

## ADDENDUM NO. 1

**TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI**

**Two Rocks Reclamation Project  
Henry County, Missouri  
PROJECT NO.: Y2302-01**

**Bid Opening Date: 1:30 PM, Tuesday, October 24, 2023 (Not Changed)**

**Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:**

### **SPECIFICATION CHANGES:**

1. Appendix 2 – NPDES Permit

**REPLACE** with Revised NPDES Permit (attached).

### **DRAWINGS CHANGES:**

1. None.

### **GENERAL COMMENTS:**

1. The Pre-Bid Meeting was held October 10, 2023 followed by an inspection of the project site. The Pre-Bid Meeting Sign-In Sheet is attached.
2. Bidders needing to perform a site inspection should contact DNR Land Reclamation staff Austin Rehagen, Jordan Mantle or Brent Willeford at: (573) 526-6980, (573) 751-6577 or (573) 751-0996, [Austin.Rehagen@dnr.mo.gov](mailto:Austin.Rehagen@dnr.mo.gov), [Jordan.Mantle@dnr.mo.gov](mailto:Jordan.Mantle@dnr.mo.gov), or [Brent.Willeford@dnr.mo.gov](mailto:Brent.Willeford@dnr.mo.gov) to schedule a time to enter the landowner(s) property.
3. Please contact Mandy Roberson, Contract Specialist, at (573) 522-0074, [Mandy.Roberson@oa.mo.gov](mailto:Mandy.Roberson@oa.mo.gov) for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.
4. The deadline for technical questions was October 16, 2023 at noon.
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
7. Current Planholders list is available online at: [Y2302-01 Two Rocks Reclamation Project :: Plan Holders :: State of Missouri Office of Administration \(oafmdcplanroom.com\)](https://oafmdcplanroom.com). Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, (573) 446-7768 to get plans and specifications.
8. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled. Failure to do so will result in rejection of the bid.**
9. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a**

**Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**

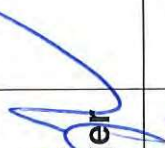
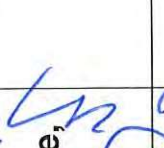
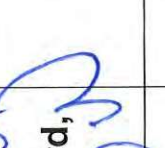
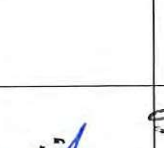
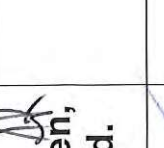

**ATTACHMENTS:**

1. Pre-Bid Meeting Sign-In Sheet
2. Revised NPDES Permit

**October 17, 2023**

**END ADDENDUM NO. 1**

**Pre-Bid Meeting Attendance Sheet**  
**DNR-Land Reclamation-Two Rocks Reclamation Project**  
**Intersection of SW 1151 Road and SW 550 Road in Henry County, Missouri**  
**38.291807, -93.970346**  
**Project No. Y2302-01**  
**10:00 AM, October 10, 2023**

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address
 Scott Zeller, Project Manager	OA-FMDC	-	573-751-2668 573-680-8138	<a href="mailto:Scott.Zeller@oa.mo.gov">Scott.Zeller@oa.mo.gov</a>
 Jordan Mantle, Designer	DNR-Land Reclamation	-	573-751-6577	<a href="mailto:Jordan.Mantle@dnr.mo.gov">Jordan.Mantle@dnr.mo.gov</a>
 Brent Willeford, Designer	DNR-Land Reclamation	-	573-368-2449	<a href="mailto:Brent.Willeford@dnr.mo.gov">Brent.Willeford@dnr.mo.gov</a>
 Mike Mueller, Supervisor	DNR-Land Reclamation	-	573-526-5887	<a href="mailto:Mike.Mueller@dnr.mo.gov">Mike.Mueller@dnr.mo.gov</a>
 Austin Rehagen, Project Coord.	DNR-Land Reclamation	-	573-526-6980 573-694-4103	<a href="mailto:Austin.Rehagen@dnr.mo.gov">Austin.Rehagen@dnr.mo.gov</a>
 Mandy Roberson, Contract Specialist	OA-FMDC	-	573-522-0074	<a href="mailto:Mandy.Roberson@oa.mo.gov">Mandy.Roberson@oa.mo.gov</a>

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**10:00 AM, October 10, 2023**

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address
Daniel Wedemeyer	LRP		573-751-8869	daniel.wedemeyer@dnr.mo.gov
DAVID NATION	NATION WIDE MINING		785-207 2571	NATIONWIDEMINING@gmail.com
Grayson Peniston	S & A Equipment & Builders		573 544 8749	Admin @ SA Equipment Builders .com
<del>Carl Jones</del> Carl Jones President	Carl R. Jones > excavating & hauling	SDVE	573-783 5301	Jonnie @ carl Jones excavating LLC.com
Robert Jones Supervisor <del>Jones family</del> SUPPLIES	Jones family SUPPLIES	WBE	573-783 5301	carl @ carl Jones excavating LLC.com

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Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address
Larry Walters owner	WALKER INC CONTRACTING		417-321-1906	EXC FARMS@yahoo
Randy Eberley	CE Earthworks		417-452-4376	Eberleylandservice@yahoo.com
Tim Bradford	C-4 Equipment Rental & Sales		417-850-8137	Timbradford@CEtequipmentrental.com
Calk Seymour	Calk Seymour earth hinc		660-909-7492	Calk.Seymour@gmail.com
Nick Brumbaugh	Binder Irrigation		712 310 6820 402 310 6820	nickbrumbaugh@yahoo.com

**Pre-Bid Meeting Attendance Sheet**  
**DNR-Land Reclamation-Two Rocks Reclamation Project**  
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**38.291807, -93.970346**  
**Project No. Y2302-01**  
**10:00 AM, October 10, 2023**

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address
Lora Hiers Owner Partner	Special Enterprises Ltd		417-719-9090	SpecialEnterprisesLtd@gmail.com
Jim Hiers VIP	Special Enterprises		417-719-9090	SpecialEnterprisesLtd@gmail.com
Gerald Moore supintendent	Thomas Const. Inc		620-547-2475	
Megan Moore Project coordinator	DNR - Land Rec		573-908-7303	megan.moore@dnr.mo.gov
Alicia Feinauer PROJECT COORDINATOR	DNR - LAND REC			Alicia.Feinauer@dnr.mo.gov

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
MISSOURI CLEAN WATER COMMISSION



## MISSOURI STATE OPERATING PERMIT

### General Operating Permit

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No: MOG050092

Owner: MoDNR Land Reclamation Program  
Address: 548 SW 1151 Rd.  
MONTROSE, MO 64770

Continuing Authority: MoDNR Land Reclamation Program  
548 SW 1151 Rd.  
MONTROSE, MO 64770

Facility Name: Two Rocks Reclamation Project  
Facility Address: 548 SW 1151 Rd.  
MONTROSE, MO 64770

Legal Description: Sec. 01, T40N, R28W, Henry County  
UTM Coordinates: 414530.526/4238354.720  
Receiving Stream: Tributary to Montrose Lake  
First Classified Stream - ID#: Presumed Use Streams (C) 303(d) 5058.00  
USGS# and Sub Watershed#: 10290108 - 0603

is authorized to discharge from the facility described herein, in accordance with the effluent limitations, benchmarks, and monitoring requirements as set forth herein.

