing volume of area that has been filled;
  - f. Computations estimating the remaining useful life of the facility in months;  
and
  - g. The permittee shall annually determine the groundwater flow rate and direction in the uppermost significant aquifer and report the results in graphical format.
2. Background Investigation Annual Updates
- N/A - the facility is Non-Commercial
3. The permittee shall comply with the Recordkeeping Requirements in 40 CFR 257.105.
4. The permittee shall comply with the Notification Requirements in 40 CFR 257.106.
5. The owner or operator of an active facility or a facility with a legacy CCR surface impoundment must conduct a facility evaluation to identify all CCR management units at the facility in accordance with paragraphs (c) through (e) of 40 CFR 257.75. At a minimum, the presence or absence of CCR management units at the facility must be confirmed and documented through a thorough evaluation of reasonably and readily available records that contain the information needed to prepare the Facility Evaluation Reports Part 1 and Part 2. The facility evaluation must also include a physical inspection of the facility. Where necessary, the physical inspection must include field investigation activities to fill data gaps, such as conducting exploratory soil borings, geophysical assessments, or any other similar physical investigation activities to establish the location and boundaries of potential or likely CCR management units, and to affirmatively rule out other areas of potential CCR placement at the facility that were identified during the information review or physical inspection. The facility evaluation must identify all CCR management units at the facility regardless of when the CCR management unit came into existence.
6. No later than Monday, February 9, 2026 (or no later than the date in 40 CFR 257), the owner or operator of an active facility or a facility with a legacy CCR surface impoundment must prepare a Facility Evaluation Report Part 1, which shall contain, to the extent reasonably and readily available, the information specified in 40 CFR 257.75(c)(1)(i)-(xiv). The report must be certified by a qualified professional engineer.
7. No later than Monday, February 8, 2027 (or no later than the date in 40 CFR 257), the owner or operator of an active facility or a facility with a legacy CCR surface impoundment must prepare a facility evaluation report Part 2, which

shall contain, to the extent not provided in the Facility Evaluation Report Part, the information specified in 40 CFR 257.75(d)(1)(i)-(xiii) obtained from a physical evaluation of the facility, including where necessary field sampling.

f. Maintenance

Structures, roadways, and other site components shall be always maintained in good operational condition.

All equipment at the solid waste facility shall be always maintained in good working conditions.

Equipment and materials required for routine maintenance of facility structures, equipment, and other components shall be always available at the site or readily available within 24 hours (i.e. rental equipment).

g. Operator Certification

N/A - the facility is Non-Commercial

h. Public Access to CCR Information

The permittee shall maintain a publicly accessible internet site (CCR website) containing the information specified in this section. The owner or operator's website must be titled "CCR Rule Compliance Data and Information." The website must ensure that all information required to be posted is immediately available to anyone visiting the site, without requiring any prerequisite, such as registration or a requirement to submit a document request. Information shall be available within 30 days of placing pertinent information in the operating record and be made available to the public for at least five years following the date at which the information was first posted to the CCR web site.

If the owner/operator changes the web address, the permittee shall notify the Director within 14 days of making the change. The facility's CCR website must also have a "contact us" form or a specific email address posted on the website for the public to use to submit questions and issues relating to the availability of information on the website.

The following information, at a minimum, shall be made available:

1. Location Restrictions per 40 CFR 257.105(e)
2. Design Criteria per 40 CFR 257.107(f)
3. Operating Criteria per 40 CFR 257.107(g)

4. Groundwater Monitoring and Corrective Action per 40 CFR 257.107(h)
5. Closure and Post Closure Care per 40 CFR 257.107(i)

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any terms and conditions of this permit, or rules specified in this permit, the permittee shall provide the Director with the following information, in writing, within five (5) days of becoming aware of such conditions:

- a. A description of the noncompliance event and its cause
- b. The period of noncompliance, including exact dates and times, or the anticipated time period noncompliance is expected to continue or will occur in the future
- c. Steps being taken to reduce or eliminate noncompliance and to prevent recurrence of the noncomplying event

3. Solid Waste Limitations

Only solid waste types specifically designated in this permit shall be accepted for disposal at the facility. Should the permittee desire to designate additional solid waste types for disposal at the facility, the permittee must first obtain written approval from the Director.

4. Waivers

*The following regulatory sections in 33 CSR 1 (Solid Waste Management Rule) have been waived or revised per 33 CSR 1, Section 5.5.a and/or 6.1.a.1 for Class F facilities, the identified respective section in this permit shall be waived or superseded by the equivalent requirement(s) below:*

Sections 3.4, 3.7.f.7, 3.7.j, 3.7.k, 3.7.m, 3.8.c.1.C.4, 3.8.d.4.A, 3.10.a.6, 3.10.c, 3.13, 3.14, 3.16.d (Initial Application Items for a Commercial Solid Waste Facility)

Section 4.4 (Operating Record)

Section 4.5.b.3.A.3 (Sediment Structures Requirements)

Section 4.5.c (Access Road Requirements)

Section 4.5.d (Landfill Liner Specifications) ⇒ See Section II

Section 4.5.g.7-10 (Waste Containers)

Section 4.6.b.1.B (Cell Height)

Section 4.6.b.1.C (Laying and Compaction) ⇒ See Section II

Section 4.6.b.2.A,B,D (Daily, Intermediate, and Cover Availability) ⇒ See Section II

Section 4.8.c.3.B (Surface Impoundment Liner Requirements)

Section 4.10 (Landfill Gas Management) ⇒ Section I.C.2 (Gas Management Layer)

Section 4.12.a (Daily Logs) ⇒ Section I.B.1.c

Section 4.12 (Annual Report) ⇒ Section I.B.1.e

Section 4.13.b.3 (Landfill Gas Management) => Section I.C.2 (Gas Management Layer)

*Waiver of these Sections in 33 CSR 1 do not waive the equivalent sections in 33 CSR 1B / 40 CFR 257 for Coal Combustion Residual (CCR) units.*

5. CCR Operating Requirements (33 CSR 1B, 40 CFR 257.80)

a. CCR Fugitive Dust Control Plan

The permittee must implement a CCR fugitive dust control plan which identifies and describes the CCR fugitive dust control measures the owner or operator will use to minimize CCR from becoming airborne at the facility. The permittee must select, and include in the CCR fugitive dust control plan, the CCR fugitive dust control measures that are most appropriate for site conditions, along with an explanation of how the measures selected are applicable and appropriate for site conditions. The permittee shall obtain a certification of the plan from a Professional Engineer (PE) licensed to practice in the State of West Virginia.

b. Run-on and Run-off Control System Plan (33 CSR 1B, 40 CFR 257.81)

The owner or operator must prepare initial and periodic run-on and run-off control system plans for the CCR unit. These plans must document how the run-on and run-off control systems have been designed and constructed to meet the applicable requirements of this section. Each plan must be supported by appropriate engineering calculations. The owner or operator has completed the initial run-on and run-off control system plan when the plan has been placed in the facility's operating record.

C. Monitoring Requirements

The permittee shall submit all reports to Environmental Enforcement and to the Director of the Division of Water and Waste Management.

1. Groundwater, Leachate and Surface Water Monitoring

The permittee shall monitor all groundwater, leachate influent, and surface water monitoring points per Part II of this permit for the duration of the permit, including the closure and the post-closure periods.

Groundwater sampling frequencies shall be based on the calendar year and must be no less than one hundred twenty (120) days between sampling events unless specified more frequently in Part II.

The permittee shall be responsible for any and all environmental degradation attributable to operation and maintenance of the solid waste facility.

2. Gas Monitoring

N/A - landfill gas producing organic material is prohibited from disposal.

3. Post-Closure Monitoring

Monitoring of the site for vandalism, illegal dumping, subsidence or differential settlement, cracking or erosion of cover materials, leachate releases, and other deleterious conditions shall be performed monthly for the duration of the permit and the post-closure period. Significant deterioration shall be reported to the Division of Water and Waste Management in writing along with steps describing corrective action.

D. Drainage and Sediment Control Plan

The permittee shall construct and maintain effective drainage and sediment control at the solid waste facility in accordance with 40 CFR 257.81 and as approved in the permit application documents and plans.

E. Leachate Management

1. Leachate shall be collected and contained on the site property in a tank storage area with secondary containment or surface impoundment / pond which has been constructed in accordance with 33CSR1 Section 4 to prevent discharges into Waters of the State (including groundwater).
2. Leachate shall be routed from the leachate storage facility to the leachate treatment and/or disposal system as specified in Part II of this permit. Leachate control and treatment must be maintained for the duration of the permit and the post-closure period.
3. Leachate shall be treated and/or disposed per Part II Section C of this permit.
4. Upon completion of construction of any new or modified leachate storage facilities, and prior to the collection of leachate, the permittee shall provide the Division a certificate from a Professional Engineer (PE) licensed to practice in the State of West Virginia, under seal that the leachate storage facility was constructed as approved in the permit application.

F. Vector/Pest Control Plan

The facility shall be operated in a manner that minimizes disease vector harborage and prevents unsightliness and odors. Animals, insects, and vectors shall be controlled by the application of suitable pesticide prior to placement of final cover materials. All pesticide use will be properly monitored and applied in conformance with Department of Agriculture guidelines.

G. Quality Assurance and Quality Control (Q.A./Q.C.) Plan

The permittee has provided a general quality assurance and quality control plan in the permit application which is to be implemented to assure conformity of the solid waste facility design and construction specifications described in the application and the Solid Waste Management Rule (33CSR1).

#### H. Certification

Upon completion of each phase of construction and prior to deposition or management of waste, the permittee shall provide the Division of Water and Waste Management a completed Certification of Construction form from a registered professional engineer (PE) licensed to practice in the State of West Virginia, under seal, that each elements or stages were constructed as approved in the permit.

## II. SOLID WASTE DISPOSAL AREA(S)

The permittee shall follow the design and construction requirements for the solid waste disposal areas in accordance with the requirements of 33 CSR 1B / 40 CFR 257 and the approved permit application and approved modifications.

The permittee shall keep records of all measures and testing required for Quality Assurance/Quality Control during construction of the complete liner system in the solid waste disposal area. Upon completion of the construction of each major element of the liner system, subbase, leachate collection system protective cover zone and prior to the deposition of waste, the permittee shall provide this office a Certification of Construction form from a Professional Engineer (P.E.) licensed to practice in the State of West Virginia, under seal, that all elements or stages were constructed as approved in the permit.

### **Solid Waste Placement and Compaction**

- A. CCR units must be constructed with a base that is located no less than 1.52 meters (five feet) above the upper limit of the uppermost aquifer, or must demonstrate that there will not be an intermittent, recurring, or sustained hydraulic connection between any portion of the base of the CCR unit and the uppermost aquifer due to normal fluctuations in groundwater elevations (including the seasonal high water table).

### **Cover Material Application**

- A. Daily / Intermediate Cover

The permittee must cover the entire exposed solid waste disposal area at the end of each operating day, or at more frequent intervals, if necessary, to control dust as specified in the approved CCR fugitive dust control plan.

Solid waste fill surfaces that will remain exposed to weather for extended periods must have control measures that may be appropriate including: Locating CCR inside an enclosure or partial enclosure; operating a water spray or fogging system; reducing fall distances at material drop points; using wind barriers, compaction, or vegetative covers; establishing and enforcing reduced vehicle speed limits; paving and sweeping roads; covering trucks transporting CCR; reducing or halting operations during high wind events; or applying a daily cover.

B. Final Cover

Solid waste fill surfaces that will receive no further solid waste deposits must place final cover in accordance with Section V of Part I of this permit.

**Typical Liner System for Disposal Areas (33 CSR 1B, 40 CFR 257.70)**

COAL COMBUSTION RESIDUAL (CCR) WASTE

A. LEACHATE COLLECTION SYSTEM

The leachate collection and removal system must be designed, constructed, operated, and maintained to collect and remove leachate from the landfill during the active life and post-closure care period. The leachate collection and removal system must be designed and operated to maintain less than a 30-centimeter depth of leachate over the composite liner or alternative composite liner; constructed of materials that are chemically resistant to the CCR and any non-CCR waste managed in the CCR unit and the leachate expected to be generated, and of sufficient strength and thickness to prevent collapse under the pressures exerted by overlying waste, waste cover materials, and equipment used at the CCR unit; and designed and operated to minimize clogging during the active life and post-closure care period.

B. COMPOSITE LINER

The composite liner must be constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the CCR or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation; constructed of materials that provide appropriate shear resistance of the upper and lower component interface to prevent sliding of the upper component including on slopes; placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift; and installed to cover all surrounding earth likely to be in contact with the CCR or leachate. The composite liner must consist of:

C. LOWER COMPONENT

The permittee shall construct and install a composite liner lower component of at least a two-foot layer of compacted soil with a hydraulic conductivity of no more than  $1 \times 10^{-7}$  centimeters per second (cm/sec).

D. UPPER COMPONENT

The permittee shall construct and install a composite liner upper component of at a minimum, a 30-mil geomembrane liner (GM). GM components consisting of high

density polyethylene (HDPE) must be at least 60-mil thick. The upper liner component must be installed in direct and uniform contact with the compacted soil or lower liner component.

The permittee may apply for an alternative designed liner system via submittal of a site-specific liner plan via a major permit modification application. The following Alternative Liner Systems have been approved:

**Approved Alternative Liner Systems**

*Sequences 1,2,3 (2006 - 2015 under State CCB Rules)*

An alternative landfill disposal area liner system has been approved for use at this disposal area based on the following plans and specifications:

|                 |                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------|
| Dates Received: | March 16, 2006                                                                                    |
| Prepared By:    | Thomas A. Gray, P.E.<br>GAI Consultants, Inc.<br>385 East Waterfront Drive<br>Homestead, PA 15102 |
| Title:          | John E. Amos Landfill<br>Class F Solid Waste Permit Application                                   |

*Sequences 5,6,7,8,9 (Lower Component Only)*

An alternative landfill disposal area liner has been approved for use at this disposal area based on the following plans and specifications:

|                 |                                                                                                                                                                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dates Received: | January 25, 2022                                                                                                                                                                                                                                          |
| Prepared By:    | Ron Harris, P.E. and Mark R. Lehner, P.E.<br>GAI Consultants, Inc.<br>385 East Waterfront Drive<br>Homestead, PA 15102                                                                                                                                    |
| Title:          | Geosynthetic Clay Liner Evaluation and Permitting Assistance, Equivalency Calculation and Recommendation (Task 001), Comparison of Permit Requirements to Laboratory Results (Task 003), American Electric Power, John E. Amos FGD Landfill, Winfield, WV |

**III. WASTE SCREENING ACTIVITIES**

At a minimum, the permittee shall implement the following procedures at the solid waste

facility to protect human health, safety, and the environment in the event that a potentially dangerous material is encountered or received.

A. Inspection Reports

The permittee shall, at a minimum, perform routine reviews of incoming solid waste analyses. At least once per quarter the permittee shall analyze all incoming material per Section III, A.1 and include the results in the Operating Record and Annual Report.

Screening data will be kept on site for five (5) years. Documentation of review of the data shall include: date and time of review, name of reviewer, material(s) detected, action taken to manage or return any prohibited waste detected, efforts under-taken if toxicity or hazard is discovered, person(s) or organization(s) contacted if a prohibited waste is detected, and the signature of the site manager or trained employee in charge of the waste analysis review. Additional record keeping for all prohibited waste removed from the waste screening area shall include manifests, shipping documents, and receipts from the facility where the prohibited waste was properly disposed of.

1. Waste Characterization

a. Testing Program

The permittee must undertake a testing program in accordance with the requirements of 33CSR1 and any other tests specified by the Director.

A long-term testing program must be established and implemented which, at a minimum, includes quarterly sampling and testing of incoming materials disposed of in the landfill. Representative samples of solid waste and related material must be tested by a West Virginia certified environmental laboratory for physical characteristics, bulk chemical composition, analysis using the appropriate test and analysis using the Toxicity Characteristic Leaching Procedure (TCLP) or other test to determine the wastes' regulatory status under federal or state hazardous waste laws. The test method (EPA Method 1311) will be utilized for leaching the heavy metals. Total or leaching analysis may be used for PCDD, PCDF, 2,3,7,8-TCDD, PAH, and PCB. The following table lists the parameters and regulatory limits (if any) for the solid waste:

| <b>Parameter</b>       | <b>Maximum Limitation<sup>1</sup></b> | <b>Units</b> | <b>Monitoring Frequency</b> | <b>Sample Type<sup>2</sup></b> |
|------------------------|---------------------------------------|--------------|-----------------------------|--------------------------------|
| <b>Arsenic (TCLP)</b>  | Monitor                               | mg/l         | 1/Year                      | Comp                           |
| <b>Barium (TCLP)</b>   | Monitor                               | mg/l         | 1/Year                      | Comp                           |
| <b>Cadmium (TCLP)</b>  | Monitor                               | mg/l         | 1/Year                      | Comp                           |
| <b>Chromium (TCLP)</b> | Monitor                               | mg/l         | 1/Year                      | Comp                           |

|                                 |                   |      |        |      |
|---------------------------------|-------------------|------|--------|------|
| <b>Lead (TCLP)</b>              | Monitor           | mg/l | 1/Year | Comp |
| <b>Mercury (TCLP)</b>           | Monitor           | mg/l | 1/Year | Comp |
| <b>Selenium (TCLP)</b>          | Monitor           | mg/l | 1/Year | Comp |
| <b>Silver (TCLP)</b>            | Monitor           | mg/l | 1/Year | Comp |
| <b>PCDD<sup>3</sup></b>         | Monitor           | ppm  | 1/Year | Comp |
| <b>PCDF<sup>3</sup></b>         | Monitor           | ppm  | 1/Year | Comp |
| <b>2,3,7,8-TCDD<sup>3</sup></b> | Monitor           | ppm  | 1/Year | Comp |
| <b>PAHs<sup>3</sup></b>         | Monitor           | ppm  | 1/Year | Comp |
| <b>PCBs<sup>3</sup></b>         | 50                | ppm  | 1/Year | Comp |
| <b>pH</b>                       | 12.5 <sup>4</sup> | s.u. | 1/Year | Grab |

- <sup>1</sup> The permittee shall not exceed the listed limitations for disposal of materials in the landfill. Upon exceeding a limitation for any metal or PCB the permittee shall perform immediate confirmation sampling. If the results confirm the exceedance or the average of the two samples is still above the limitation, the permittee shall immediately comply with the notify requirements of 40CFR761 (PCBs).
- <sup>2</sup> At least three (3) discrete grab samples shall be obtained and composited for analysis. Analysis shall be representative of the entire storage unit and be representative of the waste material.
- <sup>3</sup> PCDF = Polychlorinated dibenzofurans  
PCDD = Polychlorinated dibenzo-p-dioxins  
TCDD = Tetrachlorodibenzo-p-dioxin  
PAH = Polyaromatic Hydrocarbons  
PCB = Polychlorinated Biphenyls
- <sup>4</sup> Corrosivity threshold for solid waste where the waste is aqueous (the aqueous phase constitutes at least 20% of the total volume of the waste and EPA Method 9040C).