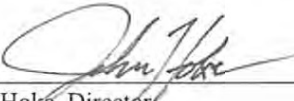
### FACILITY DESCRIPTION All Outfalls SIC #9512

All Outfalls - This Missouri State Operating Permit (permit) authorizes the discharge of stormwater, impoundment water and mine dewatering to waters of the state of Missouri from reclamation sites under the control of the Missouri Department of Natural Resources, Land Reclamation Program, including but not limited to the following primary SIC Codes: 1629, 9512

This permit authorizes activities pursuant to the terms and conditions of this permit in the Missouri Clean Water Law and/or the National Pollutant Discharge Elimination System; it does not apply to other regulated activities.

October 01, 2023

Issue Date

  
John Hoke, Director  
Water Protection Program

October 31, 2026

Expiration Date

## DEFINITIONS

The terms defined in this section are used throughout the permit. Any use of these terms in the permit meet the definition established here, unless otherwise noted.

*Abandoned mine* – A mine where mining operations have occurred in the past and the applicable reclamation bond or financial assurance has been released or forfeited, or, if no reclamation bond or other financial assurance has been posted, no mining operations have occurred for five years or more.

*Acid mine drainage* – Mine drainage which, before any treatment, either has a pH of less than 6.0 or a total iron concentration equal to or greater than 10 mg/L. Acid mine drainage is not authorized for discharge without treatment under this permit.

*Active mining area* – The area, on and beneath land, used or disturbed in activity related to the extraction, removal, or recovery of coal from its natural deposits. This term excludes coal preparation plants, coal preparation plant associated areas, and post-mining areas.

*Alkaline mine drainage* – Mine drainage which, before any treatment, has a pH equal to or greater than 6.0 and a total iron concentration of less than 10 mg/L.

*Bond release* – The time at which the appropriate regulatory authority returns a reclamation or performance bond based upon determination that reclamation work (including, in the case of underground mines, mine sealing and abandonment procedures) has been satisfactorily completed.

*Coal preparation plant* – A facility where coal is subjected to cleaning, concentrating, or other processing or preparation in order to separate coal from impurities and then is loaded for transit to a consuming facility.

*Coal preparation plant associated areas* – Coal preparation plant yards, immediate access roads, coal refuse piles, and coal storage piles and facilities.

*Mine drainage* – Any drainage, and any water pumped or siphoned, from an active mining area or post-mining area.

*Post mining area* – A reclamation area or the underground workings of an underground coal mine after the extraction, removal, or recovery of coal from its natural deposit has ceased and prior to bond release.

*Reclamation area* – The surface area of a coal mine which is being returned to required contour and on which revegetation (specifically, seeding or planting) work will or has commenced.

## APPLICABILITY

1. This Missouri State Operating Permit (permit) authorizes the discharge of stormwater, impoundment water, and mine dewatering effluent directly or overland flow to waters of the State of Missouri from reclamation sites under the control of the Missouri Department of Natural Resources Land Reclamation Program. These sites are assigned the SIC Codes #9512 and #1629.
2. Acid mine drainage (as defined above) is not authorized under this permit for discharge without treatment for protection of the general narrative criteria found pursuant to 10 CSR 20-7.031(4). The chosen treatment shall be sufficient to comply with all narrative criteria, including color, as well as comply in-stream with all applicable numeric criteria found in 10 CSR 20-7.031 Tables A1 through B.
3. This permit does not apply to active mining sites, coal preparation plants, coal preparation plant associated areas, or any of the discharges related to these sites. This permit applies only to post-mining activities at sites abandoned within or prior to 1977 and not subject to the Regulatory Program of the Surface Mining Control and Reclamation Act of 1977 identified as mine land reclamation and the associated construction projects under the control of the Missouri Department of Natural Resources Land Reclamation Program or assigns. Active mining and coal preparation sites have differing effluent discharges; these conditions were not considered in the development of this general permit.
4. This permit does not cover construction of earthen basins used for wastewater management. Construction of an earthen basin or holding structure may require a construction permit. Instructions on how to obtain a construction permit are located at <https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater/construction-engineering> . Questions regarding permit requirements may be directed to Department's Water Protection Program phone line at 573-751-1300, or toll free at 800-361-4827.