Analysis for the ash 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 lower method detection level.

| <b>Parameter</b>                                                            | <b>EPA Method No.*</b> | <b>Detection Level (ug/l)</b> |
|-----------------------------------------------------------------------------|------------------------|-------------------------------|
| RCRA Metals                                                                 | SW1311 (TCLP)          | Multiple                      |
| Dioxins (PCDD/F, TCDD)                                                      | SW8290                 | Multiple                      |
| PAHs                                                                        | SW8270                 | Multiple                      |
| PCBs                                                                        | SW8082                 | Multiple                      |
| pH (Corrosivity)                                                            | SW9040C                | 1-14                          |
| * The latest publication version update of the stated method shall be used. |                        |                               |

**B. Employee Training**

Waste screening employees shall be trained in waste screening procedures, which shall include the proper and safe procedures that must take place in the event that a prohibited waste is detected. This training shall also include identification of prohibited waste material and the proper use of personal protective clothing and safety equipment. **Only trained employees may conduct waste screening inspections.** The names of trained employees, including training certificates or certification, shall be retained for agency personnel review.

**C. Posting, record keeping, and notification procedures shall include at a minimum:**

Post the telephone numbers and contact persons (updating quarterly, if necessary) of the WVDEP Division of Water and Waste Management, Solid Waste Management Unit; WVDEP Environmental Enforcement Inspector; WVDEP Emergency Response Number (800-642-3074); State Health Department; and the Local Emergency Management Agency. These postings shall be placed in a conspicuous location at the waste screening area.

**IV. BONDING**

N/A - the facility is a Non-Commercial, captive landfill.

**V. CLOSURE OF DISPOSAL AREAS**

**A. Notification Procedure for Closure of Facility**

1. No later than the date the permittee initiates closure of a CCR unit, the permittee must prepare a notification of intent to close a CCR unit. The notification must include the certification by a qualified professional engineer for the design of the final cover system as required by 40 CFR 257.102(d)(3)(iii), if applicable. The owner or operator has completed the notification when it has been placed in the facility's operating record as required by 40 CFR 257.105(i)(7).
2. Following closure at the facility, all closure activities must be inspected and approved by a registered professional engineer verifying that closure has been completed in accordance with the closure plan. The certification shall be submitted for approval via a major permit modification application. A copy of all related information must be retained in the facility operating record.
3. The permittee shall complete closure activities in accordance with the closure plan within six months of commencing closure activities for a landfill or within five years of commencing closure activities for a surface impoundment as specified in 40 CFR 257.102(f)(1), unless otherwise approved by the agency.

4. The permittee shall notify the Director on any changes to the Closure Plan established in the Operating Record.
5. Within 30 days of completion of closure of the CCR unit, the permittee must prepare a notification of closure of a CCR unit. The notification must include the certification by a qualified professional engineer as required by 40 CFR 257.102(f)(3). The owner or operator has completed the notification when it has been placed in the facility's operating record as required by 40 CFR 257.105(i)(8).
6. The following closure plan per 40 CFR 257.102(b) has been incorporated into this permit:

N/A - no closure plans have been approved for this facility.

**B. Typical Final Cover System for Disposal Areas (33 CSR 1B, 40 CFR 257.102)**

1. The entire surface of the operational area to be closed in accordance with the approved application submitted and must be covered in accordance with the following requirements:

**GENERAL PERFORMANCE STANDARD**

Control, minimize or eliminate, to the maximum extent feasible, post-closure infiltration of liquids into the waste and releases of CCR, leachate, or contaminated run-off to the ground or surface waters or to the atmosphere;

Preclude the probability of future impoundment of water, sediment, or slurry;

Include measures that provide for major slope stability to prevent the sloughing or movement of the final cover system during the closure and post-closure care period;

Minimize the need for further maintenance of the CCR unit; and

Be completed in the shortest amount of time consistent with recognized and generally accepted good engineering practices.

**OVERALL PERMEABILITY**

The permeability of the final cover system must be less than or equal to the permeability of any bottom liner system or natural subsoils present, or a permeability no greater than  $1 \times 10^{-5}$  cm/sec, whichever is less.

**INFILTRATION LAYER**

The infiltration of liquids through the closed CCR unit must be minimized using

an infiltration layer that contains a minimum of 18 inches of earthen material.

#### EROSION LAYER

The erosion of the final cover system must be minimized using an erosion layer that contains a minimum of six inches of earthen material that can sustain native plant growth. The permittee shall place final cover within six (6) months after disposal in the final lift ceases or as soon thereafter as weather permits.

The disruption of the integrity of the final cover system must be minimized through a design that accommodates settling and subsidence.

#### DRAINAGE AND STABILIZATION

Free liquids\* must be eliminated by removing liquid wastes or solidifying the remaining wastes and waste residues.

Remaining wastes must be stabilized sufficient to support the final cover system.

\* Liquids include water that was sluiced into an impoundment along with CCR, precipitation, surface water, groundwater, and any other form of water that has migrated into the impoundment, which may be found as free water or standing water ponded above CCR or porewater intermingled with CCR.

2. The permittee may apply for an alternative designed capping system via submittal of a site-specific closure plan via a major permit modification application. The following Alternative Cap Systems have been approved:

#### **Approved Alternative Cap Systems**

*Sequences 1,2,3 (2006 - 2015 under State CCB Rules)*

An alternative landfill disposal area liner system has been approved for use at this disposal area based on the following plans and specifications:

|                 |                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------|
| Dates Received: | March 16, 2006                                                                                    |
| Prepared By:    | Thomas A. Gray, P.E.<br>GAI Consultants, Inc.<br>385 East Waterfront Drive<br>Homestead, PA 15102 |
| Title:          | John E. Amos Landfill<br>Class F Solid Waste Permit Application                                   |

#### C. Post Closure Care

1. Notification Procedure for Post-Closure of Facility

- a. The permittee shall notify the Director on any changes to the Post-Closure Care Plan established in the Operating Record.
- b. No later than 60 days following the completion of the post-closure care period, the permittee must prepare a notification verifying that post-closure care has been completed. The notification must include the certification by a qualified professional engineer verifying that post-closure care has been completed in accordance with the post-closure care plan. The permittee has completed the notification when it has been placed in the facility's operating record as required by 40 CFR 257.105(i)(13).
- c. The following pos-closure care plan per 40 CFR 257.104(d) has been incorporated into this permit:

N/A - no post-closure care plans have been approved for this facility.

2. Deed Notation

Upon closure of the landfill the owner or operator must record a deed notation with the county clerk's office that shall be available with the deed of the property and will notify any potential purchaser that:

- a. The land has been used as a landfill
- b. Its use is restricted to ensure post-closure care including any use that would interfere with maintaining the integrity and effectiveness of the final cover and maintaining the system to control the formation and release of leachate and explosive gases into the environment
- c. The deed shall include at a minimum:
  - i. A survey plat indicating the location and dimension of the solid waste facility
  - ii. A record of waste, including type, location, and quantity of waste disposed at the site
  - iii. The disposal location of asbestos and any other waste specified by the Department

3. Land Disturbance

No person may engage in excavating, building, drilling, mining, use of the facility for agricultural purposes or conduct any activity which may adversely affect the final cover, leachate collection and treatment system, gas venting or recovery system, or any other structures required by this permit, on or in the premises, without prior written authorization of the Director.

4. Restricted Access

Within ten (10) days after ceasing to accept waste the permittee shall restrict all access by use of gates, fencing, or other appropriate means, to ensure against further use of the facility. If final use allows access, such access must be restricted until closure has been completed and approved by the Director.

5. Drainage and Sediment Control Plan

The permittee shall implement an effective drainage and sediment control at the solid waste facility in accordance with 40 CFR 257.81, of the Solid Waste Management Rule and as approved in the permit application documents and plans

6. Revegetation Plan

Within ninety (90) days after the final cover is placed, the permittee shall complete seeding, fertilizing, and mulching of the finished surface. The seeding mixture and application rates must be performed in compliance with the permit application and the Solid Waste Management Rule. Adequate revegetation shall be established on a temporary or permanent basis to minimize erosion.

7. Certification

Upon completion of construction / closure, permittee shall provide the Solid Waste Permitting Unit a Certification of Construction form from a Professional Engineer (PE), licensed to practice in the State of West Virginia under seal, that all elements or stages were constructed as approved in the permit.

8. Vector/Pest Control Plan

Rodents and other design vectors will be exterminated by the application of suitable pesticides prior to placement of final cover materials. All pesticide use will be properly monitored and applied in accordance with the Department of Agriculture guidelines.

9. Quality Assurance and Quality Control Plan

The permittee shall implement a general quality assurance and quality control plan to assure conformity of the solid waste facility design and construction specification described in the Solid Waste Management Rule.

10. Final Use at Landfills

The permittee shall prohibit the following activities at the closed landfill unless specifically approved by the Director in writing:

- a. Use of the facility for agricultural purposes
- b. Establishment or construction of any buildings

- c. Excavation of the final cover or any waste materials

11. Monitoring and Repair

The permittee shall continue post-closure care for up to thirty (30) years after final closure of areas unless extended by the Director and shall consist of the following:

- a. Repair of Settlement: Any settling of solid waste which occurs up to thirty (30) years of the date of final closure that causes ponding of waters in areas of solid waste deposits shall be repaired promptly. Such repairs shall include any necessary regrading, additions of fill material, and revegetation of settled areas.
- b. Repair of Cover Material: Any cracking or erosion of cover material which occurs and may cause water to enter solid waste deposits shall be repaired immediately. Such repairs shall include any necessary regrading, additions of cover material, and revegetation to eliminate such cracks or eroded areas.
- c. Site Monitoring: Further disposal of solid waste at a closed solid waste facility is prohibited. The closed solid waste facility shall be monitored by the permittee at a minimum frequency of once each month during the post-closure period to assure that solid waste deposits and vandalism do not occur at the closed solid waste facility. Any solid waste deposited at the closed solid waste facility during the post-closure period shall be promptly removed and disposed at an approved solid waste facility. Evidence of disease vectors shall be treated promptly.

12. Termination

The approved final closure dates (i.e. for the purposes of post closure care) for the solid waste management areas covered by this permit are:

**Sequence 5, 6, 7, 8, 9** – N/A (facility is proposed)

**Sequence 4** - N/A (facility is active)

**Sequence 3** - 8/28/2019 (8/28/2049\*)

**Sequence 1, 2** - N/A (facility is inactive, not permanently closed)

\* Estimated end of post closure care.

The length of post-closure care may be decreased if the permittee demonstrates a reduced period is sufficient to protect human health and the environment or increased if the agency determines that a lengthened period is necessary to protect human health and the environment.

No later than 60 days following the completion of the post-closure care period, the owner or operator of the CCR unit must prepare a notification verifying that post-closure care has been completed. The notification must include the

certification by a qualified professional engineer verifying that post-closure care has been completed in accordance with the closure plan and this permit. The owner or operator has completed the notification when it has been placed in the facility's operating record as required by § 257.105(i)(13). At a minimum, the verification shall include:

- a. A post closure care inspection report from Environmental Enforcement that indicates that no further remedial action or other activity is necessary to continue compliance with the Solid Management Act and the facility is not causing any adverse effects on the environment, and/or causing a nuisance.
- b. Verification that the owner or operator of the CCR unit is not operating under assessment monitoring in accordance with § 257.95, assessing corrective action, or under a selected remedy per § 257.98. The permittee must continue to conduct post-closure care until the owner or operator returns to detection monitoring in accordance with § 257.95.
- c. A long-term stewardship plan to prevent unacceptable exposure to solid waste at the post-closure care unit.
- d. A copy of the deed notation required by 40 CFR 257.102(i).
- e. A plan to abandon groundwater monitoring wells on site compliant with 47CSR60 Section 19.

## **VI. NON-DISPOSAL UNIT**

This permit does not authorize a non-disposal unit at the existing solid waste facility.

## **VII. ADDITIONAL REQUIREMENTS**

- A. 100% of all incoming solid waste to the facility must be generated or originate from the owner's facility(s) and be listed in the permit application. The permittee is prohibited from accepting solid waste directly or indirectly from any other entity or source on a for profit or non-cost sharing basis without prior approval from WVDEP. If the permittee wishes to accept solid waste on a commercial basis, the permittee shall submit a major modification application to this permit with the appropriate Public Service Commission and County Solid Waste Authority approvals.

**PART II**  
**Permit Number SWF-9013/WV0116254**  
**Leachate and Storm Water Collection and**  
**Treatment Requirements**

After review and consideration of the information submitted on and with the permit renewal application, received February 14, 2022, the permittee is **hereby granted a Water Pollution Control Permit to:**

To operate and maintain a treatment and disposal system and best management practices for the direct discharge of storm water runoff via Outlet 001 into the waters of Little Hurricane Creek approximately 1.3 miles from its mouth.

To operate and maintain a treatment and disposal system and best management practices for the direct discharge of storm water runoff via Outlet 002 and 007 into the waters of an unnamed tributary of Lick Run, a tributary of Little Hurricane Creek, a tributary of the Kanawha River approximately 1.4 miles from its mouth.

To operate and maintain a treatment and disposal system and best management practices for the direct discharge of storm water runoff via Outlet 003 into the waters of an unnamed tributary of Second Branch, Little Hurricane Creek, a tributary of the Kanawha River approximately 0.75 miles from its mouth.

To acquire, construct, install, operate and maintain a treatment and disposal system and best management practices for the direct discharge of storm water runoff via Outlet 004 into the waters of Second Branch, Little Hurricane Creek, a tributary of the Kanawha River approximately 0.5 miles from its mouth.

To operate and maintain a treatment and disposal system and best management practices for the direct discharge of storm water runoff via Outlet 005 into the waters of an unnamed tributary of Bills Creek, a tributary of the Kanawha River approximately 1.0 miles from its mouth.

To operate and maintain a treatment and disposal system and best management practices for the direct discharge of storm water runoff via outlet 006 into the waters of an unnamed tributary of Little Hurricane Creek, a tributary of the Kanawha River approximately 1.5 miles from its mouth.

All units used for the storage and treatment of leachate must be constructed to meet the requirements set forth by the Solid Waste Management Rule.

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

The information submitted on and with Permit Application No. WV0116254 dated the 14th day of February 2022, Application Number WV0116254 dated the 24th day of October 2011, Application Number WV0116254 dated the 14th day of March 2006, 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 Section A, B, C, D and Appendix A.

The storm water collection, storage, and sedimentation control structures shall be constructed in accordance with the plans and specifications as submitted with approved revisions and further described as follows:

**Plans and Specifications:**

**Dates Received:** February 2016, Revised December 2019

**Prepared By:** GAI Consultants, Inc.

**Title:** Run-on and Run-off Control System Plan

**Dates Received:** March 16, 2006

**Prepared By:** Thomas E. Webb, P.E.

**Title:** Class F Industrial Landfill Facility Application - John E. Amos  
Landfill

All leachate containment structures must be constructed to meet the requirements set forth in Title 33, Series 1, Subsection 4.8, of the Solid Waste Management Rules. The Stormwater Sediment Control Structures shall be constructed and maintained in accordance with Title 33, Series 1, Subsection 4.5, of the Solid Waste Management Rules.

If the conditions contained in this section are different from any other conditions set forth in this permit, the permittee must comply with the more stringent condition.