APPLICABILITY, CONTINUED

5. This permit authorizes only stormwater to be discharged in Metropolitan No-Discharge watersheds. This permit does not authorize the discharge of impoundment water or mine dewatering effluent to be released in these watersheds. Discharge to the watersheds of a Metropolitan No-Discharge Stream (10 CSR 20-7.031 Table F) is prohibited except uncontaminated cooling water, non-contaminated stormwater flows, permitted stormwater discharges in compliance with permit conditions, and excess wet-weather bypass discharges not interfering with beneficial uses per 10 CSR 20-7.015(5) and 7.031(7). Existing interim discharges of wastewater may be allowed until interceptors are available within 2,000 feet or a distance deemed feasible by the Department, or unless construction of outfalls to alternative receiving waters not listed in Table F is deemed feasible by the Department. Only (a), (c), (e), and (f) from “allowable non-stormwater discharges” found in Applicability Condition #16 below are authorized for discharge to Metropolitan No-Discharge Streams. The other types of non-stormwater discharges are not authorized for discharge to Metropolitan No-Discharge watersheds.
6. This permit does not authorize discharges which are located in a way to allow water to be released into sinkholes, caves, fissures, or other openings in the ground which could drain into aquifers directly or indirectly (except losing streams) per 10 CSR 20-7.015(7).
7. This permit does not authorize the discharge of industrial or domestic wastewater into the watersheds of lakes and reservoirs designated as L1 in 10 CSR 20-7.031, per 10 CSR 20-7.015(3)(C). Stormwater only discharges are authorized in these watersheds so long as no degradation of water quality occurs.
8. For facilities which would discharge directly to Outstanding State Resource Waters:
  - (a) Outstanding State Resource Waters are protected against any degradation in quality as defined in 10 CSR 20-7.015(6)(B) and 7.031(3)(C).
  - (b) This permit does not authorize wastewater discharge to Outstanding State Resource Waters.
  - (c) This permit authorizes stormwater discharge facilities to operate and continue to discharge only stormwater in Outstanding State Resource Watersheds so long as no degradation of water quality occurs.
9. For facilities operating within the watershed of Outstanding National Resource Water, which includes the Ozark National Riverways and the National Wild and Scenic Rivers System:
  - (a) This permit authorizes only no-discharge facilities [as defined in 10 CSR 20-6.015(1)(B)7.] to operate.
  - (b) Any discharge from a no-discharge facility, including stormwater, will be considered a violation of this permit unless a catastrophic or chronic storm event [as defined in 10 CSR 20-6.015(1)(B)2.-3.] occurs. In the event of a catastrophic or chronic storm event, the no-discharge facility is authorized to release only the amount of stormwater required to prevent damage to the facility or established Best Management Practices (BMPs).
10. Facilities located within the watershed of an impaired water as designated in the 305(b) Report must be evaluated on a case-by-case basis for inclusion under this permit. Facilities found to be discharging the listed pollutant(s) of concern for any impaired water may be required to obtain a site-specific permit. However, the remediation aspect of the reclamation work will be taken into consideration, as many mine reclamation projects occur on stream segments impacted by mining activities, and reclamation projects are expected to improve water quality in receiving streams after completion.
11. This permit does not allow stream channel or wetland alterations unless approved by Section 404 of the federal Clean Water Act (CWA) permitting authorities.
12. This permit does not authorize the placement of fill materials in flood plains, placement of solid materials into any waterway, the obstruction of stream flow, or changing the channel of a defined drainage course.
13. The Department may require any facility authorized by a general permit to apply for a site-specific permit [10 CSR 20-6.010(13)(C)]. Cases where a site-specific permit may be required include, but are not limited to, the following:
  - (a) The discharge(s) is a significant contributor of a pollutant(s) which impairs the beneficial uses of the receiving stream;
  - (b) The discharger is not in compliance with the conditions of the general permit;
  - (c) A Total Maximum Daily Load (TMDL) containing requirements applicable to the discharge(s) is approved.
14. If a facility covered under a current general permit desires to apply for a site-specific permit, the facility may do so by contacting the Department for application requirements and procedures.
15. Facilities covered under a current site-specific permit who desire to apply for inclusion under this general permit may contact the Department for application requirements and procedures.

APPLICABILITY, CONTINUED

16. The following are additional allowable non-stormwater discharges authorized under this permit:
- (a) Discharges from fire-fighting activities;
  - (b) Fire hydrant flushing (testing);
  - (c) Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
  - (d) Landscape watering, provided all pesticides, herbicides, and fertilizers have been applied in accordance with manufacturer's instructions;
  - (e) Uncontaminated ground water or spring water which has not contacted industrial materials, wastewater, or processes; and
  - (f) Foundation or footing drains where flows are not contaminated with process materials or wastewater.
17. Any non-stormwater discharges other than those explicitly authorized in condition #16 above or explicitly included for permit coverage are prohibited. For clarity, a number of prohibited discharges will be listed here as a reminder. These discharges were not considered when developing the limitations of the permit and are thus prohibited. The list is not all inclusive, but contains common prohibited discharges:
- (a) Water from washout of concrete;
  - (b) Water from the washing of vehicles and equipment, with or without detergents;
  - (c) Potable water treated with chlorine;
  - (d) Water from the washout of form release oils, curing compounds, or other construction materials;
  - (e) Water containing soaps, solvents, or detergents from any source; and
  - (f) Water containing substances from a spill on site, hazardous or otherwise.
18. This permit authorizes the operation of oil water separators solely for the treatment of stormwater. The oil water separators must be appropriately operated and sized per manufacturer's or engineering specifications. Oil water separators used to treat wastewater (including drips, spills, shop floor drains, pavement wash water, etc.) must be authorized under permit MO-G14 for oil water separator discharges or a site-specific permit authorizing all industrial activities at the site. This permit authorizes only the discharge of stormwater treated by an oil water separator (precipitation that has fallen on the site and is discharged through the oil water separator). The facility must maintain oil water separator sludge removal records for a period of at least five years and provide them to the Department if requested. Sludge from the oil water separator is considered used oil per 10 CSR 25-11.279 and must be disposed of accordingly.
19. Spills, Overflows, and Other Unauthorized Discharges.
- (a) Any spill, overflow, or other discharge(s) not specifically authorized in this permit are unauthorized discharges.
  - (b) Should an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
  - (c) If the unauthorized discharge was from an overflow from a no-discharge wastewater basin, the report must include all records confirming operation and maintenance records documenting proper maintenance in accordance with condition (d) below.
  - (d) Permittee shall adhere to the following minimum BMPs for no-discharge wastewater holding structures:
    - (1) To prevent unauthorized discharges, the no-discharge wastewater basin must be properly operated and maintained to contain all wastewater plus run-in and direct precipitation. During normal weather conditions, the liquid level in the storage structure shall be maintained below the upper operating level, so adequate storage capacity is available for use during adverse weather periods. The liquid level in the storage structure should be lowered on a routine schedule based on the design storage period. Typically this should be accomplished prior to expected seasonal wet and winter climate periods. Maintain liquid level in the no-discharge wastewater structure at least 2.0 feet from the bottom of the discharge pipe, top of the basin, or the bottom of the overflow canal, whichever is lower.
    - (2) Weekly inspection of no-discharge wastewater basins shall occur. Inspection notes will be kept at the facility and made available to the Department upon request.
    - (3) The inspections will note any issues with the no-discharge structure and will record the level of liquid as indicated by the depth marker.

EXEMPTION

Facilities discharging all effluent (stormwater, mine dewatering, and wastewater) directly to a combined sewer system (as defined in 40 CFR 122.26 and 40 CFR 35.2005) connecting to a publicly owned treatment works which has consented to receive such a discharge are exempt from permit requirements.

**EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

<b>TABLE A1</b>		<b>COAL MINE RECLAMATION ACTIVITIES INTERIM LIMITS FOR EXISTING FACILITIES AT RENEWAL ONLY</b>				
The facility is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limits shall become effective upon issuance and are effective until December 31, 2024. The final effluent limitations in Table A2 shall become effective on January 1, 2025, and remain in effect until expiration of the permit. All discharges shall be controlled, limited, and monitored by the facility as specified below:						
EFFLUENT PARAMETERS	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS ***	
		DAILY MAXIMUM		BENCHMARK	SAMPLING FREQUENCY	SAMPLE TYPE
<b>STORMWATER ASSOCIATED WITH COAL MINE LAND DISTURBANCE</b>						
<b>OUTFALL: MGP PF FEATURE/LIMIT SET DESIGNATOR: 01A/SW</b>						
Flow	MGD	*		-	once/quarter ◊	24 hr estimate
Chloride	mg/L	*		-	once/quarter ◊	grab
Chloride + Sulfate	mg/L	**		1,000	once/quarter ◊	grab
Iron, Total Recoverable	µg/L	**		7,000	once/quarter ◊	grab
pH †	SU	6.0-9.0		-	once/quarter ◊	grab
Settleable Solids	mL/L/hr	**		1.5	once/quarter ◊	grab
Sulfate	mg/L	*		-	once/quarter ◊	grab
Total Suspended Solids	mg/L	**		100	once/quarter ◊	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> VIA THE DEPARTMENT'S eDMR SYSTEM. THE FIRST REPORT IS DUE <u>JANUARY 28, 2024</u> . IT IS A VIOLATION OF THIS PERMIT TO FAIL TO SAMPLE. THE DISCHARGE SHALL NOT CONTAIN FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>DISCHARGES FROM COAL MINE SHAFT PUMPING, COAL MINE DRAINING, AND PROCESSING AREA IMPOUNDMENT DRAINING</b>						
<b>OUTFALL: MGP PF FEATURE/LIMIT SET DESIGNATOR: 01B OR 01C ††/01B:MS, 01C:PI</b>						
EFFLUENT PARAMETERS	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS***	
		DAILY MAXIMUM		MONTHLY AVERAGE	SAMPLING FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	††	24 hr estimate
Chloride	mg/L	*		*	††	grab
Chloride + Sulfate	mg/L	*		*	††	grab
Iron, Total Recoverable	µg/L	7,000		3,500	††	grab
Manganese, Total Recoverable ‡	µg/L	4,000		2,000	††	grab
pH †	SU	6.0-9.0		-	††	grab
Settleable Solids	mL/L/hr	1.5		1.0	††	grab
Specific Conductance	µmhos/cm	*		*	††	grab
Sulfate	mg/L	*		*	††	grab
Total Suspended Solids	mg/L	100		50	††	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> VIA THE DEPARTMENT'S eDMR SYSTEM. THE FIRST REPORT IS DUE <u>N/A</u> . IT IS A VIOLATION OF THIS PERMIT TO FAIL TO SAMPLE. THE DISCHARGE SHALL NOT CONTAIN FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

TABLE A2		COAL MINE RECLAMATION ACTIVITIES FINAL LIMITS FOR ALL NEW FACILITIES AND FOR ALL EXISTING FACILITIES AFTER DECEMBER 1 <sup>ST</sup> , 2024				
		The facility is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance for new facilities; and January 1, 2025, for existing facilities; and remain in effect until expiration of the permit. All discharges shall be controlled, limited, and monitored by the facility as specified below:				
EFFLUENT PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS ***	
		DAILY MAXIMUM		BENCHMARK	SAMPLING FREQUENCY	SAMPLE TYPE
<b>STORMWATER ASSOCIATED WITH COAL MINE LAND DISTURBANCE</b>						
<b>OUTFALL: MGP PF FEATURE/LIMIT SET: 01A</b>						
Flow	MGD	*		-	once/quarter ◊	24 hr estimate
Chloride	mg/L	*		-	once/quarter ◊	grab
Chloride + Sulfate	mg/L	**		1,000	once/quarter ◊	grab
Iron, Total Recoverable	µg/L	**		7,000	once/quarter ◊	grab
pH †	SU	6.0-9.0		-	once/quarter ◊	grab
Settleable Solids	mL/L/hr	**		1.5	once/quarter ◊	grab
Sulfate	mg/L	*		-	once/quarter ◊	grab
Total Suspended Solids	mg/L	**		100	once/quarter ◊	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> VIA THE DEPARTMENT'S eDMR SYSTEM. THE FIRST REPORT IS DUE <u>N/A</u> . IT IS A VIOLATION OF THIS PERMIT TO FAIL TO SAMPLE. THE DISCHARGE SHALL NOT CONTAIN FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>DISCHARGES FROM COAL MINE SHAFT PUMPING, COAL MINE DRAINING, AND PROCESSING AREA IMPOUNDMENT DRAINING</b>						
<b>OUTFALL: MGP PF NUMBER/ LIMIT SET DESIGNATOR: 1BN OR 1CN ††/1BN:MS, 1CN:PI</b>						
EFFLUENT PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS ***	
		DAILY MAXIMUM		MONTHLY AVERAGE	SAMPLING FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	‡‡	24 hr estimate
Chloride	mg/L	*		*	‡‡	grab
Chloride + Sulfate	mg/L	1000		*	‡‡	grab
Iron, Total Recoverable	µg/L	7,000		1,000	‡‡	grab
Manganese, Total Recoverable ‡	µg/L	4,000		2,000	‡‡	grab
pH †	SU	6.5-9.0		-	‡‡	grab
Settleable Solids	mL/L/hr	1.5		1.0	‡‡	grab
Specific Conductance	µmhos/cm	*		*	‡‡	grab
Sulfate	mg/L	*		*	‡‡	grab
Total Suspended Solids	mg/L	100		50	‡‡	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> VIA THE DEPARTMENT'S eDMR SYSTEM. THE FIRST REPORT IS DUE <u>N/A</u> . IT IS A VIOLATION OF THIS PERMIT TO FAIL TO SAMPLE. THE DISCHARGE SHALL NOT CONTAIN FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