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 001 (Storm Water Runoff)

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

| <u><b>Effluent Characteristic</b></u>                                  | <u><b>Discharge Limitations</b></u> |                     |                           | <u><b>Monitoring Requirements</b></u> |                           |
|------------------------------------------------------------------------|-------------------------------------|---------------------|---------------------------|---------------------------------------|---------------------------|
|                                                                        | <u><b>Quantity</b></u>              | <u><b>Units</b></u> | <u><b>Other Units</b></u> | <u><b>Measurement Frequency</b></u>   | <u><b>Sample Type</b></u> |
| 50050 - (Flow, in Conduit or thru plant)<br>(Year Round) (ML-1) (RF-C) | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Estimated                 |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |
| 00400 - (pH)<br>(Year Round) (ML-1) (RF-C)                             | N/A                                 | N/A                 | Rpt Only<br>Inst. Min.    | 1/6 months                            | Grab                      |
| 01002 - (Arsenic, Total (as As))<br>(Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |
| 71900 - (Mercury, Total (as Hg))<br>(Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |
| 01105 - (Aluminum, Total (as Al))<br>(Year Round) (ML-1) (RF-C)        | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |
| 00981 - (Selenium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C)    | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |
| 01045 - (Iron, Total (as Fe))<br>(Year Round) (ML-1) (RF-C)            | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
South Area Sediment Collection Pond Discharge a 30" Type S HDPE Pipe

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

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 001 (Storm Water Runoff)

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

| <u><b>Effluent Characteristic</b></u>                               | <u><b>Discharge Limitations</b></u> |                     |                           | <u><b>Monitoring Requirements</b></u> |                           |  |
|---------------------------------------------------------------------|-------------------------------------|---------------------|---------------------------|---------------------------------------|---------------------------|--|
|                                                                     | <u><b>Quantity</b></u>              | <u><b>Units</b></u> | <u><b>Other Units</b></u> | <u><b>Measurement Frequency</b></u>   | <u><b>Sample Type</b></u> |  |
| 81020 - (Sulfate)<br>(Year Round) (ML-1) (RF-C)                     | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 81017 - (Chem. Oxygen Demand)<br>(Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-1) (RF-C)      | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 00984 - (Titanium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C) | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
South Area Sediment Collection Pond Discharge a 30" Type S HDPE Pipe

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

**A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 002 (Storm Water Runoff)

**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> |
| 50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-C) | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Estimated          |
| 00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00400 - (pH) (Year Round) (ML-1) (RF-C)                             | N/A                          | N/A          | Rpt Only<br>Inst. Min. | Rpt Only<br>Inst. Max          | 1/6 months                   | Grab               |
| 01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)    | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)            | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
North Area Sediment Collection Pond Discharge a 30" Type S HDPE Pipe

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

**A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 002 (Storm Water Runoff)

**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>Measurement Frequency</u>   | <u>Sample Type</u> |  |
| 81020 - (Sulfate)<br>(Year Round) (ML-1) (RF-C)                     | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 81017 - (Chem. Oxygen Demand)<br>(Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-1) (RF-C)      | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00984 - (Titanium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
North Area Sediment Collection Pond Discharge a 30" Type S HDPE Pipe

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

# **A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

## **Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 003 (Storm Water Runoff)

**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> |
| 50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-C) | N/A                          | N/A          | N/A                | Rpt Only<br>Avg. Monthly       | 1/6 months                   | Estimated          |
| 00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00400 - (pH) (Year Round) (ML-1) (RF-C)                             | N/A                          | N/A          | N/A                | Rpt Only<br>Inst. Max.         | 1/6 months                   | Grab               |
| 01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)    | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)            | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
Beaver Plateau Pond a 24" Type S HDPE Pipe

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

**A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 003 (Storm Water Runoff)

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>Measurement Frequency</u>   | <u>Sample Type</u> |      |
| 81020 - (Sulfate)<br>(Year Round) (ML-1) (RF-C)                     | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months         | Grab |
| 81017 - (Chem. Oxygen Demand)<br>(Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months         | Grab |
| 00927 - (Magnesium,Tot (as Mg))<br>(Year Round) (ML-1) (RF-C)       | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months         | Grab |
| 00984 - (Titanium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months         | Grab |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 Beaver Plateau Pond a 24" Type S HDPE Pipe

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

**A.004 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 004 (Storm Water Runoff)

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>Measurement Frequency</u>   | <u>Sample Type</u> |  |
| 50050 - (Flow,in Conduit or thru plant)<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Estimated          |  |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00400 - (pH)<br>(Year Round) (ML-1) (RF-C)                            | N/A                          | N/A          | Rpt Only<br>Inst. Min.   | 1/6 months                     | Grab               |  |
| 01002 - (Arsenic, Total (as As))<br>(Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 71900 - (Mercury, Total (as Hg))<br>(Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 01105 - (Aluminum, Total (as Al))<br>(Year Round) (ML-1) (RF-C)       | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00981 - (Selenium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C)   | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 01045 - (Iron, Total (as Fe))<br>(Year Round) (ML-1) (RF-C)           | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
Northeast Borrow Area Sediment Pond a 12" HDPE Pipe

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

**A.004 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 004 (Storm Water Runoff)

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>Measurement Frequency</u>   | <u>Sample Type</u> |  |
| 81020 - (Sulfate)<br>(Year Round) (ML-1) (RF-C)                     | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 81017 - (Chem. Oxygen Demand)<br>(Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-1) (RF-C)      | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00984 - (Titanium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
Northeast Borrow Area Sediment Pond a 12" HDPE Pipe

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

**A.005 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 005 (Storm Water Runoff)

**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> |
| 50050 - (Flow,in Conduit or thru plant)<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Estimated          |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00400 - (pH)<br>(Year Round) (ML-1) (RF-C)                            | N/A                          | N/A          | Rpt Only<br>Inst. Min. | Rpt Only<br>Inst. Max.         | 1/6 months                   | Grab               |
| 01002 - (Arsenic, Total (as As))<br>(Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 71900 - (Mercury, Total (as Hg))<br>(Year Round) (ML-1) (RF-C)        | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 01105 - (Aluminum, Total (as Al))<br>(Year Round) (ML-1) (RF-C)       | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00981 - (Selenium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C)   | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 01045 - (Iron, Total (as Fe))<br>(Year Round) (ML-1) (RF-C)           | N/A                          | N/A          | N/A                    | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |

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

Discharge from Sediment Trap #9 to a Rock Lined Ditch

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

**A.005 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 005 (Storm Water Runoff)

**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>Measurement Frequency</u>   | <u>Sample Type</u> |  |
| 81020 - (Sulfate)<br>(Year Round) (ML-1) (RF-C)                     | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 81017 - (Chem. Oxygen Demand)<br>(Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-1) (RF-C)      | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |
| 00984 - (Titanium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |  |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
Discharge from Sediment Trap #9 to a Rock Lined Ditch

**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 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff)

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

| <u><b>Effluent Characteristic</b></u>                               | <u><b>Discharge Limitations</b></u> |                     |                           | <u><b>Monitoring Requirements</b></u> |                           |           |
|---------------------------------------------------------------------|-------------------------------------|---------------------|---------------------------|---------------------------------------|---------------------------|-----------|
|                                                                     | <u><b>Quantity</b></u>              | <u><b>Units</b></u> | <u><b>Other Units</b></u> | <u><b>Measurement Frequency</b></u>   | <u><b>Sample Type</b></u> |           |
| 50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-C) | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | Rpt Only<br>Max. Daily                | 1/6 months                | Estimated |
| 00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | Rpt Only<br>Max. Daily                | 1/6 months                | Grab      |
| 00400 - (pH) (Year Round) (ML-1) (RF-C)                             | N/A                                 | N/A                 | Rpt Only<br>Inst. Min.    | Rpt Only<br>Inst. Max.                | 1/6 months                | Grab      |
| 01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | Rpt Only<br>Max. Daily                | 1/6 months                | Grab      |
| 71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | Rpt Only<br>Max. Daily                | 1/6 months                | Grab      |
| 01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)        | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | Rpt Only<br>Max. Daily                | 1/6 months                | Grab      |
| 00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)    | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | Rpt Only<br>Max. Daily                | 1/6 months                | Grab      |
| 01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)            | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | Rpt Only<br>Max. Daily                | 1/6 months                | Grab      |

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

**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 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff)

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> |
| 81020 - (Sulfate)<br>(Year Round) (ML-1) (RF-C)                     | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 81017 - (Chem. Oxygen Demand)<br>(Year Round) (ML-1) (RF-C)         | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-1) (RF-C)      | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |
| 00984 - (Titanium, Total Recoverable)<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | N/A                | Rpt Only<br>Max. Daily         | 1/6 months                   | Grab               |

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

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

**A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 007 (Storm Water Runoff)

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

| <u><b>Effluent Characteristic</b></u>                               | <u><b>Discharge Limitations</b></u> |                     |                           | <u><b>Monitoring Requirements</b></u> |                           |  |
|---------------------------------------------------------------------|-------------------------------------|---------------------|---------------------------|---------------------------------------|---------------------------|--|
|                                                                     | <u><b>Quantity</b></u>              | <u><b>Units</b></u> | <u><b>Other Units</b></u> | <u><b>Measurement Frequency</b></u>   | <u><b>Sample Type</b></u> |  |
| 50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-C) | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Estimated                 |  |
| 00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 00400 - (pH) (Year Round) (ML-1) (RF-C)                             | N/A                                 | N/A                 | Rpt Only<br>Inst. Min.    | 1/6 months                            | Grab                      |  |
| 01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)         | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 01105 - (Aluminum, Total (as Al)) (Year Round) (ML-1) (RF-C)        | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)    | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-C)            | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |

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

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

**A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) 007 (Storm Water Runoff)

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>Measurement Frequency</u>   | <u>Sample Type</u>     |      |
| 81020 - (Sulfate)<br>(Year Round) (ML-1) (RF-C)                | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 81017 - (Chem. Oxygen Demand)<br>(Year Round) (ML-1) (RF-C)    | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 01152 - (Total Titanium (as Ti))<br>(Year Round) (ML-1) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |

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

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

**A.LCH01 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH01 (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>Measurement Frequency</u>   | <u>Sample Type</u>     | <u>Estimated</u> |
| 50050 - (Flow, in Conduit or thru plant)<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | N/A                    | Rpt Only<br>Avg. Monthly       | Rpt Only<br>Max. Daily | 1/6 months       |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-P) (RF-C)         | N/A                          | N/A          | N/A                    | Rpt Only<br>Avg. Monthly       | Rpt Only<br>Max. Daily | 1/6 months       |
| 00400 - (pH)<br>(Year Round) (ML-P) (RF-C)                             | N/A                          | N/A          | Rpt Only<br>Inst. Min. | N/A                            | Rpt Only<br>Inst. Max. | 1/6 months       |
| 01002 - (Arsenic, Total (as As))<br>(Year Round) (ML-P) (RF-C)         | N/A                          | N/A          | N/A                    | Rpt Only<br>Avg. Monthly       | Rpt Only<br>Max. Daily | 1/6 months       |
| 71900 - (Mercury, Total (as Hg))<br>(Year Round) (ML-P) (RF-C)         | N/A                          | N/A          | N/A                    | Rpt Only<br>Avg. Monthly       | Rpt Only<br>Max. Daily | 1/6 months       |
| 00900 - (Hardness, Total (as CaCO3))<br>(Year Round) (ML-P) (RF-C)     | N/A                          | N/A          | N/A                    | Rpt Only<br>Avg. Monthly       | Rpt Only<br>Max. Daily | 1/6 months       |
| 01055 - (Manganese, Total (as Mn))<br>(Year Round) (ML-P) (RF-C)       | N/A                          | N/A          | N/A                    | Rpt Only<br>Avg. Monthly       | Rpt Only<br>Max. Daily | 1/6 months       |
| 00940 - (Chloride (as Cl))<br>(Year Round) (ML-P) (RF-C)               | N/A                          | N/A          | N/A                    | Rpt Only<br>Avg. Monthly       | Rpt Only<br>Max. Daily | 1/6 months       |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 South Area Leachate Collection Line Discharge prior to entering the treatment system.

**ALCH01 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH01 (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>Measurement Frequency</u>   | <u>Sample Type</u>     |      |
| 01027 - (Cadmium, Total (as Cd))<br>(Year Round) (ML-P) (RF-C)  | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 01042 - (Copper, Total (as Cu))<br>(Year Round) (ML-P) (RF-C)   | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 01105 - (Aluminum, Total (as Al))<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 01051 - (Lead, Total (as Pb))<br>(Year Round) (ML-P) (RF-C)     | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 01034 - (Chromium, Total (as Cr))<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 01147 - (Selenium, Total (as Se))<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 00929 - (Sodium, Total (as Na))<br>(Year Round) (ML-K) (RF-C)   | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |
| 01007 - (Barium, Total (as Ba))<br>(Year Round) (ML-P) (RF-C)   | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | mg/l<br>1/6 months             | Rpt Only<br>Max. Daily | Grab |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 South Area Leachate Collection Line Discharge prior to entering the treatment system.

**A.LCH01 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH01 (Leachate)

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

| <u><b>Effluent Characteristic</b></u>                             | <u><b>Discharge Limitations</b></u> |                     |                           | <u><b>Monitoring Requirements</b></u> |                           |  |
|-------------------------------------------------------------------|-------------------------------------|---------------------|---------------------------|---------------------------------------|---------------------------|--|
|                                                                   | <u><b>Quantity</b></u>              | <u><b>Units</b></u> | <u><b>Other Units</b></u> | <u><b>Frequency</b></u>               | <u><b>Sample Type</b></u> |  |
| 01022 - (Boron, Total (as B))<br>(Year Round) (ML-P) (RF-C)       | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 01062 - (Molybdenum, Total (as Mo))<br>(Year Round) (ML-P) (RF-C) | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-P) (RF-C)      | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 01092 - (Zinc, Total (as Zn))<br>(Year Round) (ML-P) (RF-C)       | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-P) (RF-C)    | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 00680 - (Total Organic Carbon)<br>(Year Round) (ML-P) (RF-C)      | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 01045 - (Iron, Total (as Fe))<br>(Year Round) (ML-P) (RF-C)       | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |
| 01067 - (Nickel, Total (as Ni))<br>(Year Round) (ML-P) (RF-C)     | N/A                                 | N/A                 | Rpt Only<br>Avg. Monthly  | 1/6 months                            | Grab                      |  |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
South Area Leachate Collection Line Discharge prior to entering the treatment system.

**ALCH01 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH01 (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>Measurement Frequency</u>           | <u>Sample Type</u> |      |
| 01087 - (Vanadium, Total (as V))<br>(Year Round) (ML-P) (RF-C)    | N/A                          | N/A          | N/A                | Rpt Only<br>Avg. Monthly<br>Max. Daily | 1/6 months         | Grab |
| 81020 - (Sulfate)<br>(Year Round) (ML-P) (RF-C)                   | N/A                          | N/A          | N/A                | Rpt Only<br>Avg. Monthly<br>Max. Daily | 1/6 months         | Grab |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-P) (RF-C)    | N/A                          | N/A          | N/A                | Rpt Only<br>Avg. Monthly<br>Max. Daily | 1/6 months         | Grab |
| 00410 - (Alkalinity, Total)<br>(Year Round) (ML-P) (RF-C)         | N/A                          | N/A          | N/A                | Rpt Only<br>Avg. Monthly<br>Max. Daily | 1/6 months         | Grab |
| 70300 - (Solids, Total Diss. 180 C)<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | N/A                | Rpt Only<br>Avg. Monthly<br>Max. Daily | 1/6 months         | Grab |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 South Area Leachate Collection Line Discharge prior to entering the treatment system.

**ALCH02 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH02 (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>Monitoring Requirements</u> |                    |
|--------------------------------------------------------------------|------------------------------|--------------|--------------|--------------------|-----------------|--------------|--------------------------------|--------------------|
|                                                                    | <u>Quantity</u>              | <u>Units</u> | <u>Units</u> | <u>Rpt Only</u>    | <u>Rpt Only</u> | <u>Units</u> | <u>Measurement Frequency</u>   | <u>Sample Type</u> |
| 50050 - (Flow in Conduit or thru plant) (Year Round) (ML-P) (RF-C) | N/A                          | N/A          | N/A          | N/A                | Avg. Monthly    | mgd          | 1/6 months                     | Estimated          |
| 00530 - (Total Suspended Solids) (Year Round) (ML-P) (RF-C)        | N/A                          | N/A          | N/A          | Rpt Only           | Avg. Monthly    | mg/l         | 1/6 months                     | Grab               |
| 00400 - (pH) (Year Round) (ML-P) (RF-C)                            | N/A                          | N/A          | N/A          | Rpt Only           | N/A             | S.U.         | 1/6 months                     | Grab               |
| 01002 - (Arsenic, Total (as As)) (Year Round) (ML-P) (RF-C)        | N/A                          | N/A          | N/A          | Rpt Only           | Avg. Monthly    | mg/l         | 1/6 months                     | Grab               |
| 71900 - (Mercury, Total (as Hg)) (Year Round) (ML-P) (RF-C)        | N/A                          | N/A          | N/A          | Rpt Only           | Avg. Monthly    | mg/l         | 1/6 months                     | Grab               |
| 00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-P) (RF-C)    | N/A                          | N/A          | N/A          | Rpt Only           | Avg. Monthly    | mg/l         | 1/6 months                     | Grab               |
| 01055 - (Manganese, Total (as Mn)) (Year Round) (ML-P) (RF-C)      | N/A                          | N/A          | N/A          | Rpt Only           | Avg. Monthly    | mg/l         | 1/6 months                     | Grab               |
| 00940 - (Chloride (as Cl)) (Year Round) (ML-P) (RF-C)              | N/A                          | N/A          | N/A          | Rpt Only           | Avg. Monthly    | mg/l         | 1/6 months                     | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 North Area Leachate Collection Line discharge prior to entering the treatment system.

**A.LCH02 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH02 (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>Monitoring Requirements</u> |                    |
|-----------------------------------------------------------------|------------------------------|--------------|--------------|--------------------------|------------------------|--------------------------------|--------------------|
|                                                                 | <u>Quantity</u>              | <u>Units</u> | <u>Units</u> | <u>Other Units</u>       | <u>Units</u>           | <u>Measurement Frequency</u>   | <u>Sample Type</u> |
| 01027 - (Cadmium, Total (as Cd))<br>(Year Round) (ML-P) (RF-C)  | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |
| 01042 - (Copper, Total (as Cu))<br>(Year Round) (ML-P) (RF-C)   | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |
| 01105 - (Aluminum, Total (as Al))<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |
| 01051 - (Lead, Total (as Pb))<br>(Year Round) (ML-P) (RF-C)     | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |
| 01034 - (Chromium, Total (as Cr))<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |
| 01147 - (Selenium, Total (as Se))<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |
| 00929 - (Sodium, Total (as Na))<br>(Year Round) (ML-K) (RF-C)   | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |
| 01007 - (Barium, Total (as Ba))<br>(Year Round) (ML-P) (RF-C)   | N/A                          | N/A          | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                     | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
North Area Leachate Collection Line discharge prior to entering the treatment system.