See table notes on page 8

TABLE B		METALLIC MINERAL RECLAMATION ACTIVITIES FOR ALL FACILITIES				
The facility is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. All discharges shall be controlled, limited, and monitored by the facility as specified below:						
EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS ***	
		DAILY MAXIMUM		BENCHMARK	SAMPLING FREQUENCY	SAMPLE TYPE
<b>STORMWATER ASSOCIATED WITH METALLIC MINERAL LAND DISTURBANCE</b>						
<b>OUTFALL: MGP PF NUMBER/ LIMIT SET DESIGNATOR: 01D/SW</b>						
Flow	MGD	*		-	once/month	24 hr estimate
Cadmium, Total Recoverable	µg/L	**		9	once/month	grab
Chloride	mg/L	*		-	once/month	grab
Chloride + Sulfate	mg/L	**		1,000	once/month	grab
Cobalt, Total Recoverable	µg/l	*		-	once/month	grab
Copper, Total Recoverable	µg/l	*		-	once/month	grab
Iron, Total Recoverable	µg/L	**		7,000	once/month	grab
Lead, Total Recoverable	µg/L	**		160	once/month	grab
Mercury, Total Recoverable	µg/l	*		-	once/month	grab
pH †	SU	6.5-9.0		-	once/month	grab
Settleable Solids	mL/L/hr	**		1.5	once/month	grab
Specific Conductance	µmhos/cm	*		-	once/month	grab
Sulfate	mg/L	*		-	once/month	grab
Total Suspended Solids	mg/L	**		100	once/month	grab
Zinc, Total Recoverable	µg/L	**		180	once/month	grab
REPORTS SHALL BE SUBMITTED MONTHLY VIA THE DEPARTMENT'S eDMR SYSTEM. THE FIRST REPORT IS DUE N/A.						
<b>METALLIC MINERAL MINE SHAFT PUMPING, MINE DRAINING, AND PROCESSING AREA IMPOUNDMENT DRAINING</b>						
<b>OUTFALL: MGP PF NUMBER/ LIMIT SET: 01E/WW</b>						
EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS***	
		DAILY MAXIMUM		MONTHLY AVERAGE	SAMPLING FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	‡‡	24 hr estimate
Cadmium, Total Recoverable	µg/L	9		1	‡‡	grab
Chloride	mg/L	*		*	‡‡	grab
Chloride + Sulfate	mg/L	*		*	‡‡	grab
Cobalt, Total Recoverable	µg/l	*		*	‡‡	grab
Copper, Total Recoverable	µg/l	23		15	‡‡	grab
Iron, Total Recoverable	µg/l	7,000		1,000	‡‡	grab
Lead, Total Recoverable	µg/l	160		6	‡‡	grab
Mercury, Total Recoverable	µg/l	*		*	‡‡	grab
pH †	SU	6.5-9.0		-	‡‡	grab
Settleable Solids	mL/L/hr	1.5		1.0	‡‡	grab
Specific Conductance	µmhos/cm	*		*	‡‡	grab
Sulfate	mg/L	*		*	‡‡	grab
Total Suspended Solids	mg/L	100		50	‡‡	grab
Zinc, Total Recoverable	µg/l	188		187	‡‡	grab
REPORTS SHALL BE SUBMITTED MONTHLY VIA THE DEPARTMENT'S eDMR SYSTEM. THE FIRST REPORT IS DUE N/A.						

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, CONTINUED

Table Notes:

- \* Monitoring requirement only.
- \*\* Monitoring and reporting associated with benchmark. See STORMWATER REQUIREMENTS for additional requirements.
- \*\*\* If a discharge occurs during the reporting period, samples shall be collected and tested for the required parameters listed in Table A. Report as no-discharge when a discharge does not occur during the reporting period. If multiple samples are collected and analyzed during the sampling period, the multiple samples are not to be averaged at intervals exceeding one calendar month. The permittee may report 'No-Discharge' if all reasonable attempts to collect a sample throughout the reporting period have resulted in the inability to collect an effluent sample.
- † pH is measured in standard units (SU) and is not to be averaged.
- †† Permitted Feature 01B/1BN added for discharge from mine shaft pumping. Permitted feature 01C/1CN added for coal mine and processing area impoundment draining. 01B/01C for existing facilities at renewal; 1BN/1CN added for new facilities. Permitted feature 01B/01C will have the schedule of compliance included.
- ‡ The effluent shall be tested prior to discharge for pH and iron to determine if it meets the definition of "acid mine drainage." (see definitions in permit above.) Monitoring and limitations for manganese are required only when the drainage is classified as "acid mine drainage". If it does not meet the definition of acid mine drainage, "conditional monitoring not required this period" may be reported for this parameter. The NODI code for this in eDMR is AG.
- ‡‡ Monitoring is required once/month during discharge of the impoundment, with once/day monitoring required when the total depth of the impoundment or shaft surface water reaches 1 foot or less. The first reported monthly sample shall be a dip sample taken from the impoundment prior to discharging for the first time. In the case of both abandoned coal mine and metallic mineral shafts, if the impoundment is less than 150 feet in length, one grab sample from the midpoint is an adequate sample. If the impoundment is longer than 150 feet, three grab samples shall be taken, one near each end and one near the midpoint. All discharges from the impoundment must not exceed pre-project instream water quality monitoring results. If the pre-project water quality or impoundment monitoring results indicate pollutants at levels above the limits in this permit, the facility should contact the Water Protection Program to discuss next steps for discharging, including possible alternative limits. Alternative limits shall not, in any case, cause general narrative water quality standard excursions. eDMR will accept only one value per parameter when entering data. All additional monthly or daily data shall be uploaded as an attachment to the monthly report. The daily monitoring requirement does not apply to temporary impoundments created by reclamation contractors.

◇ Quarterly sampling

MINIMUM QUARTERLY SAMPLING REQUIREMENTS			
QUARTER	MONTHS	QUARTERLY EFFLUENT PARAMETERS	REPORT IS DUE
First	January, February, March	Sample at least once during any month of the quarter	April 28 <sup>th</sup>
Second	April, May, June	Sample at least once during any month of the quarter	July 28 <sup>th</sup>
Third	July, August, September	Sample at least once during any month of the quarter	October 28 <sup>th</sup>
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28 <sup>th</sup>

SCHEDULE OF COMPLIANCE

Schedules of compliance are allowed per 40 CFR 122.47 and 10 CSR 20-7.031(11). Existing coal mine reclamation facilities (renewal permits only, not applicable to new permits or new facilities) shall attain compliance with final effluent limitations established in this permit for chlorides plus sulfates, monthly average iron, and pH in coal mining impoundment and processing area draining effluent as soon as reasonably achievable, with final limitations becoming effective after three (3) years, on August 1<sup>st</sup>, 2024.

### PRE-PROJECT AND POST-PROJECT SAMPLING REQUIREMENTS

If land disturbance of more than one acre or impoundment draining is to occur in a project, pre- and post-project receiving stream sampling is required to document water quality using the following guidelines:

1. Pre- and post-project sampling is not done at the outfalls of the project site. The samples required under this section are done at specific in-stream monitoring locations to document water quality of the receiving streams before and after project completion. Pre-project sampling shall be submitted with the application for discharge. Post-project sampling shall be submitted with the application for termination.
2. The following receiving stream locations must be sampled unless alternate arrangements are approved by the Water Protection Program:
  - (a) The first stream, including those that are unclassified, downstream of all drainage from the project site if there is flowing water.
  - (b) If the sample required in (a) was not a classified stream with designated uses, a sample shall also be taken at the first classified stream, downstream of all drainage from the project site. This sampling point should be at least one-half (1/2) mile below the project, but before the classified stream to be sampled flows into another stream. If the stream flows into another stream before one-half mile, sample prior to the stream confluence.
  - (c) If the project flows into more than one classified stream, all classified streams receiving flow from the site must be sampled unless the area draining to the classified stream is less than five acres and contains no gob pile, slurry ponds, or other concentrated form or coal waste or acid forming materials.
  - (d) All locations shall be sampled at least twice prior to initiation of reclamation work. Sampling dates must be at least four weeks apart, and sampling should not occur within one week following precipitation that has produced surface runoff. At the end of the project, each location should be sampled once, within four weeks of completing work, and not within one week following precipitation that has produced surface runoff.
  - (e) Samples shall be analyzed for the same parameters as impoundment draining with the addition of dissolved oxygen (DO).