**ALCH02 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH02 (Leachate)

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

| Effluent Characteristic                                           | Discharge Limitations |       |                          | Monitoring Requirements |             |  |
|-------------------------------------------------------------------|-----------------------|-------|--------------------------|-------------------------|-------------|--|
|                                                                   | Quantity              | Units | Other Units              | Measurement Frequency   | Sample Type |  |
| 01022 - (Boron, Total (as B))<br>(Year Round) (ML-P) (RF-C)       | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |
| 01062 - (Molybdenum, Total (as Mo))<br>(Year Round) (ML-P) (RF-C) | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-P) (RF-C)      | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |
| 01092 - (Zinc, Total (as Zn))<br>(Year Round) (ML-P) (RF-C)       | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-P) (RF-C)    | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |
| 00680 - (Total Organic Carbon)<br>(Year Round) (ML-P) (RF-C)      | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |
| 01045 - (Iron, Total (as Fe))<br>(Year Round) (ML-P) (RF-C)       | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |
| 01067 - (Nickel, Total (as Ni))<br>(Year Round) (ML-P) (RF-C)     | N/A                   | N/A   | Rpt Only<br>Avg. Monthly | 1/6 months              | Grab        |  |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 North Area Leachate Collection Line discharge prior to entering the treatment system.

**ALCH02 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee is authorized to discharge from Outlet Number(s) LCH02 (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>Measurement Frequency</u>   | <u>Sample Type</u> |
| 01087 - (Vanadium, Total (as V))<br>(Year Round) (ML-P) (RF-C)    | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |
| 81020 - (Sulfate)<br>(Year Round) (ML-P) (RF-C)                   | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |
| 00927 - (Magnesium, Tot (as Mg))<br>(Year Round) (ML-P) (RF-C)    | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |
| 00410 - (Alkalinity, Total)<br>(Year Round) (ML-P) (RF-C)         | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |
| 70300 - (Solids, Total Diss. 180 C)<br>(Year Round) (ML-P) (RF-C) | N/A                          | N/A          | Rpt Only<br>Avg. Monthly | 1/6 months                     | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 North Area Leachate Collection Line discharge prior to entering the treatment system.

**A.MW02 MONITORING WELL REQUIREMENTS:****Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW02 (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>Other Units</u>       |              |                              |                    |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | N/A                      | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00400 - (pH)<br>(Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | N/A                | Rpt Only<br>Inst. Min.   | N/A                      | S.U.         | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl))<br>(Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total)<br>(Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 82057 - (Boron, Total)<br>(Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                | N/A                      | Rpt Only<br>Max. Daily   | UMHO/CM      | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | N/A                      | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00011 - (Temperature, F)<br>(Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                | N/A                      | Rpt Only<br>Max. Daily   | DEG.F        | 1/6 months                   | Grab               |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW-2

**A. MW02 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW02 (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>             |              |                              |                    |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW-2

**A.MW04 MONITORING WELL REQUIREMENTS:  
Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW04 (Monitoring Well)

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

| Monitoring Well Characteristic                                 | Monitoring Requirements |       |                        |                          |                        | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|-------------------------|-------|------------------------|--------------------------|------------------------|-----------------------|-------------|
|                                                                | Quantity                | Units | Other Units            | Units                    |                        |                       |             |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-O) (RF-C) | N/A                     | N/A   | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 00400 - (pH)<br>(Year Round) (ML-O) (RF-C)                     | N/A                     | N/A   | Rpt Only<br>Inst. Min. | N/A                      | Rpt Only<br>Inst. Max. | 1/6 months            | Grab        |
| 00940 - (Chloride (as Cl))<br>(Year Round) (ML-O) (RF-C)       | N/A                     | N/A   | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 00951 - (Fluoride, Total)<br>(Year Round) (ML-O) (RF-C)        | N/A                     | N/A   | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 82057 - (Boron, Total)<br>(Year Round) (ML-O) (RF-C)           | N/A                     | N/A   | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-O) (RF-C)   | N/A                     | N/A   | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-O) (RF-C) | N/A                     | N/A   | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 00011 - (Temperature, F)<br>(Year Round) (ML-O) (RF-C)         | N/A                     | N/A   | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW-4

**A.MW04 MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW04 (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> |                          |              |                              |                    |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW-4

**A.MW06 MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW06 (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)<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                      | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00400 - (pH)<br>(Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | Rpt Only<br>Inst. Min.   | N/A                      | S.U.         | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl))<br>(Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total)<br>(Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 82057 - (Boron, Total)<br>(Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                      | Rpt Only<br>Max. Daily   | UMHO/CM      | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                      | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00011 - (Temperature, F)<br>(Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                      | Rpt Only<br>Max. Daily   | DEG F        | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 MW-6

**A.MW06 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW06 (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>       |              |                              |                    |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW-6

**A.MW08 MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW08 (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>Other Units</u>       |              |                              |                    |
| 00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | N/A                      | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00400 - (pH) (Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | N/A                | Rpt Only<br>Inst. Min.   | N/A                      | S.U.         | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total) (Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 82057 - (Boron, Total) (Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | UMHO/CM      | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca)) (Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily   | DEG.F        | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 MW-8

**A.MW08 MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW08 (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>             |              |                              |                    |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
 MW-8

**A.MW09 MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW09 (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>Other Units</u>     | <u>Other Units</u>       |                        |                              |                    |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |
| 00400 - (pH)<br>(Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | N/A                | Rpt Only<br>Inst. Min. | N/A                      | Rpt Only<br>Inst. Max. | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl))<br>(Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total)<br>(Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |
| 82057 - (Boron, Total)<br>(Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |
| 00011 - (Temperature, F)<br>(Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 MW-9

**A.MW09 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW09 (Monitoring Well)

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

| Monitoring Well<br>Characteristic                                    | Monitoring Requirements |       |             |                          | Units                  | Measurement<br>Frequency | Sample<br>Type |
|----------------------------------------------------------------------|-------------------------|-------|-------------|--------------------------|------------------------|--------------------------|----------------|
|                                                                      | Quantity                | Units | Other Units |                          |                        |                          |                |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                     | N/A   | N/A         | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months               | Grab           |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                     | N/A   | N/A         | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months               | Grab           |

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

MW-9

**A.MW10 MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW10 (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)<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00400 - (pH)<br>(Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | Rpt Only<br>Inst. Min. | N/A                      | S.U.         | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl))<br>(Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total)<br>(Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 82057 - (Boron, Total)<br>(Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | UMHO/CM      | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00011 - (Temperature, F)<br>(Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | DEG.F        | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 MW-10

**A.MW10 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW10 (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>             |              |                              |                    |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |

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

MW-10

**A.MW1801 MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW1801 (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>Other Units</u>     | <u>Other Units</u>       |              |                              |                    |
| 00530 - (Total Suspended Solids)<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00400 - (pH)<br>(Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | N/A                | Rpt Only<br>Inst. Min. | Rpt Only<br>Inst. Max    | S.U.         | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl))<br>(Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total)<br>(Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 82057 - (Boron, Total)<br>(Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance)<br>(Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Max. Daily   | UMHO/CM      | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Max. Daily   | mg/l         | 1/6 months                   | Grab               |
| 00011 - (Temperature, F)<br>(Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                | N/A                    | Rpt Only<br>Max. Daily   | DEG.F        | 1/6 months                   | Grab               |

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

MW-1801

**A.MW1801 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW1801 (Monitoring Well)

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

| <u>Monitoring Well<br/>Characteristic</u>                            | <u>Monitoring Requirements</u> |              |                    |                          | <u>Units</u>           | <u>Measurement<br/>Frequency</u> | <u>Sample<br/>Type</u> |
|----------------------------------------------------------------------|--------------------------------|--------------|--------------------|--------------------------|------------------------|----------------------------------|------------------------|
|                                                                      | <u>Quantity</u>                | <u>Units</u> | <u>Other Units</u> |                          |                        |                                  |                        |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                       | Grab                   |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                       | Grab                   |

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

MW-1801

**A.MW1802 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW1802 (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>Other 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<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00400 - (pH) (Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | N/A                | Rpt Only<br>Inst. Min. | N/A                      | S.U.         | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | N/A                | Rpt Only<br>Max. Daily | mg/l                     | 1/6 months   | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total) (Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | N/A                | Rpt Only<br>Max. Daily | mg/l                     | 1/6 months   | 1/6 months                   | Grab               |
| 82057 - (Boron, Total) (Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | N/A                | Rpt Only<br>Max. Daily | mg/l                     | 1/6 months   | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                | Rpt Only<br>Max. Daily | UMHO/CM                  | 1/6 months   | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca)) (Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Max. Daily | mg/l                     | 1/6 months   | 1/6 months                   | Grab               |
| 00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                | Rpt Only<br>Max. Daily | DEG.F                    | 1/6 months   | 1/6 months                   | Grab               |

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

MW-1802

**A.MW1802 MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW1802 (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> |                          |              |                              |                    |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
MW-1802

**A.MW7R MONITORING WELL REQUIREMENTS:**  
**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW7R (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>Other Units</u>       |              |                              |                    |
| 00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00400 - (pH) (Year Round) (ML-O) (RF-C)                     | N/A                            | N/A          | Rpt Only<br>Inst. Min. | N/A                      | S.U.         | 1/6 months                   | Grab               |
| 00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)       | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00951 - (Fluoride, Total) (Year Round) (ML-O) (RF-C)        | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 82057 - (Boron, Total) (Year Round) (ML-O) (RF-C)           | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)   | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | UMHO/CM      | 1/6 months                   | Grab               |
| 00916 - (Calcium, Total (as Ca)) (Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | mg/l         | 1/6 months                   | Grab               |
| 00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)         | N/A                            | N/A          | N/A                    | Rpt Only<br>Avg. Monthly | DEG.F        | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
 MW-7R

**A.MW7R MONITORING WELL REQUIREMENTS:**

**Permit Limits**

During the period beginning 10/1/2025 and lasting through midnight 8/14/2029 the permittee will monitor Well Number(s) MW7R (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> |                          |                        |                              |                    |
| 81020 - (Sulfate)<br>(Year Round) (ML-O) (RF-C)                      | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |
| 70296 - (Total Dissolved Solids (TDS))<br>(Year Round) (ML-O) (RF-C) | N/A                            | N/A          | N/A                | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months                   | Grab               |

**Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):**  
MW-7R

**B. SCHEDULE OF COMPLIANCE**

1. The permittee shall achieve compliance with the provisions for waste treatment and the discharge limitations specified in this permit in accordance with the following schedule if applicable:

**On or before October 1, 2026**

The permittee shall calculate new backgrounds for calcium, sulfate, and chloride for use in statistical determinations in the Detection Monitoring Program. The new backgrounds shall account for the contribution of contaminants identified by the Other Source Determination in Section D.2.a.(3) and be used to determine if a release from the landfill occurs in the future that is not related to the identified other source(s).

2. Reports of compliance or noncompliance with, and progress reports on the interim and final requirements contained in the above compliance schedule, shall be submitted no later than 14 days following each scheduled date.

### C. OTHER REQUIREMENTS

1. The herein-described treatment works, structures, electrical and mechanical equipment shall be adequately protected from physical damage by the maximum expected one hundred (100) year flood level and operability be maintained during the twenty-five (25) year flood level.
2. The entire leachate treatment/storage facility shall be adequately protected by fencing.
3. This permit does not permit direct discharge of leachate to the waters of the State. All leachate is to be collected and piped or trucked (as allowed by the disposal agreement) to AEP's John Amos Power Plant wastewater treatment facility for ultimate treatment and disposal offsite via WV/NPDES Individual Permit Number No. WV0001074. If for any reason the above referenced facilities can no longer accept the leachate, the permittee shall notify the Director of the Division of Water and Waste Management with the name and location of an alternative site of disposal within fifteen (15) calendar days. A plan for the permanent collection, disposal, and treatment of the leachate shall be submitted within thirty (30) days.

If the plan includes disposal at a Publicly Owned Treatment Works (POTW), the permittee shall provide documentation that an industrial user application has been submitted by the permittee to the new receiving facility's NPDES Permit. Upon regulatory approval of the acceptance, the permittee shall incorporate the change into this permit via a minor permit modification application within sixty (60) days of approval.

If the permittee intends to discharge directly to Waters of the State, the permittee shall apply for a major modification to this permit.

If the disposal will ultimately be performed at a facility of type not listed above (i.e., industrial NPDES facility, hazardous waste management facility, etc.) the permittee shall provide documentation of the approval of acceptance of the leachate by the receiving facility within the thirty (30) day notification.

4. The following storm water requirements apply to Outlet(s) 002, 003, 004, 005, 006, 007:
  - a. Samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Samples shall be taken during the first thirty (30) minutes, or as soon thereafter as practicable, of the storm event. Controlled outlets (i.e. equipped with a valve, etc) shall be sampled and analyzed when discharging, not to exceed 1/6 months.
  - b. Each outlet shall be monitored separately (as applicable).
  - c. When the concentration results from a minimum of four consecutive samples of a pollutant are all less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.). The facility shall submit, each year, to the Division of Water and Waste Management, in lieu of the monitoring data, a certification (form will be provided upon request) that there has not been a significant change in the industrial

activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the concentration of a pollutant exceeds the corresponding benchmark concentration or a pH value is not within the range of 6.0 to 9.0 S.U., monitoring shall continue, and storm water pollution prevention practices shall be revised or implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the Solid Waste Management Unit no later than 30 days following the end of the reporting period and be addressed as described in requirement C-8 of this permit.

| Parameter                                                                                                                                                                             | Benchmark Concentrations | Units |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|
| COD                                                                                                                                                                                   | 120                      | mg/l  |
| TSS                                                                                                                                                                                   | 100                      | mg/l  |
| Arsenic                                                                                                                                                                               | 0.169                    | mg/l  |
| Aluminum                                                                                                                                                                              | 0.75                     | mg/l  |
| Iron                                                                                                                                                                                  | 1.5                      | mg/l  |
| Magnesium                                                                                                                                                                             | 78.8*                    | mg/l  |
| Selenium                                                                                                                                                                              | 0.02*                    | mg/l  |
| Titanium                                                                                                                                                                              | 0.315*                   | mg/l  |
| Mercury                                                                                                                                                                               | 0.0024*                  | mg/l  |
| pH                                                                                                                                                                                    | 6 - 9                    | s.u.  |
| * Mg is based on the Hyallela Azteca LC50 x 0.1 (ECOTOX)<br>Se is based on the acute WQC<br>Ti is based on the Hyallela Azteca LC50 x 0.1 (AEP, 2025)<br>Hg is based on the acute WQC |                          |       |

- d. Unless also imposed in Section A of this permit, the benchmark concentrations listed above are not effluent limitations and shall not be interpreted or adopted as such.
- e. Compliance with the benchmark concentrations does not relieve the permittee from implementing their BMPs. **All leachate must be collected in the leachate collection system and treated.**

5. Leachate storage basins were approved in 2006 as being designed to maintain an operational level capable of storing a volume equal to 30 days of the average leachate flow with a minimum two (2) feet of freeboard.

The permittee shall continue to operate the automated pumping system to maintain the approved operational design levels. Should the permittee become aware that these operational levels are no longer being met, the permittee shall submit plans to increase the volume of leachate storage within thirty (30) days of becoming aware.

6. The permittee shall submit semi-annually 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 Section A analytically determined to be in the effluent(s). Additional information pertaining to effluent monitoring and reporting can be found in Section III of Appendix A.
7. Monitoring Reports. The ground and surface water sampling analysis monitoring reports as required in Part II, Section A of this permit shall be submitted electronically to the Department of Environmental Protection's (WVDEP) electronic filing system and be electronically filed no later than the twenty-fifth (25) day of the end of the reporting period. All other reporting should be addressed to:

**Division of Water and Waste Management**  
601 57<sup>th</sup> Street, S.E.  
Charleston, West Virginia 25304  
Attention: Solid Waste Management Unit

And

**Environmental Enforcement**  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304  
Attention: Inspector Supervisor

8. The analytical test procedures set for in 40 CFR Part 136, prescribes colorimetric methods for certain parameters. The digestion process for the performance of total recoverable is not sufficient for the utilization of a colorimetric procedure. Therefore, colorimetric procedures shall not be acceptable for the analysis of parameters prescribed as total recoverable.
9. The permittee shall continue to implement and maintain a stormwater pollution prevention plan (SWPPP) for the site. The SWPPP shall be prepared in accordance with good engineering practices. The SWPPP shall identify potential sources of pollution, which may reasonably be expected to affect the quality of storm water discharges associated with the industrial activity. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with the solid waste handling activities at the facility and to assure compliance with the terms and conditions of this permit. A copy of this document shall be retained at the site for review upon request.
10. The permittee shall have and implement a seep management plan to repair all identified seeps as soon as possible.
11. If there is evidence indicating potential or realized impacts on water quality due to any discharge associated with any activity covered by the permit, the permit may be promptly modified and/or reissued to include effluent limitations and/or other requirements to control such discharges.
12. 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 lower method detection level. Regardless, it is recognized that detection levels can vary from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation

| Parameter | EPA Method       |
|-----------|------------------|
| Arsenic   | 200.8            |
| Selenium  | 200.8            |
| Mercury   | 1631 or<br>245.7 |

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.

## **D. GROUNDWATER MONITORING**

### **1. Monitoring Well Reporting**

- a. The permittee shall submit Groundwater Monitoring Well Reports indicating in terms of concentration the values of the constituents listed. One hundred twenty (120) days shall transpire between sampling events. If concentration levels are found to be below method detection limits, so note and report the specific method detection limit.
- b. Groundwater shall be sampled in accordance with 40 CFR 257.91-93. The stabilized values for pH, Temperature, and Specific Conductance obtained during purging shall be retained as stated in Section III.6 of Appendix A
- c. The permittee shall each monitoring event determine the rate and direction of groundwater flow in the uppermost significant aquifer. Said report shall be submitted concurrently with the semi-annual or annual report(s).
- d. The permittee shall determine whether there is a statistically significant increase over background levels for each 40 CFR 257 Appendix III parameter listed in Sections A. If the permittee determines that there is a statistically significant increase over background for any parameter listed in 40 CFR 257 Appendix III of 40 CFR 257, the permittee shall comply with the requirements of Section D.1.e.
- e. If a statistically significant increase over background concentrations is confirmed per the procedures in 40 CFR 257.94 for any 40 CFR 257 Appendix III parameter, the permittee must do the following:
  - (1) Within thirty (30) 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 ninety (90) day period of said finding, establish an assessment monitoring program and analyze the groundwater for all constituents listed in Appendix IV of 40 CFR 257.
  - (3) Within ninety (90) days of triggering the assessment sampling required by D.1.e.(2), the permittee must:

Resample all groundwater for all parameters in Appendix IV of 40 CFR 257 and semi-annually thereafter.

Establish groundwater protection standards for all constituents in Appendix IV detected in the repeat sampling per 40 CFR 257.95(h). For any groundwater standard not already incorporated into this permit, the permit shall submit a major permit modification application to incorporate the groundwater standard in Section A of the permit.

- (4) If the concentrations of all constituents listed in Appendix IV of 40 CFR 257 to this part are shown to be statistically at or below background values, the permittee may return to detection monitoring.

If the concentrations of any constituent in Appendix IV of 40 CFR 257 to this part are above background values, but all concentrations are below the groundwater protection standard established under 40 CFR 257.95(h) or in Section A of this permit, the owner or operator must continue assessment monitoring.

- (5) Established groundwater standards and preventative action limits (PALs) are documented in Section D.2.b
- f. Within ninety (90) days of finding that any of the constituents listed in Appendix IV of 40 CFR 257 to this part have been detected at a statistically significant level exceeding the groundwater protection standards the permittee shall initiate an assessment of corrective action measures per 40 CFR 257.96. At a minimum the permittee shall:
- (1) Characterize the nature and extent of the release and any relevant site conditions that may affect cleanup of any releases. Including installing additional monitoring wells to define the contaminant plume including at least one at the facility boundary in the direction of contaminant migration, collecting data on the nature and estimated quantity of material released, and resampling all wells to define the nature and extent of release.
  - (2) Notify all persons who own the land or reside on the land that directly overlies any part of the plume of contamination if contaminants have migrated off-site.
  - (3) Initiate an assessment of Corrective Measures as required by 40 CFR 257.96 and Section D.1.f or demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.
- g. Within ninety (90) days of finding that any constituent listed in Appendix IV of 40 CFR 257 has been detected at a statistically significant level exceeding the groundwater protection standard, or immediately upon detection of a release from a CCR unit, the permittee shall initiate an assessment of corrective measures to prevent further releases, to remediate any releases and to restore affected area to original conditions. The assessment of corrective measures must be completed within ninety (90) days, unless the permittee demonstrates the need for additional time to complete the assessment of corrective measures due to site-specific conditions or circumstances.
- (1) Within thirty (30) days of a finding that the permittee must perform an assessment of corrective measures per 40 CFR 257.95 the permittee shall notify the Director and place the notification in the operating record.

Upon completion of the assessment of corrective measures the permittee shall place a notification in the operating record.

- (2) Specific requirements necessary to complete assessment of corrective action are included in Section D.2.c.
- h. Based on the results of the corrective measures assessment, the permittee must, as soon as feasible, obtain approval from the Director for a remedy meeting the requirements of 40 CFR 257.97 via a major permit modification application.

The modification application shall include documentation of the results of a public meeting compliant with 40 CFR 257.96(e).

- (1) Approved remediation / remedy decisions and their specific requirements are documented in Section D.2.d.
  - i. Nothing in this Section D.1 shall relieve the permittee from compliance with the latest effective revision of 40 CFR 257.90-98 (excluding 40 CFR 257.95(h)(2)). In situations where the equivalent part of Section D and the latest effective version of CFR 257.90-98 (excluding 40 CFR 257.95(h)(2)) differ the permittee shall comply with 40 CFR 257.90-98 (excluding 40 CFR 257.95(h)(2)).
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 program per 40 CFR 257.90-98:

a. DETECTION PROGRAM - PHASE I

Per 40 CFR 257.94, the permittee shall comply with Section D.1.e / 40 CFR 257.95(h) upon an exceedance of the respective background (Detection monitoring) or the groundwater standard (Assessment monitoring) in each respective monitoring well. Upon moving from a Detection program to an Assessment program the permittee shall submit a major permit modification to revise Section D of the permit. Some wells listed here may be under an Assessment program, those wells shall be monitored per Section D.2.b and upon satisfying that section (i.e. all results at or below backgrounds) return to a Detection program.

- (1) The following wells shall be evaluated via intrawell statistics for all parameters in Section A not listed in Section D.2.b:

N/A

- (2) The following wells shall be evaluated via interwell statistics for all parameters in Section A not listed in Section D.2.b:

Downgradient Wells: MW-1801, MW-1802, MW-2, and MW-4  
Upgradient Wells: MW-6, MW-7R, MW-8, MW-9, and MW-10

- (3) The following Other Source Demonstrations (OSD)\* were approved per 40 CFR 257.94(e):

*Chloride, Calcium, and Sulfate*

ALTERNATIVE SOURCE DEMONSTRATION REPORT – SECOND SEMIANNUAL  
DETECTION EVENT 2023, FEDERAL CCR RULE dated June 2024

\* Calculation of the groundwater backgrounds at the site for the purpose of Detection Monitoring shall be revised for the identified parameters and other sources and used for future program statistical determinations per Section D.1.e.

b. ASSESSMENT PROGRAM – PHASE II

Phase II Monitoring is not required at this time.

c. CORRECTIVE ACTION ASSESSMENT PROGRAM

[Reserved]

d. CORRECTIVE ACTION PROGRAM – REMEDY

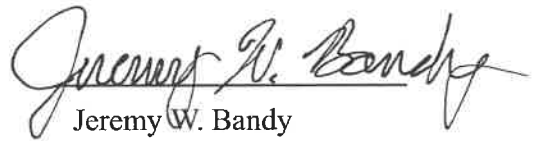
[Reserved]

Any person having interest which is or may be adversely affected or who is aggrieved by the issuance of the permit's terms or conditions, may appeal to the Environmental Quality Board as provided in Article 1, Chapter 22B of the Code of West Virginia.

August 15, 2025

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Date of Issuance

A handwritten signature in black ink, reading "Jeremy W. Bandy". The signature is written in a cursive style with a horizontal line through the middle of the letters.

Jeremy W. Bandy  
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

Permit Limits

FACILITY NAME: (Appalachian Power Company - John E. Amos Landfill) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 001  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                         |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-------------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                   |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 50050 (ML-1) RF-C<br>Flow, in Conduit or thru plant<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mgd   |      | 1/6 months            | Estimated   |
| 00530 (ML-1) RF-C<br>Total Suspended Solids<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00400 (ML-1) RF-C<br>pH<br>Year Round                             | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | N/A                      | Rpt Only<br>Inst. Min. | N/A  | S.U.  |      | 1/6 months            | Grab        |
| 01002 (ML-1) RF-C<br>Arsenic, Total (as As)<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 71900 (ML-1) RF-C<br>Mercury, Total (as Hg)<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01105 (ML-1) RF-C<br>Aluminum, Total (as Al)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Name of Principal Executive Officer<br><br> | 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<br><br>                                               |
| Title of Officer<br><br>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signature of Principal Executive Officer or Authorized Agent<br><br> |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA

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

LOCATION OF FACILITY: WINFIELD, Putnam County

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

PERMIT NO.: WV0116254 001

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

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

| Parameter                                                      |               | Quantity |     | Other Units |  |  |  | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|---------------|----------|-----|-------------|--|--|--|-------|-------|------|-----------------------|-------------|
|                                                                |               |          |     |             |  |  |  |       |       |      |                       |             |
| 00981 (ML-1) RF-C<br>Selenium, Total Recoverable<br>Year Round | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 01045 (ML-1) RF-C<br>Iron, Total (as Fe)<br>Year Round         | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-1) RF-C<br>Sulfate<br>Year Round                     | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81017 (ML-1) RF-C<br>Chem. Oxygen Demand<br>Year Round         | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-1) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round      | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00984 (ML-1) RF-C<br>Titanium, Total Recoverable<br>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  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (APPALACHIA) CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 002  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                         |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-------------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                   |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 50050 (ML-1) RF-C<br>Flow, In Conduit or thru plant<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mgd   |      | 1/6 months            | Estimated   |
| 00530 (ML-1) RF-C<br>Total Suspended Solids<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00400 (ML-1) RF-C<br>pH<br>Year Round                             | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | N/A                      | Rpt Only<br>Inst. Min. | N/A  | S.U.  |      | 1/6 months            | Grab        |
| 01002 (ML-1) RF-C<br>Arsenic, Total (as As)<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 71900 (ML-1) RF-C<br>Mercury, Total (as Hg)<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01105 (ML-1) RF-C<br>Aluminum, Total (as Al)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                         |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 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<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |                                                                                           |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                         |                                                                                           |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 002  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                      |               | Quantity |     | Other Units |  |  |  | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|---------------|----------|-----|-------------|--|--|--|-------|-------|------|-----------------------|-------------|
|                                                                |               |          |     |             |  |  |  |       |       |      |                       |             |
| 00981 (ML-1) RF-C<br>Selenium, Total Recoverable<br>Year Round | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 01045 (ML-1) RF-C<br>Iron, Total (as Fe)<br>Year Round         | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-1) RF-C<br>Sulfate<br>Year Round                     | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81017 (ML-1) RF-C<br>Chem. Oxygen Demand<br>Year Round         | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-1) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round      | Reported      |          |     |             |  |  |  |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |             |  |  |  | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00984 (ML-1) RF-C<br>Titanium, Total Recoverable<br>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 |
|                                     | Signature of Principal Executive Officer or Authorized Agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                |
| Title of Officer                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (APPALACHIA) CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 003  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                        |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|------------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                  |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 50050 (ML-1) RF-C<br>Flow in Conduit or thru plant<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mgd   |      | 1/6 months            | Estimated   |
| 00530 (ML-1) RF-C<br>Total Suspended Solids<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00400 (ML-1) RF-C<br>pH<br>Year Round                            | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | N/A                      | Rpt Only<br>Inst. Max. | N/A  | S.U.  |      | 1/6 months            | Grab        |
| 01002 (ML-1) RF-C<br>Arsenic, Total (as As)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 71900 (ML-1) RF-C<br>Mercury, Total (as Hg)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01105 (ML-1) RF-C<br>Aluminum, Total (as Al)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                         |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 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<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |                                                                                           |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                         |                                                                                           |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill/APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 003  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                      |               | Quantity |     |  | Other Units |                          |                        | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|-------|-------|------|-----------------------|-------------|
|                                                                |               |          |     |  |             |                          |                        |       |       |      |                       |             |
| 00981 (ML-1) RF-C<br>Selenium, Total Recoverable<br>Year Round | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 01045 (ML-1) RF-C<br>Iron, Total (as Fe)<br>Year Round         | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-1) RF-C<br>Sulfate<br>Year Round                     | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81017 (ML-1) RF-C<br>Chem. Oxygen Demand<br>Year Round         | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-1) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round      | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00984 (ML-1) RF-C<br>Titanium, Total Recoverable<br>Year Round | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|
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|                                     | Signature of Principal Executive Officer or Authorized Agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                |
| Title of Officer                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 004  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                         | Quantity      | Other Units |      |  |                          | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|-------------------------------------------------------------------|---------------|-------------|------|--|--------------------------|-------|-------|------|-----------------------|-------------|
|                                                                   |               | Units       | N.E. |  |                          |       |       |      |                       |             |
| 50050 (ML-1) RF-C<br>Flow, in Conduit or thru plant<br>Year Round | Reported      |             |      |  |                          |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A         |      |  | Rpt Only<br>Avg. Monthly |       |       |      | 1/6 months            | Estimated   |
| 00530 (ML-1) RF-C<br>Total Suspended Solids<br>Year Round         | Reported      |             |      |  |                          |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A         |      |  | Rpt Only<br>Avg. Monthly |       |       |      | 1/6 months            | Grab        |
| 00400 (ML-1) RF-C<br>pH<br>Year Round                             | Reported      |             |      |  |                          |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A         |      |  | Rpt Only<br>Inst. Min.   |       |       |      | 1/6 months            | Grab        |
| 01002 (ML-1) RF-C<br>Arsenic, Total (as As)<br>Year Round         | Reported      |             |      |  |                          |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A         |      |  | Rpt Only<br>Avg. Monthly |       |       |      | 1/6 months            | Grab        |
| 71900 (ML-1) RF-C<br>Mercury, Total (as Hg)<br>Year Round         | Reported      |             |      |  |                          |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A         |      |  | Rpt Only<br>Avg. Monthly |       |       |      | 1/6 months            | Grab        |
| 01105 (ML-1) RF-C<br>Aluminum, Total (as Al)<br>Year Round        | Reported      |             |      |  |                          |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A         |      |  | Rpt Only<br>Avg. Monthly |       |       |      | 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                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 004  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                      |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 00981 (ML-1) RF-C<br>Selenium, Total Recoverable<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01045 (ML-1) RF-C<br>Iron, Total (as Fe)<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-1) RF-C<br>Sulfate<br>Year Round                     | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 81017 (ML-1) RF-C<br>Chem. Oxygen Demand<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-1) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round      | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00984 (ML-1) RF-C<br>Titanium, Total Recoverable<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                         |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 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<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> |                                                                                           |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                         |                                                                                           |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill/APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 005  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                        |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|------------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                  |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 50050 (ML-1) RF-C<br>Flow in Conduit or thru plant<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mgd   |      | 1/6 months            | Estimated   |
| 00530 (ML-1) RF-C<br>Total Suspended Solids<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00400 (ML-1) RF-C<br>pH<br>Year Round                            | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | N/A                      | Rpt Only<br>Inst. Min. | N/A  | S.U.  |      | 1/6 months            | Grab        |
| 01002 (ML-1) RF-C<br>Arsenic, Total (as As)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 71900 (ML-1) RF-C<br>Mercury, Total (as Hg)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01105 (ML-1) RF-C<br>Aluminum, Total (as Al)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|
| 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                                                              |
| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill/APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 005  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                      | Reported      | Quantity |     | Units |  | Other Units |  |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|---------------|----------|-----|-------|--|-------------|--|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                |               |          |     |       |  |             |  |                          |                        |      |       |      |                       |             |
| 00981 (ML-1) RF-C<br>Selenium, Total Recoverable<br>Year Round | Reported      |          |     |       |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |       |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01045 (ML-1) RF-C<br>Iron, Total (as Fe)<br>Year Round         | Reported      |          |     |       |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |       |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-1) RF-C<br>Sulfate<br>Year Round                     | Reported      |          |     |       |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |       |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 81017 (ML-1) RF-C<br>Chem. Oxygen Demand<br>Year Round         | Reported      |          |     |       |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |       |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-1) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round      | Reported      |          |     |       |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |       |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00984 (ML-1) RF-C<br>Titanium, Total Recoverable<br>Year Round | Reported      |          |     |       |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |       |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|
| 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                                               |  |
| Name of Principal Executive Officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Signature of Principal Executive Officer or Authorized Agent |  |
| Title of Officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                              |  |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA

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

LOCATION OF FACILITY: WINFIELD; Putnam County

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

PERMIT NO.: WV0116254 006

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

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

| Parameter                                                        |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|------------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                  |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 50050 (ML-1) RF-C<br>Flow/in Conduit or thru plant<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mgd   |      | 1/6 months            | Estimated   |
| 00530 (ML-1) RF-C<br>Total Suspended Solids<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00400 (ML-1) RF-C<br>pH<br>Year Round                            | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | N/A                      | Rpt Only<br>Inst. Min. | N/A  | S.U.  |      | 1/6 months            | Grab        |
| 01002 (ML-1) RF-C<br>Arsenic, Total (as As)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 71900 (ML-1) RF-C<br>Mercury, Total (as Hg)<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01105 (ML-1) RF-C<br>Aluminum, Total (as Al)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>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  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 006  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                      |               | Quantity |     |  | Other Units |                          |                        | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|-------|-------|------|-----------------------|-------------|
|                                                                |               |          |     |  |             |                          |                        |       |       |      |                       |             |
| 00981 (ML-1) RF-C<br>Selenium, Total Recoverable<br>Year Round | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 01045 (ML-1) RF-C<br>Iron, Total (as Fe)<br>Year Round         | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-1) RF-C<br>Sulfate<br>Year Round                     | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81017 (ML-1) RF-C<br>Chem. Oxygen Demand<br>Year Round         | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-1) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round      | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00984 (ML-1) RF-C<br>Titanium, Total Recoverable<br>Year Round | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>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                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |

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

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (Appalachia) CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 007  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                        |               | Quantity |     |  | Other Units |      |                        |       | Measurement Frequency | Sample Type |
|------------------------------------------------------------------|---------------|----------|-----|--|-------------|------|------------------------|-------|-----------------------|-------------|
|                                                                  |               |          |     |  | Units       | N.E. |                        | CEL * | Units                 | N.E.        |
| 50050 (ML-1) RF-C<br>Flow in Conduit or thru plant<br>Year Round | Reported      |          |     |  |             |      |                        |       |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             |      | Rpt Only<br>Max. Daily | N/A   | mgd                   | 1/6 months  |
| 00530 (ML-1) RF-C<br>Total Suspended Solids<br>Year Round        | Reported      |          |     |  |             |      |                        |       |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             |      | Rpt Only<br>Max. Daily | N/A   | mg/l                  | 1/6 months  |
| 00400 (ML-1) RF-C<br>pH<br>Year Round                            | Reported      |          |     |  |             |      |                        |       |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             |      | Rpt Only<br>Inst. Max. | N/A   | S.U.                  | 1/6 months  |
| 01002 (ML-1) RF-C<br>Arsenic, Total (as As)<br>Year Round        | Reported      |          |     |  |             |      |                        |       |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             |      | Rpt Only<br>Max. Daily | N/A   | mg/l                  | 1/6 months  |
| 71900 (ML-1) RF-C<br>Mercury, Total (as Hg)<br>Year Round        | Reported      |          |     |  |             |      |                        |       |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             |      | Rpt Only<br>Max. Daily | N/A   | mg/l                  | 1/6 months  |
| 01105 (ML-1) RF-C<br>Aluminum, Total (as Al)<br>Year Round       | Reported      |          |     |  |             |      |                        |       |                       |             |
|                                                                  | Permit Limits | N/A      | N/A |  |             |      | Rpt Only<br>Max. Daily | N/A   | mg/l                  | 1/6 months  |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|
| 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<br>_____ |  |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 007  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                      |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|----------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 00981 (ML-1) RF-C<br>Selenium, Total Recoverable<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01045 (ML-1) RF-C<br>Iron, Total (as Fe)<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-1) RF-C<br>Sulfate<br>Year Round                     | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 81017 (ML-1) RF-C<br>Chem. Oxygen Demand<br>Year Round         | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-1) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round      | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01152 (ML-1) RF-C<br>Total Titanium (as Ti)<br>Year Round      | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>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                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (APPALACH) CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 LCH01  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                         | Quantity      | Other Units |      |       |                          | Measurement Frequency  | Sample Type             |
|-------------------------------------------------------------------|---------------|-------------|------|-------|--------------------------|------------------------|-------------------------|
|                                                                   |               | Units       | N.E. | CEL * | Units                    | N.E.                   |                         |
| 50050 (ML-P) RF-C<br>Flow, in Conduit or thru plant<br>Year Round | Reported      |             |      |       |                          |                        |                         |
|                                                                   | Permit Limits | N/A         | N/A  |       | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months<br>Estimated |
| 00530 (ML-P) RF-C<br>Total Suspended Solids<br>Year Round         | Reported      |             |      |       |                          |                        |                         |
|                                                                   | Permit Limits | N/A         | N/A  |       | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months<br>Grab      |
| 00400 (ML-P) RF-C<br>pH<br>Year Round                             | Reported      |             |      |       |                          |                        |                         |
|                                                                   | Permit Limits | N/A         | N/A  |       | Rpt Only<br>Inst. Min.   | Rpt Only<br>Inst. Max. | 1/6 months<br>Grab      |
| 01002 (ML-P) RF-C<br>Arsenic, Total (as As)<br>Year Round         | Reported      |             |      |       |                          |                        |                         |
|                                                                   | Permit Limits | N/A         | N/A  |       | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months<br>Grab      |
| 71900 (ML-P) RF-C<br>Mercury, Total (as Hg)<br>Year Round         | Reported      |             |      |       |                          |                        |                         |
|                                                                   | Permit Limits | N/A         | N/A  |       | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months<br>Grab      |
| 00900 (ML-P) RF-C<br>Hardness, Total (as CaCO3)<br>Year Round     | Reported      |             |      |       |                          |                        |                         |
|                                                                   | Permit Limits | N/A         | N/A  |       | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months<br>Grab      |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|
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| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                         |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 LCH01  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                   |               | Quantity |     |  | Other Units |  |  | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-------------------------------------------------------------|---------------|----------|-----|--|-------------|--|--|------|-------|------|-----------------------|-------------|
|                                                             |               |          |     |  |             |  |  |      |       |      |                       |             |
| 01055 (ML-P) RF-C<br>Manganese, Total (as Mn)<br>Year Round | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00940 (ML-P) RF-C<br>Chloride (as Cl)<br>Year Round         | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01027 (ML-P) RF-C<br>Cadmium, Total (as Cd)<br>Year Round   | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01042 (ML-P) RF-C<br>Copper, Total (as Cu)<br>Year Round    | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01105 (ML-P) RF-C<br>Aluminum, Total (as Al)<br>Year Round  | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01051 (ML-P) RF-C<br>Lead, Total (as Pb)<br>Year Round      | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------|
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| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |                               |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill/APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 LCH01  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                    |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|--------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                              |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 01034 (ML-P) RF-C<br>Chromium, Total (as Cr)<br>Year Round   | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01147 (ML-P) RF-C<br>Selenium, Total (as Se)<br>Year Round   | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00929 (ML-K) RF-C<br>Sodium, Total (as Na)<br>Year Round     | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01007 (ML-P) RF-C<br>Barium, Total (as Ba)<br>Year Round     | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01022 (ML-P) RF-C<br>Boron, Total (as B)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01062 (ML-P) RF-C<br>Molybdenum, Total (as Mo)<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------|
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| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |                               |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill/APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 LCH01  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                 | Reported      | Quantity |     |  | Other Units |  |  | CEL* | Units   | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|--|--|------|---------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |  |  |      |         |      |                       |             |
| 00095 (ML-P) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | UMHO/CM |      | 1/6 months            | Grab        |
| 01092 (ML-P) RF-C<br>Zinc, Total (as Zn)<br>Year Round    | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00916 (ML-P) RF-C<br>Calcium, Total (as Ca)<br>Year Round | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00680 (ML-P) RF-C<br>Total Organic Carbon<br>Year Round   | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 01045 (ML-P) RF-C<br>Iron, Total (as Fe)<br>Year Round    | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 01067 (ML-P) RF-C<br>Nickel, Total (as Ni)<br>Year Round  | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|
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| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 LCH01  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                    |               | Quantity |     | Other Units |      |                          |                        | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|--------------------------------------------------------------|---------------|----------|-----|-------------|------|--------------------------|------------------------|-------|-------|------|-----------------------|-------------|
|                                                              |               |          |     | Units       | N.E. |                          |                        |       |       |      |                       |             |
| 01087 (ML-P) RF-C<br>Vanadium, Total (as V)<br>Year Round    | Reported      |          |     |             |      |                          |                        |       |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |             |      | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 81020 (ML-P) RF-C<br>Sulfate<br>Year Round                   | Reported      |          |     |             |      |                          |                        |       |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |             |      | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00927 (ML-P) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round    | Reported      |          |     |             |      |                          |                        |       |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |             |      | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00410 (ML-P) RF-C<br>Alkalinity, Total<br>Year Round         | Reported      |          |     |             |      |                          |                        |       |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |             |      | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 70300 (ML-P) RF-C<br>Solids, Total Diss. 180 C<br>Year Round | Reported      |          |     |             |      |                          |                        |       |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |             |      | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |

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|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Name of Principal Executive Officer<br><br> | 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<br><br>                                               |
| Title of Officer<br><br>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signature of Principal Executive Officer or Authorized Agent<br><br> |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (APPALACHIA)

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

LOCATION OF FACILITY: WINFIELD; Putnam County

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

PERMIT NO.: WV0116254LCH02

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

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

| Parameter                                                         | Reported      | Quantity |     |  | Other Units |                          |                        | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|-------------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|-------|-------|------|-----------------------|-------------|
|                                                                   |               |          |     |  |             |                          |                        |       |       |      |                       |             |
| 50050 (ML-P) RF-C<br>Flow, in Conduit or thru plant<br>Year Round | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mgd   |      | 1/6 months            | Estimated   |
| 00530 (ML-P) RF-C<br>Total Suspended Solids<br>Year Round         | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00400 (ML-P) RF-C<br>pH<br>Year Round                             | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | N/A                      | Rpt Only<br>Inst. Max. | N/A   | S.U.  |      | 1/6 months            | Grab        |
| 01002 (ML-P) RF-C<br>Arsenic, Total (as As)<br>Year Round         | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 71900 (ML-P) RF-C<br>Mercury, Total (as Hg)<br>Year Round         | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00900 (ML-P) RF-C<br>Hardness, Total (as CaCO3)<br>Year Round     | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                   | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>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  
LEACHATE ANALYSIS REPORT

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (APPALACHIA) CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 LCH02  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                   | Quantity      | Other Units |      |  |  | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-------------------------------------------------------------|---------------|-------------|------|--|--|------|-------|------|-----------------------|-------------|
|                                                             |               | Units       | N.E. |  |  |      |       |      |                       |             |
| 01055 (ML-P) RF-C<br>Manganese, Total (as Mn)<br>Year Round | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A         |      |  |  |      |       |      | 1/6 months            | Grab        |
| 00940 (ML-P) RF-C<br>Chloride (as Cl)<br>Year Round         | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A         |      |  |  |      |       |      | 1/6 months            | Grab        |
| 01027 (ML-P) RF-C<br>Cadmium, Total (as Cd)<br>Year Round   | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A         |      |  |  |      |       |      | 1/6 months            | Grab        |
| 01042 (ML-P) RF-C<br>Copper, Total (as Cu)<br>Year Round    | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A         |      |  |  |      |       |      | 1/6 months            | Grab        |
| 01105 (ML-P) RF-C<br>Aluminum, Total (as Al)<br>Year Round  | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A         |      |  |  |      |       |      | 1/6 months            | Grab        |
| 01051 (ML-P) RF-C<br>Lead, Total (as Pb)<br>Year Round      | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                             | Permit Limits | N/A         |      |  |  |      |       |      | 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                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (APPALACH) CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 LCH02  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                    |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|--------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                              |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 01034 (ML-P) RF-C<br>Chromium, Total (as Cr)<br>Year Round   | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01147 (ML-P) RF-C<br>Selenium, Total (as Se)<br>Year Round   | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00929 (ML-K) RF-C<br>Sodium, Total (as Na)<br>Year Round     | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01007 (ML-P) RF-C<br>Barium, Total (as Ba)<br>Year Round     | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01022 (ML-P) RF-C<br>Boron, Total (as B)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 01062 (ML-P) RF-C<br>Molybdenum, Total (as Mo)<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                              | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>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                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA

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

LOCATION OF FACILITY: WINFIELD, Putnam County

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

PERMIT NO.: WV0116254LCH02

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

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

| Parameter                                                 |               | Quantity |     |  | Other Units |  |  |  | CEL * | Units   | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|--|--|--|-------|---------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |  |  |  |       |         |      |                       |             |
| 00095 (ML-P) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |  |  |  |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |  | N/A   | UMHO/CM |      | 1/6 months            | Grab        |
| 01092 (ML-P) RF-C<br>Zinc, Total (as Zn)<br>Year Round    | Reported      |          |     |  |             |  |  |  |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |  | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 00916 (ML-P) RF-C<br>Calcium, Total (as Ca)<br>Year Round | Reported      |          |     |  |             |  |  |  |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |  | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 00680 (ML-P) RF-C<br>Total Organic Carbon<br>Year Round   | Reported      |          |     |  |             |  |  |  |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |  | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 01045 (ML-P) RF-C<br>Iron, Total (as Fe)<br>Year Round    | Reported      |          |     |  |             |  |  |  |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |  | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 01067 (ML-P) RF-C<br>Nickel, Total (as Ni)<br>Year Round  | Reported      |          |     |  |             |  |  |  |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |  | 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 |
|                                     | Signature of Principal Executive Officer or Authorized Agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                |
| Title of Officer                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill APPALACHIA

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

LOCATION OF FACILITY: WINFIELD; Putnam County

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

PERMIT NO.: WV0116254LCH02

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

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

| Parameter                                                    | Quantity      | Other Units |      |  |  | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|--------------------------------------------------------------|---------------|-------------|------|--|--|------|-------|------|-----------------------|-------------|
|                                                              |               | Units       | N.E. |  |  |      |       |      |                       |             |
| 01087 (ML-P) RF-C<br>Vanadium, Total (as V)<br>Year Round    | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                              | Permit Limits | N/A         |      |  |  |      |       |      |                       |             |
| 81020 (ML-P) RF-C<br>Sulfate<br>Year Round                   | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                              | Permit Limits | N/A         |      |  |  |      |       |      |                       |             |
| 00927 (ML-P) RF-C<br>Magnesium, Tot (as Mg)<br>Year Round    | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                              | Permit Limits | N/A         |      |  |  |      |       |      |                       |             |
| 00410 (ML-P) RF-C<br>Alkalinity, Total<br>Year Round         | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                              | Permit Limits | N/A         |      |  |  |      |       |      |                       |             |
| 70300 (ML-P) RF-C<br>Solids, Total Diss. 180 C<br>Year Round | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                              | Permit Limits | N/A         |      |  |  |      |       |      |                       |             |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                         |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 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<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |                                                                                           |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                         |                                                                                           |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA

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

LOCATION OF FACILITY: WINFIELD, Putnam County

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

PERMIT NO.: WV0116254 MW02

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

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

| Parameter                                                 |               | Quantity |     |  | Other Units |                        |                          |                        | CEL * | Units   | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|------------------------|--------------------------|------------------------|-------|---------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |                        |                          |                        |       |         |      |                       |             |
| 00530 (ML-O) RF-C<br>Total Suspended Solids<br>Year Round | Reported      |          |     |  |             |                        |                          |                        |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |     |  |             |                        |                          |                        |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Inst. Min. | N/A                      | Rpt Only<br>Inst. Max. | N/A   | S.U.    |      | 1/6 months            | Grab        |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |     |  |             |                        |                          |                        |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |     |  |             |                        |                          |                        |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |     |  |             |                        |                          |                        |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l    |      | 1/6 months            | Grab        |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |                        |                          |                        |       |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill APPALACHIA

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

LOCATION OF FACILITY: WINFIELD; Putnam County

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

PERMIT NO.: WV0116254

MW02

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

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

| Parameter                                                       |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                 |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | DEG.F |      | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Name of Principal Executive Officer<br>_____<br>Title of Officer<br>_____ | 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<br>_____                                               |
|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signature of Principal Executive Officer or Authorized Agent<br>_____ |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW04  
 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<br>Total Suspended Solids<br>Year Round | Reported      |          |     |  |             |      |  |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |      |  |      | mg/l                  | 1/6 months  |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |     |  |             |      |  |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |      |  |      | \$U.                  | 1/6 months  |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |     |  |             |      |  |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |      |  |      | mg/l                  | 1/6 months  |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |     |  |             |      |  |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |      |  |      | mg/l                  | 1/6 months  |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |     |  |             |      |  |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |      |  |      | mg/l                  | 1/6 months  |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |      |  |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |      |  |      | UMHO/CM               | 1/6 months  |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                          |
| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                         |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW04  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                       |               | Quantity |     |  | Other Units |  |  | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-----|--|-------------|--|--|------|-------|------|-----------------------|-------------|
|                                                                 |               |          |     |  |             |  |  |      |       |      |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | DEG.F |      | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|
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| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA

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

LOCATION OF FACILITY: WINFIELD; Putnam County

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

PERMIT NO.: WV0116254MW06

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<br>Total Suspended Solids<br>Year Round | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                           | Permit Limits | N/A         | N/A  |  |  |      |       |      | 1/6 months            | Grab        |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                           | Permit Limits | N/A         | N/A  |  |  |      |       |      | 1/6 months            | Grab        |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                           | Permit Limits | N/A         | N/A  |  |  |      |       |      | 1/6 months            | Grab        |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                           | Permit Limits | N/A         | N/A  |  |  |      |       |      | 1/6 months            | Grab        |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                           | Permit Limits | N/A         | N/A  |  |  |      |       |      | 1/6 months            | Grab        |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |             |      |  |  |      |       |      |                       |             |
|                                                           | Permit Limits | N/A         | N/A  |  |  |      |       |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                         |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
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| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |                                                                                           |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                         |                                                                                           |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW06  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                       |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                 |               |          |     |  |             |                          |                        |      |       |      |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | DEG.F |      | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |     |  |             |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|
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| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW08  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                 |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units   | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|---------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |                          |                        |      |         |      |                       |             |
| 00530 (ML-O) RF-C<br>Total Suspended Solids<br>Year Round | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Inst. Min.   | Rpt Only<br>Inst. Max. | N/A  | S.U.    |      | 1/6 months            | Grab        |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | UMHO/GM |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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| Name of Principal Executive Officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Signature of Principal Executive Officer or Authorized Agent |                |
| Title of Officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |                |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW/08  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

## INDIVIDUAL PERFORMING ANALYSIS:

| Parameter                                                       |               | Quantity |     |  | Other Units |  |                          |                        | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-----|--|-------------|--|--------------------------|------------------------|------|-------|------|-----------------------|-------------|
|                                                                 |               |          |     |  |             |  |                          |                        |      |       |      |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | DEG.F |      | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |     |  |             |  |                          |                        |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                        |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|
| Name of Principal Executive Officer<br><br>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<br><br> |
|                                                             | Signature of Principal Executive Officer or Authorized Agent<br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                        |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (APPALACHIA) CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW09  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                 |               | Quantity |     |  | Other Units |                          |                        | CEL* | Units   | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|------|---------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |                          |                        |      |         |      |                       |             |
| 00530 (ML-O) RF-C<br>Total Suspended Solids<br>Year Round | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Inst. Min.   | Rpt Only<br>Inst. Max. | N/A  | S.U.    |      | 1/6 months            | Grab        |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | UMHO/CM |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------|
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| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |                               |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |

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

Permit Limits

FACILITY NAME: (Appalachian Power Company - John E. Amos Landfill) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW09  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                       |               | Quantity |     |  | Other Units |                          |                        | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-----|--|-------------|--------------------------|------------------------|-------|-------|------|-----------------------|-------------|
|                                                                 |               |          |     |  |             |                          |                        |       |       |      |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | DEG.F |      | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |
| 70286 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |     |  |             |                          |                        |       |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A   | mg/l  |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                           |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> | 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<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                    | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                           |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW10  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                 |               | Quantity |     |  | Other Units |  |  | CEL* | Units   | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|--|--|------|---------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |  |  |      |         |      |                       |             |
| 00530 (ML-O) RF-C<br>Total Suspended Solids<br>Year Round | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | S.U.    |      | 1/6 months            | Grab        |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |  |  |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | UMHO/CM |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIAN

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

LOCATION OF FACILITY: WINFIELD; Putnam County

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

PERMIT NO.: WV0116254

MW/10

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

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

| Parameter                                                       |               | Quantity |     | Units | N.E. | Other Units |                          |                        |  | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-----|-------|------|-------------|--------------------------|------------------------|--|------|-------|------|-----------------------|-------------|
|                                                                 |               |          |     |       |      |             |                          |                        |  |      |       |      |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |       |      |             |                          |                        |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |       |      |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |       |      |             |                          |                        |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |       |      |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily |  | N/A  | DEG.F |      | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |       |      |             |                          |                        |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |       |      |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |     |       |      |             |                          |                        |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |       |      |             | Rpt Only<br>Avg. Monthly | Rpt Only<br>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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW1801  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                 |               | Quantity |     |  | Other Units |                        |                          |                        | CEL* | Units   | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|------------------------|--------------------------|------------------------|------|---------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |                        |                          |                        |      |         |      |                       |             |
| 00530 (ML-O) RF-C<br>Total Suspended Solids<br>Year Round | Reported      |          |     |  |             |                        |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |     |  |             |                        |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             | Rpt Only<br>Inst. Min. | N/A                      | Rpt Only<br>Inst. Max  | N/A  | S.U.    |      | 1/6 months            | Grab        |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |     |  |             |                        |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |     |  |             |                        |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |     |  |             |                        |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | mg/l    |      | 1/6 months            | Grab        |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |                        |                          |                        |      |         |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |                        | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | N/A  | UMHO/CM |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                         |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 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<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Name of Principal Executive Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Signature of Principal Executive Officer or Authorized Agent<br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |                                                                                           |
| Title of Officer<br><div style="border: 1px solid black; height: 20px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                         |                                                                                           |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill (I) APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD; Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW1801  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                       |               | Quantity |     |  | Other Units |      |                          |                        |       | Measurement Frequency | Sample Type |                    |
|-----------------------------------------------------------------|---------------|----------|-----|--|-------------|------|--------------------------|------------------------|-------|-----------------------|-------------|--------------------|
|                                                                 |               |          |     |  | Units       | N.E. |                          |                        | CEL * |                       |             | Units              |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |  |             |      |                          |                        |       |                       |             |                    |
|                                                                 | Permit Limits | N/A      | N/A |  |             | N/A  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily |       | N/A                   | mg/l        | 1/6 months<br>Grab |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |  |             |      |                          |                        |       |                       |             |                    |
|                                                                 | Permit Limits | N/A      | N/A |  |             | N/A  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily |       | N/A                   | DEG.F       | 1/6 months<br>Grab |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |  |             |      |                          |                        |       |                       |             |                    |
|                                                                 | Permit Limits | N/A      | N/A |  |             | N/A  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily |       | N/A                   | mg/l        | 1/6 months<br>Grab |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |     |  |             |      |                          |                        |       |                       |             |                    |
|                                                                 | Permit Limits | N/A      | N/A |  |             | N/A  | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily |       | N/A                   | mg/l        | 1/6 months<br>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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW1802  
 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<br>Total Suspended Solids<br>Year Round | Reported      |          |       |      |                        |                          |       |         |                       |                    |
|                                                           | Permit Limits | N/A      | N/A   |      | N/A                    | Rpt Only<br>Avg. Monthly | N/A   | mg/l    |                       | 1/6 months<br>Grab |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |       |      |                        |                          |       |         |                       |                    |
|                                                           | Permit Limits | N/A      | N/A   |      | Rpt Only<br>Inst. Min. | N/A                      | N/A   | S.U.    |                       | 1/6 months<br>Grab |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |       |      |                        |                          |       |         |                       |                    |
|                                                           | Permit Limits | N/A      | N/A   |      | N/A                    | Rpt Only<br>Avg. Monthly | N/A   | mg/l    |                       | 1/6 months<br>Grab |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |       |      |                        |                          |       |         |                       |                    |
|                                                           | Permit Limits | N/A      | N/A   |      | N/A                    | Rpt Only<br>Avg. Monthly | N/A   | mg/l    |                       | 1/6 months<br>Grab |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |       |      |                        |                          |       |         |                       |                    |
|                                                           | Permit Limits | N/A      | N/A   |      | N/A                    | Rpt Only<br>Avg. Monthly | N/A   | mg/l    |                       | 1/6 months<br>Grab |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |       |      |                        |                          |       |         |                       |                    |
|                                                           | Permit Limits | N/A      | N/A   |      | N/A                    | Rpt Only<br>Avg. Monthly | N/A   | UMHO/CM |                       | 1/6 months<br>Grab |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|
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| Name of Principal Executive Officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Signature of Principal Executive Officer or Authorized Agent |
| Title of Officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                              |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW1802  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                       |               | Quantity |       |      | Other Units |                          |                        | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-------|------|-------------|--------------------------|------------------------|-----------------------|-------------|
|                                                                 |               |          | Units | N.E. |             |                          |                        |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |       |      |             |                          |                        |                       |             |
|                                                                 | Permit Limits | N/A      | N/A   |      | N/A         | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |       |      |             |                          |                        |                       |             |
|                                                                 | Permit Limits | N/A      | N/A   |      | N/A         | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |       |      |             |                          |                        |                       |             |
|                                                                 | Permit Limits | N/A      | N/A   |      | N/A         | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>Year Round | Reported      |          |       |      |             |                          |                        |                       |             |
|                                                                 | Permit Limits | N/A      | N/A   |      | N/A         | Rpt Only<br>Avg. Monthly | Rpt Only<br>Max. Daily | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|
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| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                             |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW7R  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

| Parameter                                                 |               | Quantity |     |  | Other Units |  |  | CEL * | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------|---------------|----------|-----|--|-------------|--|--|-------|-------|------|-----------------------|-------------|
|                                                           |               |          |     |  |             |  |  |       |       |      |                       |             |
| 00530 (ML-O) RF-C<br>Total Suspended Solids<br>Year Round | Reported      |          |     |  |             |  |  |       |       |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |       |       |      | 1/6 months            | Grab        |
| 00400 (ML-O) RF-C<br>pH<br>Year Round                     | Reported      |          |     |  |             |  |  |       |       |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |       |       |      | 1/6 months            | Grab        |
| 00940 (ML-O) RF-C<br>Chloride (as Cl)<br>Year Round       | Reported      |          |     |  |             |  |  |       |       |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |       |       |      | 1/6 months            | Grab        |
| 00951 (ML-O) RF-C<br>Fluoride, Total<br>Year Round        | Reported      |          |     |  |             |  |  |       |       |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |       |       |      | 1/6 months            | Grab        |
| 82057 (ML-O) RF-C<br>Boron, Total<br>Year Round           | Reported      |          |     |  |             |  |  |       |       |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |       |       |      | 1/6 months            | Grab        |
| 00095 (ML-O) RF-C<br>Specific Conductance<br>Year Round   | Reported      |          |     |  |             |  |  |       |       |      |                       |             |
|                                                           | Permit Limits | N/A      | N/A |  |             |  |  |       |       |      | 1/6 months            | Grab        |

\* CEL = Compliance Evaluation Level

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------|
| 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<br><div></div> |
| Name of Principal Executive Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Signature of Principal Executive Officer or Authorized Agent<br><div></div> |                               |
| Title of Officer<br><div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                               |

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

Permit Limits

FACILITY NAME: Appalachian Power Company - John E. Amos Landfill, APPALACHIA CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: WINFIELD, Putnam County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0116254 MW7R  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

## INDIVIDUAL PERFORMING ANALYSIS:

| Parameter                                                       |               | Quantity |     |  | Other Units |  |  | CEL* | Units | N.E. | Measurement Frequency | Sample Type |
|-----------------------------------------------------------------|---------------|----------|-----|--|-------------|--|--|------|-------|------|-----------------------|-------------|
|                                                                 |               |          |     |  |             |  |  |      |       |      |                       |             |
| 00916 (ML-O) RF-C<br>Calcium, Total (as Ca)<br>Year Round       | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 00011 (ML-O) RF-C<br>Temperature, F<br>Year Round               | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | DEG.F |      | 1/6 months            | Grab        |
| 81020 (ML-O) RF-C<br>Sulfate<br>Year Round                      | Reported      |          |     |  |             |  |  |      |       |      |                       |             |
|                                                                 | Permit Limits | N/A      | N/A |  |             |  |  | N/A  | mg/l  |      | 1/6 months            | Grab        |
| 70296 (ML-O) RF-C<br>Total Dissolved Solids (TDS)<br>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 |

**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.



1 Riverside Plaza  
Columbus, OH 43215  
aep.com

July 21, 2025

Director, Division of Water & Waste Management, DEP  
ATTN: Kenneth Wandling, Permitting Section  
Permitting & Engineering Branch  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345  
kenneth.wandling@wv.gov

**Re: Appalachian Power Company  
Amos Plant Landfill SW/NPDES Permit No. WV0116254  
Draft Permit Comments**

Dear Mr. Wandling,

On behalf of Appalachian Power Company (APCo), American Electric Power Service Corporation (AEP) hereby submits these comments on the Amos Plant Landfill (Landfill) draft SW/NPDES Permit No. WV0116254 that was available for public comment on June 5, 2025. The comments included in this letter provide additional information regarding requested changes to the final permit.

## **Part I**

### **TYPES OF SOLID WASTE AUTHORIZED, page 2**

- **Comment 1** - The draft permit does not include historical approved solid waste such as coal combustion residual material from not only Amos Plant, but also from Clinch River, Glen Lyn, Mountaineer, Sporn, and Kanawha River Plant (Appalachian Power Owned, with exception of Sporn). Additionally, Zeelan ash has been historically approved to be disposed of at the site. Zeelan takes ash from Amos plant for beneficial use. At times, a small portion of the rejected material may be returned to the landfill for final disposal. Please include CCR material such as fly ash, bottom ash, FGD, and FGD purge stream treatment solids from all these facilities in addition to what's already listed on page 2 "Type of Solid Waste Authorized." Additionally, we request the attached waste characterization for hydrated lime and unreacted trona be included in the approved solid wastes for the facility. SDS for these materials are included. Additionally, a liner compatibility test was performed by the PVC liner manufacturer and that is included also.

## Part I.I Permit Conditions:

### A. Responsibilities p.5-6:

9. Inspections – Construction, Installation, Site Renovation, Improvement, or Closure related activities requires a written notification to the Division of Water and Waste Management. APCo comments:
  - **Comment 2** - Such changes as permanent or final condition design changes should have written notice, but not to include general maintenance.

### B. Management Requirements

#### 1. Facility Activities

*b, page 7* – Daily Logs. Daily logs must be kept on days solid waste disposal occurs. These daily logs must be kept on file with the Operating Record and include the following: ...

- **Comment 3** – Daily logs are not required for solid waste disposal under 33 CSR 1B or 40 CFR 257 Subpart D “Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments” (federal CCR Rule). Additionally, 33 CSR 1 allows for Class F facilities (“any industrial solid waste disposal facility”) to receive a waiver to certain requirements, including subsection 4.12 which includes daily logs (33 CSR 1-5.5.a.2 and 33 CSR 1-4.12.a). We respectfully request this condition be removed on these basis.

*e.1, page 7-8* - Reporting and Record Keeping. An annual solid waste facility operations report must be submitted for the current calendar year to the Director before January 31 of the following year and must include the following information:...

- **Comment 4** – Annual solid waste facility operations reports are not required under 33 CSR 1B or the federal CCR Rule. These rules do require an annual groundwater monitoring and corrective action report (40 CFR 257.90.e) and annual engineering inspection report (40 CFR 257.84), though. Additionally, 33 CSR 1-5.5 allows for Class F facilities (“any industrial solid waste disposal facility”) to receive a waiver to certain requirements, including subsection 4.12 which includes annual operational report for solid waste facilities (33 CSR 1-5.5.a.2 and 33 CSR 1-4.12.g). Under these basis, we request to remove this condition from the permit and instead to include the annual report from 33 CSR 1B and the federal CCR Rule. If this requirement were to remain in the permit, condition e.1.a should be modified to remove the reference to the solid waste sequencing plan. There has not been a solid waste sequencing plan developed for this landfill due to previous waivers based on 33 CSR 1-5.5.a.1 and the ability to waive 33 CSR 1-3.10.c. Similarly, we request condition e.1.b of this permit be removed, as well (see **Comment 2**).

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**e.5, page 8** – The owner or operator of an active facility or a facility with a legacy CCR surface impoundment must conduct a facility evaluation to identify all CCR management units at the facility in accordance with paragraphs (c) through (e) of this section. At a minimum, the presence or absence of CCR management units at the facility must be confirmed and documented through a thorough evaluation of reasonably and readily available records that contain the information needed to prepare the Facility Evaluation Reports Part 1 and Part 2. The facility evaluation must also include a physical inspection of the facility. Where necessary, the physical inspection must include field investigation activities to fill data gaps, such as conducting exploratory soil borings, geophysical assessments, or any other similar physical investigation activities to establish the location and boundaries of potential or likely CCR management units, and to affirmatively rule out other areas of potential CCR placement at the facility that were identified during the information review or physical inspection. The facility evaluation must identify all CCR management units at the facility regardless of when the CCR management unit came into existence.

identified during the information review or physical inspection. The facility evaluation must identify all CCR management units at the facility regardless of when the CCR management unit came into existence.

- **Comment 5** - 33 CSR 1B incorporated the federal CCR Rule by reference, promulgated as of December 14, 2020, with some exclusions. The federal CCR Rule promulgated as of December 14, 2020, does not include the 'Legacy CCR' regulations and conditions. Because West Virginia has not received primacy for their CCR Rule program (33 CSR 1B) from the federal EPA, the Legacy CCR regulations still apply to this site, albeit they will be performed under the self-implementing aspect of the federal CCR Rule. Therefore, we request condition e.5 be removed from this permit. If this condition were to remain in the permit, because the federal EPA is reviewing the overall CCR Rule, there is potential that these requirements currently outlined in the federal CCR Rule could be modified. We request this condition be flexible based on any changes in the federal CCR Rule from the EPA. If this condition were to stay in the permit, we request the language mimic the language change to incorporate "no later than the date in the federal CCR Rule."

**e.6, page 8** – No later than Monday, February 9, 2026, the owner or operator of an active facility ... must prepare a Facility Evaluation Report Part 1....

- **Comment 6** – 33 CSR 1B incorporated the federal CCR Rule by reference, promulgated as of December 14, 2020, with some exclusions. The federal CCR Rule promulgated as of December 14, 2020, does not include the 'Legacy CCR' regulations and conditions. Because West Virginia has not received primacy for their CCR Rule program (33 CSR 1B) from the federal EPA, the Legacy CCR regulations still apply to this site, albeit they will be performed under the self-implementing aspect of the federal CCR Rule. Therefore, we request condition e.6 of this permit be removed. If this condition were to stay in the permit, because the federal EPA is reviewing the

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overall CCR Rule, there is potential that these deadlines currently outlined in the federal CCR Rule could be modified. We request this date be flexible based on any changes granted by the EPA.

*e.7, page 8-9* – No later than Monday, February 8, 2027, the owner or operator of an active facility... must prepare a facility evaluation report Part 2...

- **Comment 7** - 33 CSR 1B incorporated the federal CCR Rule by reference, promulgated as of December 14, 2020, with some exclusions. The federal CCR Rule promulgated as of December 14, 2020, does not include the 'Legacy CCR' regulations and conditions. Because West Virginia has not received primacy for their CCR Rule program (33 CSR 1B) from the federal EPA, the Legacy CCR regulations still apply to this site, albeit they will be performed under the self-implementing aspect of the federal CCR Rule. Therefore, we request condition e.7 of this permit be removed. If this condition were to stay in the permit, because the federal EPA is reviewing the overall CCR Rule, there is potential that these deadlines currently outlined in the federal CCR Rule could be modified. We request this date be flexible based on any changes granted by the EPA. If this condition were to stay in the permit, we request the language mimic the language change to incorporate "no later than the date in the federal CCR Rule."

*f, page 9* - Maintenance: Equipment and materials required for routine maintenance of facility structures, equipment, and other components shall be always available at this site. APCo comments:

- **Comment 8** - Some items may only available as rental equipment or are readily available for acquisition and should not be required to have on site at all times.