### STORMWATER CONDITIONS

1. When a sample of stormwater is collected:
  - (a) The laboratory results of all samples from a discharge collected and analyzed must be retained on site with monitoring records and made available to the Department upon request and shall be submitted with renewal application materials.
  - (b) Precipitation events include rainfall as well as run-off from the melting of frozen precipitation.
  - (c) For flow-through BMPs, stormwater samples shall be collected within the first 60 minutes of discharge occurring as a result of precipitation events exceeding 0.1 inches during a 24-hour period, if possible.
  - (d) For retention BMPs, stormwater samples shall be collected only when a discharge occurs and, if possible, shall be taken from the outfalls. Dip sampling of effluent in retention structures should not be performed.
  - (e) Stormwater samples shall be collected prior to leaving or at the property boundary or before the discharge enters waters of the state on the property.

More information on stormwater sampling may be found in the following document: Industrial Stormwater Monitoring and Sampling Guide (Document number: EPA 832-B-09-003) published by the Environmental Protection Agency (EPA) in March 2009, [https://www3.epa.gov/npdes/pubs/msgp\\_monitoring\\_guide.pdf](https://www3.epa.gov/npdes/pubs/msgp_monitoring_guide.pdf).

2. This permit stipulates pollutant benchmarks applicable to the facility's stormwater discharges.
  - (a) Benchmarks do not constitute direct numeric effluent limitations; therefore, a benchmark exceedance alone is not a permit violation. Stormwater monitoring, numeric benchmark compliance, and visual inspections shall be used to determine the overall effectiveness of the BMPs identified in the Stormwater Pollution Prevention Plan (SWPPP).
  - (b) If a sample exceeds a benchmark concentration or an inspection exceeds a narrative requirement, the facility must review the SWPPP and BMPs to determine what improvements or additional controls are needed to reduce the pollutant concentrations in the facility's future stormwater discharges.
  - (c) Every time a numeric benchmark exceedance occurs, a Corrective Action Report (CAR) must be completed. A CAR is a document recording the efforts undertaken by the facility to improve BMPs to meet benchmarks in future samples. CARs must be retained with the SWPPP and be available to the Department upon request. This permit may require CARs be submitted to the Department upon permit renewal; see Renewal Requirements section below.
  - (d) Failure to take corrective action to address any narrative or numeric benchmark exceedance, and failure to make measureable progress towards achieving the numeric benchmark(s), is a permit violation.

STORMWATER CONDITIONS, CONTINUED

- (e) Stormwater benchmarks and required minimum BMPs as described in this permit are enforceable permit conditions. Any requested change(s) to numeric benchmark values or deviation from minimum BMP requirements must be established through the permitting process, which may include a transfer to a site specific permit to incorporate site specific conditions. Assessment, evaluation, and implementation of specific BMPs to meet numeric benchmarks or minimum BMP requirements, must be addressed through the SWPPPs and CARs.
3. This permit requires the development and implementation of a SWPPP. The Land Reclamation Program shall be required to draft and implement the SWPPP on each site under this permit. When applying for coverage under this permit, a SWPPP including an Alternative Analysis of the BMPs must be developed, implemented, and maintained at the facility. Failure to implement and maintain the chosen alternative, which can be revised and updated, is a permit violation. The Alternative Analysis is a structured evaluation of BMPs to determine which are reasonable and cost effective. The analysis should include practices designed to be 1) non-degrading 2) less degrading, or 3) degrading water quality. The chosen BMP will be the most reasonable and cost effective while ensuring the highest quality water attainable for the facility is discharged. The analysis must demonstrate why “no discharge” or “no exposure” are not feasible alternatives at the facility. Existing facilities with established SWPPPs and BMPs need not conduct an additional Alternatives Analysis unless new BMPs are established to address BMP failures. This structured analysis of BMPs serves as the Antidegradation review, fulfilling the requirements of 10 CSR 20-7.015(9)(A)5 and 7.031(3).
4. The permittee shall select, install, use, operate, and maintain the BMPs prescribed in the SWPPP in accordance with the concepts and methods described in the following documents: *Developing Your Stormwater Pollution Prevention Plan, a Guide for Industrial Operators*, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (EPA) in June 2015. [https://www.epa.gov/sites/production/files/2015-11/documents/swppp\\_guide\\_industrial\\_2015.pdf](https://www.epa.gov/sites/production/files/2015-11/documents/swppp_guide_industrial_2015.pdf). (General information may also be found at <https://www.epa.gov/npdes/industrial-stormwater-guidance>.); and *Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites*, (Document number EPA 833-R-06-004) published by EPA in May 2007 (This manual as well as other information, including examples of construction SWPPPs, is available at the EPA internet site at [https://www.epa.gov/sites/production/files/2015-10/documents/sw\\_swppp\\_guide.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/sw_swppp_guide.pdf)).
- (a) **New Facilities:** The new SWPPP for the facility must be prepared within 60 days and implemented within 180 days of permit issuance.
- (b) **Existing Facilities:** The existing SWPPP for your facility must be reviewed, revised as necessary, and implemented within 30 days of reissuance of coverage.
- (c) **Expanding Facilities:** The existing SWPPP for the facility, including the Alternative Analysis, must be reviewed and revised as necessary. Once expansion occurs the revised SWPPP must be implemented within 30 days of permit modification.
5. The purpose of the SWPPP and the BMPs listed therein is to prevent pollution per 10 CSR 20-2.010(56) to waters of the state. A deficiency of a BMP means it was not effective in preventing pollution of waters of the state or meeting benchmarks of this permit. Corrective action means the facility took steps to eliminate the deficiency. The SWPPP must be kept on-site (either electronically or paper copy), readily available upon request, and should not be sent to the Department unless specifically requested. Throughout coverage under this permit, the facility must perform SWPPP review and revision to incorporate any significant site condition changes which impact the nature and condition of stormwater discharges. For all facilities the SWPPP must include the following:
- (a) An assessment of all stormwater discharges associated with the facility, facility activities, and facility materials. This assessment must include a list of potential contaminants and an annual estimate of amounts used and/or produced in the described activities.
- (b) A listing of BMPs and a narrative explaining how the BMPs will be implemented to control and minimize the amount of potential contaminants entering stormwater.
- (c) Wash water for vehicles, building, or pavement must be handled in a no-discharge manner (infiltration, hauled off-site, etc.). Describe the disposal method and include all pertinent information (destination for effluent, BMPs, etc.) in the SWPPP. If wash water is not produced, note this instead.
- (d) A site map or, if necessary, multiple maps. The map shall be updated as needed to reflect current BMPs in use. Stormwater outfalls do not need to be marked in the field. The map does not need to be printed on paper. Electronic or other accessible maps will be considered adequate compliance with this condition. The map(s) shall show the following:
- (1) Boundaries of the property and the size of the property in acres;
  - (2) Location and extent of significant structures and impervious surfaces;
  - (3) Direction of stormwater flow, marking areas (use arrows) where high potential for soil erosion are found;
  - (4) Location of all permitted features, outfalls, structural BMPs, and other stormwater control measures;
  - (5) Location of all stormwater conveyances including ditches, pipes, and swales;
  - (6) Location of potential stormwater pollutant sources;



STORMWATER CONDITIONS, CONTINUED

- (7) If applicable, municipal separate storm sewer systems (MS4s) and where stormwater from the facility discharges to them;
  - (8) Locations of the following activities which are exposed to precipitation:
    - i. Fueling stations;
    - ii. Vehicles and equipment maintenance and/or cleaning areas;
    - iii. Loading and unloading areas;
    - iv. Locations used for the treatment, storage, or disposal of wastes;
    - v. Salt storage areas (salt used for de-icing or other commercial or industrial purposes);
    - vi. Liquid storage tanks, noting whether they have secondary containment; and
    - vii. Processing and storage areas.
  - (9) Locations and sources of run-on to your site from adjacent property that may contain significant quantities of pollutants.
- (e) A schedule for monthly site inspections and a brief written report, which includes the name of the inspector, the signature of the inspector, and the date. The inspections must include observation and analysis of BMP effectiveness, deficiencies, and corrective action to be taken.
- (1) At a minimum, the following areas must be inspected:
    - i. Disturbed areas;
    - ii. Stormwater controls and pollution prevention measures;
    - iii. Locations where stabilization measures have been implemented;
    - iv. Material, waste, borrow, or equipment storage and maintenance areas;
    - v. Areas where stormwater flows; and
    - vi. Points of discharge.
  - (2) During inspections, at the minimum, the following must be checked:
    - i. Whether all stormwater controls are installed, operational, and working as intended;
    - ii. Whether any new or modified stormwater controls are needed;
    - iii. Facilities examined for conditions that could lead to a spill or leak; and
    - iv. Facility examined for visual signs of erosion or sedimentation at outfalls. Excessive erosion or sedimentation may be due to BMP failure or insufficiency. Response to the excessive erosion or sedimentation should be addressed in the inspection report.
  - (3) Operational deficiencies must be corrected within seven (7) days and must be documented in the inspection report.
  - (4) Minor structural deficiencies must be corrected within fourteen (14) calendar days and must be documented in the SWPPP records.
  - (5) For major structural deficiencies which are projected to take longer than fourteen (14) calendar days to correct, The facility may submit a written request to the Department justifying additional time, if necessary, to complete corrective action. If required by the Department, the permittee shall work with the regional office to determine the best course of action. The permittee should consider temporary structures in the interim to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
  - (6) BMP failure causing discharge through an unregistered outfall is considered an illicit discharge and must be reported in accordance with Standard Conditions Part I.
  - (7) Inspection reports must be kept with the SWPPP and must be made available to the Department upon request.
  - (8) Inactive facilities: the requirement to conduct facility inspections on a monthly basis does not apply at a facility that is inactive and unstaffed as long as there are no industrial materials or activities exposed to stormwater. Such a facility shall only be required to conduct an inspection annually. To invoke this exception, notification the facility is inactive must be made in the application materials submitted to the Department for renewal or issuance of a new permit. If a facility is already covered by a permit when they become inactive, they must submit notification to the appropriate Department Regional Office in writing of their intent to be considered "inactive". The SWPPP shall also be updated to reflect this information. If circumstances change and industrial materials or activities become exposed to stormwater or the site becomes active, this exception will no longer apply, and the facility must immediately resume required monthly inspections.
- (f) A provision for designating an individual to be responsible for environmental matters.
- (g) A provision for providing training to all personnel involved in material handling, material storage, and housekeeping of areas having materials exposed to stormwater. Proof of training must be made available to the Department upon request.
- (h) A provision for evaluating benchmarks/effluent limitations established in this permit.

STORMWATER CONDITIONS, CONTINUED

6. The following minimum BMPs must be implemented at all facilities:
- (a) Collection facilities shall be provided on-site, and arrangements shall be made for proper disposal of waste products, including but not limited to petroleum waste products, solid waste, de-icing products, and solvents, which may be exposed to stormwater. Keep storage bins for waste products covered to minimize contact with precipitation, where possible.
  - (b) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of stormwater from these substances. This might include, for example, utilizing drip pans under vehicles and equipment stored outdoors, covering fueling areas, using dry clean-up methods, use of absorbents, and cleaning pavement surfaces to remove oil and grease.
  - (c) Store all paints, solvents, petroleum products, petroleum waste products and storage containers (such as drums, cans, or cartons) so they are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention, control, and countermeasures to prevent any spill of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall prevent the contamination of groundwater.
  - (d) Provide sediment and erosion control sufficient to minimize sediment loss off of the property, pollution of waters of the state, and to comply with the conditions of this permit, Missouri Clean Water Law, and the CWA. This may require the use of straw bales, silt fences, sediment basins, or other treatment structures. This may also require the construction of properly designed sediment basins or other treatment structures.
    - (1) Ensure that all erosion and sediment controls remain in effective operating condition.
    - (2) A sediment or erosion control measure needs maintenance to continue operating effectively. Wherever a problem is discovered, initiate efforts to fix it immediately. Complete such work by the end of the next work day when possible.
    - (3) When a sediment or erosion control must be completely replaced or significantly repaired, complete the work within seven (7) days unless infeasible. If seven days is infeasible, replacement or repair must be completed as soon as practicable.
  - (e) Provide good housekeeping practices on-site to keep solid waste from entering waters of the state. For example, direct stormwater away from areas where storage, loading and unloading, and material handling occur and perform good housekeeping to prevent the discharge discolored or otherwise impacted stormwater.
  - (f) Facilities shall manage materials (products, stockpiles, waste piles, etc.).
    - (1) Minimize erosion from soil or other stockpiles from stormwater and wind via a temporary cover where possible.
    - (2) Minimize sediment from stormwater that runs off stockpiles using sediment controls.
    - (3) Prevent stormwater flows from causing erosion of stockpiles, for example, by diverting flows around them.
    - (4) Facility shall ensure materials are not discharged off-site or into a water of the state during a high water event.
  - (g) Minimize the generation of dust and off-site tracking (track-out) of raw, final, or waste materials in order to minimize contact pollutants discharged in stormwater.
    - (1) Restrict vehicle traffic to designated and controlled exit points.
    - (2) Use stabilization techniques at all exit points onto paved roads
    - (3) Use additional controls to remove sediment from vehicle and equipment tires prior to exit from facility where necessary.
    - (4) Remove sediment that is tracked out of the facility onto paved roads by the end of the work day where possible.
  - (h) Minimize the accumulation of metals or aging equipment with visible rust in outdoor locations exposed to stormwater. Ensure metal equipment and scrap are stored indoors or in a covered container when possible.
  - (i) The drainage area around secondary containments and the interior of the secondary containments shall be inspected monthly. Solids, sludge, and soluble debris shall not be allowed to accumulate in the secondary containment.
  - (j) The drainage area around secondary containments and the interior of the secondary containments shall be inspected monthly. Records of inspection shall be stored with permit records. Solids, sludge, and soluble debris shall not be allowed to accumulate in the secondary containment.