### 3. Solid Waste Limitations, page 10

- **Comment 9** - The draft permit does not include historical approved solid waste such as coal combustion residual material from not only Amos Plant, but also from Clinch River, Glen Lyn, Mountaineer, Sporn, and Kanawha River Plant (Appalachian Power Owned, with exception of Sporn). Additionally, Zeelan ash has been historically approved to be disposed of at the site. Zeelan takes ash from Amos plant for beneficial use. At times, a small portion of the rejected material may be returned to the landfill for final disposal. Please include CCR material such as fly ash, bottom ash, FGD, and FGD purge stream treatment solids from all these facilities in addition to what's already listed on page 2 "Type of Solid Waste Authorized." Additionally, we request the attached waste characterization for hydrated lime and unreacted trona be included in the approved solid wastes for the facility. Additionally, a liner compatibility test was performed by the PVC liner manufacturer and that is included also.

### 4. Waivers, page 10

- **Comment 10** – We request the following waivers to be included in this permit, as noted in 33 CSR 1-5.5.a.1:

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- 33 CSR 1-3.4; 3.7.f.7; 3.7.j; 3.7.k; 3.7.m; 3.8.c.1.C.4; 3.8.d.4.A; 3.10.a.6; 3.10.c; 3.13; 3.14; 3.16.d
- We request the following waivers to be included in this permit, as noted in 33 CSR 1-5.5.a.1.A:
  - 33 CSR 1-3.8.d.5; 3.8.i.1.B; 3.9; 3.10.a.1; 3.11.c; and gas monitoring and control provisions of -3.10.a.2; 3.10.a.4; 3.10.b.3
- We request the following waivers to be included in this permit, as noted in 33 CSR 1-5.5.a.2:
  - 33 CSR 1-4.4; 4.5.b.3.A.3; 4.5.c; 4.5.d; 4.5.g.7; 4.5.g.8; 4.5.g.9; 4.5.g.10; 4.6.b.1.B; 4.6.b.1.C; 4.6.b.2.A; 4.6.b.2.B; 4.6.b.2.D; 4.8.c.3.B; 4.10; 4.12; 4.13.b.3
- These waivers are being requested based on this facility being a coal combustion residual facility regulated by the state of West Virginia under 33 CSR 1B and by the self-implementing federal EPA under 40 CFR 257 Subpart D (federal CCR Rule). The requirements in these waiver conditions are either already required by the self-implementing federal CCR Rule or by the WVDEP adoption of the federal CCR Rule at 33 CSR 1B or they are not required at all.

**5. CCR Operating Record Requirements (33 CSR 1B, 40 CFR 257.8)**

- **Comment 11** – The reference to 40 CFR 257.8 is incorrect and should be revised to 40 CFR 257.80, as it relates to operating requirements under the ‘air’ provisions of the CCR Rule.

**C. Monitoring Requirements, page 11** The permittee shall submit all reports to Environmental Enforcement and to the Director of the Division of Water and Waste Management.

- **Comment 12** – reports have typically been submitted via the electronic submission system (ESS). Please confirm the ESS is the appropriate submission for required reports.

- 1. Groundwater, Leachate, and Surface Water Monitoring, page 11** – The permittee shall monitor all groundwater, leachate influent, and surface water monitoring points per Part II of this permit for the duration of the permit, including the closure and the post-closure periods.

Groundwater sampling frequencies shall be based on the calendar year and must be no less than one hundred twenty (120) days between sampling events unless specified more frequently in Part II. Surface Water and Groundwater Monitoring Reports shall be submitted within sixty (60) days of each compliance period unless specified more frequently in Part II.

- **Comment 13** – We request that the last sentence of this condition be removed based on Part II Section C.7 requiring discharge monitoring reports (DMR) be submitted no later than 25 days following the end of the semi-annual reporting period for groundwater monitoring. Removing the last sentence avoids confusion and potential contradictions.

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**E. Leachate Management**

**4, page 12** Upon completion of construction of the leachate storage facility...

- **Comment 14** – APCo requests changing this to “Upon completion of construction of a new facility...” Amos Landfill leachate collection system including storage facilities are established.

**F. Vector/Pest Control Plan, page 12** - The facility shall be operated in a manner that minimizes disease vector harborage and prevents unsightliness and odors. Animals, insects, and vectors shall be controlled by the application of suitable pesticide prior to placement of final cover materials. All pesticide use will be properly monitored and applied in conformance with Department of Agriculture guidelines

- **Comment 15** – Because this is a coal combustion residual landfill and there are no organic materials to be disposed at the landfill, there is not a need for pesticide to reduce vectors such as birds, rodents, insects, etc. We request this condition be removed.

## **PART I. II. SOLID WASTE DISPOSAL AREA(S)**

### **Cover Material Application**

**A. Daily/Intermediate Cover, page 13** – The permittee must cover the entire exposed solid waste disposal area at the end of each operating day, or at more frequent intervals, if necessary, to control dust as specified in the approved CCR fugitive dust plan.

- **Comment 16** – The PE certified CCR fugitive dust plan includes measures to control fugitive dust during ash handling and disposal at the landfill. These measures include but are not limited to reduced speed for vehicles on paved and unpaved roadways, street sweeping, water trucks, conditioning ash prior to transportation and also while at the landfill (note, conditioning means wetting to an appropriate amount to prevent dispersal but will not result in free liquids), compaction with dozer or roller, and reduced pile height. Due to these management actions, 33 CSR1B and federal CCR Rule not requiring daily/intermediate cover, and the waivers requested in comment 10 (specifically found at 33 CSR 1-5.5.a.2 and 33 CSR 1-4.6.b.2.A), we request the daily and intermediate cover requirement be removed from this permit.

### **Typical Liner System for Disposal Areas (33 CSR 1B, 40 CFR 257.70)**

**C. Lower Component, page 14** – The permittee shall construct and install a composite liner lower component of at least a two foot layer of compacted soil with a hydraulic conductivity of no more than  $1 \times 10^{-7}$  centimeters per second (cm/sec).

- **Comment 17** – 40 CFR 257.70(c) allows for an alternative composite liner system with several requirements, including demonstrating the alternative liner system can meet the lower component requirement of a liquid flow rate no greater than the liquid flow rate of two feet of compacted soil with a hydraulic

conductivity of no more than  $1 \times 10^{-7}$  cm/sec. This demonstration also must be certified from a qualified professional engineer. As part of the permit renewal/modification package submitted, this demonstration was included for an alternative liner system consisting of a geosynthetic clay liner (GCL) in lieu of two feet of soil and an upper component of a 60 mil LLDPE or 30 mil PVC geomembrane. The demonstration confirmed the GCL met or was less than the liquid flow rate of two feet of compacted soil with a hydraulic conductivity of  $1 \times 10^{-7}$ . This alternative liner demonstration package was also resubmitted via email to John Lockhart on February 12, 2025. Additionally, on page 3 of the draft permit there is a section under the heading **THE SOLID WASTE FACILITY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING\***: that includes plans, specifications, and reports which includes the November 17, 2023, submittal which included the alternative liner demonstration among other items requested. Additionally, this permit includes a section in **Part II** on page 24 that states, "The information submitted on and with Permit Application No. WV0116253 dated the 14<sup>th</sup> day of February 2022..... are all hereby made terms and conditions of the Permit with like effect as if all such permit application information were set forth herein and with other conditions set forth in Section A, B, C, D, and Appendix A." Therefore, we request that this alternative liner system be included in this permit condition as an allowable liner system for future development of landfill Sequence 5-9.

### **Part I.III WASTE SCREENING ACTIVITIES, PAGE 15-17**

- **Comment 18** – The wastes disposed of at the site are primarily coal combustion residuals (CCR), with additional small portion of associated power plant wastes. Waste characterization, load inspection, and associated sections of this part are not applicable to a CCR facility and are not required under 33 CSR 1 B or the federal CCR Rule. Therefore, we request this entire part be removed from the permit.

### **PART I.V CLOSURE OF DISPOSAL AREAS**

**A.6, page 18** – The following closure plan per 40 CFR 257.102(b) has been incorporated into this permit: N/A – no closure plans have been approved for this facility

- **Comment 19** – The original permit application in 2006 did include a closure plan. However, since the federal CCR Rule was promulgated in 2015, an update to the closure plan was incorporated into the December 2016 permit renewal submittal. This was incorporated into the permit that was issued on September 7, 2017, as noted in the cover letter narrative of that permit issued by the West Virginia DEP. Permit drawings most recently submitted with the 2022 renewal also include final cover design and update Quality Assurance / Quality Control plans. Additionally, there is a publicly available closure plan on the AEP CCR Rule Compliance

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public website for this facility that has been certified by a qualified professional engineer. We request these drawings and plans be incorporated into this condition.

**B.2, page 19-20 – Approved alternative cap systems**

- **Comment 20** – See above comment 19.

**C.8, page 21 – Vector/Pest Control Plan**

- **Comment 21** – see comment 15. We request this condition be removed from this permit.

**C.12 Termination, page 22 – Approved final closure dates for solid waste management areas**

- **Comment 22** – On 7/11/2018 a notice of intent to close a portion of the landfill was submitted to the Cabinet Secretary at the time, Austin Caperton, for the ‘Sequence 3’ closure. The QAQC for the closure of this area was submitted to the ESS on 9/4/2019. We request this be incorporated into this permit condition.

## **PART II**

### **Leachate and Storm Water Collection and Treatment Requirements**

**Outlet descriptions, p.24**

- **Comment 23** - Outlet 004 location’s planned/projected coordinates will be updated if changed when the outlet is in planning stages for construction.

**Section A, PDF page 26-47**

- **Comment 24** -
  - The Fact Sheet for the SW/NPDES Draft Permit provides no justification for the additional monitoring for parameters for Outlets 001, 002, 003, 004, 005, 006, and 007. If the added metals and inorganic parameters listed below are not removed, please provide justification for the additional parameters in the Fact Sheet.

- Added parameters:

Outlets 001, 002, 007

Arsenic  
Aluminum  
Selenium  
Magnesium  
Titanium

Outlets 003, 004, 005, 006

added parameters of 001, 002, 007 plus:  
Mercury  
Sulfate  
Iron  
COD

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- **Comment 25** -
  - Outlet 002 sampling timeframe:
    - Change Sulfate (Sum May 1-31 and Sep 1-30) to (Year Round)
    - Change Titanium (Winter Oct 1-Apr 30) to (Year Round)
  - Outlet 004 is not actively discharging as the areas that the stormwater pond this outlet would discharge from has not been built yet.

### C. Other Requirements

4. a., PDF page 67 - Stormwater sampling requirements are listed for 002 and 003, p. 44 of 52.

- **Comment 26** - Stormwater sampling requirements should apply to Outlets 005, 006, 007
  - Outlets 001, 002 and 003 have valves on their discharge structure and should not require a storm event as described in the current permit Section C.10.a when sampling, “All ponds equipped with valve devices, as such, Agency are requiring facility to take a sample and analyze pollutant listed on Section A when stormwater Outlets are discharging water into the water of the State”  
APCo requests that the facility would sample within a half hour of discharging stormwater from their respective ponds with discharge valves for Outlets 001, 002, and 003.

### 4.c. Stormwater requirements, PDF page 68:

- **Comment 27** - APCO requests to continue as detailed in the current permit in Section C. 10.b. “If the average concentration of a pollutant exceeds the corresponding benchmark concentration or pH values of all the samples are not within the range of 6.0 to 9.0 S.U., monitoring shall be continued, and a Stormwater Pollution Prevention Plan (SWPPP) shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the address....”
- **Comment 28** - AEP requests clarification if the last 4 sample results for stormwater collected under the previous permit can be used for the purpose of applying the low concentration waiver as outlined in Section C.4.c. of this permit.
- **Comment 29** – The parameter BOD5 is included in the Benchmark Concentration limits but is not required monitoring for any outlet or groundwater well in Section A. APCo requests BOD5 be removed from the Benchmark Concentration Table.

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- **Comment 30** – APCo requests the magnesium benchmark limit be changed to 82 mg/L ( $820 \times 0.1$  for 1/10 LC50) The magnesium benchmark limit based on the ECOTOX database was not derived in accordance with published methodology. Per the NPDES Toxicity Review<sup>1</sup> p.15:

“The EPA Region 3 Biological Technical Assistance Group recommends a screening limit of 82 mg/L. This limit is not specific to acute or chronic exposures but rather represents a value to provide consistency in screening level ecological risk assessments conducted in US EPA Region 3.

The (ECOTOX) concentration represents the minimum chronic toxicity value reported by Suter and Tsai (1996), which resulted in a 16% reduction in reproduction in daphnids exposed to magnesium chloride. This is a conservative endpoint based on minimal effect on reproduction, not an acute, lethal endpoint. Additionally, studies by others have observed acute aquatic toxicity of chloride, with LC50s for chloride reported as low as 244 mg/L (CCME 2011). Others found chloride toxicity can vary significantly, including depending on the salt and hardness of the solution. For example, magnesium chloride salts had toxic effects at concentrations ranging from 655 mg/L to 1579 mg/L chloride which suggests that toxicity in this study could be a result of chloride rather than magnesium exposure.

The Borgmann et.al. (2005) study cited in the toxicity review excluded the magnesium ion from their assessment of metals categorization of substances for the Canadian DSL under CEPA because it was considered of little toxicological interest. In the list of updates to ecological screening limits, the TCEQ removed limits for magnesium after reconsideration of previous values and a lack of scientific literature under the LC50 approach (TCEQ 2023).

Generally, an uncertainty factor ranging from 0.1 to 0.001 is applied when the endpoint derived from an acute exposure study is identified for the development of a chronic exposure guideline. Using this logic, a 10x factor may be reasonable to apply when a sensitive chronic endpoint ( $EC < 20$ ) is considered for the development of an acute screening limit for effluent water. This adjustment would result in an acute limit of 820 mg/L ( $82 \text{ mg} \times 10$ ) for magnesium in effluent water.”

The NPDES Toxicity Review is included with these comments for reference.

- **Comment 31** - The numbering in Section C after C.4 is incorrect. The number 4 is listed twice for two separate sections. All number from the second C.4 and on should be corrected.

**4. (the second 4.) PDF page 69,** Leachate storage facilities shall be capable of storing a volume equal to 30 days average of leachate flow.

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<sup>1</sup> Worley Consulting, American Electric Power Service Corporation NPDES Toxicity Review, pp. 15, 31; 30 August 2024

- **Comment 32** - The design and construction of the leachate storage ponds for the north and south valley of the landfill were approved by DEP in the 2006 permit. We request this condition be removed as the ponds are already constructed and this condition is only appropriately applied to new facilities.

**5, PDF page 69** - A normal operational level within the leachate pond will be maintained so as to allow a freeboard storage capacity equal to 10 days of the average leachate flow; this shall be clearly marked in the pond. If the level exceeds this normal operating level the operator shall notify the Director of the Div. of Water and Waste Management within 24 hours and inform of the actions taken to restore to operational level.

- **Comment 33** - APCo comments that the leachate holding basins were designed per WV Solid Waste Management Rule 33 CSR 1, 4.8.c.3.C. "A minimum of two (2) feet of freeboard must be maintained in all surface impoundments."

The base design parameters of 2-ft of freeboard above the 30-day volume for the Amos landfill leachate holding basins requires the maintenance of more capacity than the 10-day flow freeboard above normal operating pool condition proposed in this permit.

Also, Amos Landfill Leachate holding basins operate by an automated pumping system. Leachate from the North Valley pond is pumped to the South Valley leachate pond; the South Valley leachate pond is pumped to FGD Wastewater Treatment Plant's bioreactor and ultrafiltration systems. The automated pumping system is designed to maintain adequate freeboard levels while sending leachate for ultimate treatment and disposal offsite under the Amos Plant WV/NPDES Permit No. WV0001074. APCo requests the removal of this condition as it is unnecessary and creates operational confusion given the automated nature of the pumping system and the original design criteria that were previously approved by DEP.

**6, PDF page 69** - The permittee shall submit semi-annually...a Discharge Monitoring Report...

- **Comment 34** - APCo requests that the semiannual sampling period from November to April and May to October continue as it is scheduled in the current permit to maintain sampling consistency.

**7, PDF page 69** - The required DMRs should be received no later than 25 days following the end of the reporting period and be addressed to: Division of Water and Waste Management...and Environmental Enforcement...

- **Comment 35** - APCo requests that the required monitoring reports, and any reports or letters shall be submitted electronically to the WVDEP's electronic submission system in lieu of mailing to DEP physical addresses.

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**10, PDF page 69-70** - The landfill shall have and implement a seep management plan. This seep management plan shall contain at a minimum the following...

- **Comment 36** - APCo requests the plan requirement to be removed as the operator will follow the permit conditions for seep management, AEP has an internal maintenance system for tracking any seeps if they would occur.

#### **D. Groundwater monitoring**

##### **2.a, PDF page 73 – Detection Program, Phase I**

- **Comment 37** – the groundwater monitoring program is established with detection parameters set (Appendix III of the Federal CCR Rule) and assessment parameters set (Appendix IV of the Federal CCR Rule). When a detection parameter incurs an SSI that is not attributed to an alternate source, the unit/monitoring well moves into the assessment program. The parameter itself does not move into the assessment program. Therefore, we request this be reflected in this condition by changing “Upon moving a Detection parameter to an Assessment parameter...” to “Upon moving from the detection monitoring program to the assessment monitoring program...”

We appreciate the opportunity to provide these comments to the West Virginia Department of Environmental Protection (WVDEP) prior to issuance of the final SW/NPDES Permit.

If you have any questions or require further information regarding this submittal, please contact Christy Lawrence at (614) 716-2132 or via email at [clawrence@aep.com](mailto:clawrence@aep.com).

*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 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.*

Sincerely,



Aimee Toole  
Environmental Director

cc: J. Lockhart - WVDEP  
C. Cook/B. Guthrie/J. Moore - Amos  
B. Kepchar/H. Drake/C. Lawrence/D. Miller - AEP

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