LAND DISTURBANCE CONDITIONS

The facility will not be required to procure a separate general permit (MO-RA000000) for land disturbance activities which discharge through outfalls authorized in this permit if the following conditions are followed. If land disturbance activities discharge to any location other than through a permitted outfall, a separate MORA general permit or site specific permit is required. The general permit does not cover disturbance of contaminated soils.

1. Minimum Best Management Practices (BMPs) for land disturbance must prevent discharges from causing or contributing to an exceedance of water quality standards, including general criteria. All pollution prevention measures must be described in the SWPPP; at a minimum such measures must be designed, installed, implemented, and maintained to:
  - (a) Control stormwater volume and velocity to reduce peak flow rate at the facility and minimize erosion of the outlets, downstream channel, and stream banks.
  - (b) Installation of sediment controls necessary to prevent soil erosion at the project boundary must be complete prior to the start of all phases of land disturbance in areas where stormwater runoff may freely leave the site. For projects where perimeter controls are infeasible, other practices shall be implemented to minimize discharges to perimeter areas of the project.
  - (c) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property to comply with water quality criteria (narrative and numeric) and effluent limits or benchmarks contained in this permit.
  - (d) Minimize the amount of soil exposed during construction or land disturbance activity.
  - (e) Minimize the disturbance of steep slopes.
  - (f) Minimize sediment discharges from the project. Design, install, and maintain erosion and sediment controls addressing factors such as the amount, frequency, intensity, and duration of precipitation; the nature of resulting stormwater runoff; and soil characteristics, including the range of soil particle size expected to be present on the project;
  - (g) Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas to increase sediment removal, and maximize stormwater infiltration and filtering unless infeasible;
  - (h) Unless infeasible, preserve topsoil, existing vegetation, and trees.
  - (i) Remove any sediment from perimeter controls per the manufacturer's instructions or before it has accumulated to one-half of the above-ground height of any perimeter control.
  - (j) For protection of surface waters of the state, the facility shall:
    - (1) Provide and maintain a 25-foot, undisturbed, natural buffer from any stream or property boundary;
    - (2) If less than 25 feet, provide and maintain an undisturbed natural buffer supplemented by erosion and sediment controls to achieve the sediment load reduction equivalent to a 25-foot undisturbed natural buffer; or
    - (3) If infeasible to provide and maintain an undisturbed natural buffer of any size, implement erosion and sediment controls to achieve the sediment load reduction equivalent to a 25-foot undisturbed natural buffer.
    - (4) Where retaining a buffer of any size, the buffer should be measured perpendicularly from any of the following points, whichever is further landward from the water. The ordinary high water mark of the water body, [33 CFR 328.3(c)(6)]; or the edge of the stream or river bank, bluff, or cliff, whichever is applicable.
  - (k) The facility shall ensure BMPs are properly installed at the locations and times specified in the SWPPP. Peripheral or border BMPs to control runoff from disturbed areas shall be installed or marked for preservation before general site clearing is started. Note, this requirement does not apply to earth disturbances related to initial site clearing for establishing entry, exit, and access of the site, which may require stormwater controls be installed immediately after the earth disturbance. For phased projects, BMPs shall be properly installed iteratively prior to construction activities. Stormwater discharges shall pass through an appropriate sediment control measure, such as a sedimentation basin, sediment traps, or silt fences, prior to leaving the land disturbance area.
  - (l) Stormwater control inlets susceptible to receiving sediment shall have curb inlet protection. Curb inlet protection shall be cleaned as needed and per manufacturer's specification when applicable.
  - (m) Where land disturbance stormwater will flow from a roadway, a sediment catching BMP such as a berm or silt fence shall be provided.
2. In addition to the SWPPP requirements found in the STORMWATER REQUIREMENTS section above, the following shall be included in a "Land Disturbance" section of the SWPPP:
  - (a) A list and description of selected BMPs in use for land disturbance at the site. The list shall include structural, operational, managerial, and procedural BMPs used or intended for use. Procedural BMPs are activities or behaviors such as street sweeping or good housekeeping techniques. Descriptions shall include whether the BMP is temporary or permanent; the site conditions required for effective use of the BMP (maximum slope, etc.); BMP installation/construction procedures, including representative drawings as necessary; and operation and maintenance procedures for the BMPs. Procedural BMPs shall be described based on frequency required, interval between executions, or other detailed site conditions or qualifying events shown to be applicable to each procedural BMP. The descriptions must indicate where and how BMPs will be implemented to address specific, variable site locations including but not limited to entry/exit, slopes, stream buffer zones, allowable dewatering activities, sediment stockpiles, and stabilization measures.

LAND DISTURBANCE CONDITIONS, CONTINUED

- (b) A description of any anticipated dewatering methods. The description shall include a detailed list of BMPs planned or implemented to treat water pumped from trenches and excavations. Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by proper controls. In no case shall water from trenches or excavations be pumped off-site or into waters of the state without being treated by the specified BMPs, which must treat the water to comply with the narrative general water quality standards found in 10 CSR 20-7.031(4).
  - (c) Land disturbance areas shall be inspected at the same time as general inspections required in the STORMWATER REQUIREMENTS section, condition #7, above. In addition, the land disturbance BMPs will be inspected after the following conditions, and a record of the additional inspections will be kept with the SWPPP:
    - (1) At least once every seven calendar days and within 48 hours after any storm event equal to or greater than a 2-year, 24-hour storm has ceased during a normal work day and within 72 hours if the rain event ceases during a non-work day such as a weekend or holiday; or
    - (2) Once every 14 calendar days and within 24 hours of the occurrence of a storm event of 0.25 inches of precipitation or greater or the occurrence of runoff from snowmelt. To determine if a storm event of 0.25 inches or greater has occurred on your site, the responsible individual must either keep a properly maintained rain gauge on site or obtain the storm event information from a weather station for the location.
    - (3) If inspections occur every 14 calendar days, there is a storm event at the site continuing for multiple days, and each day of the storm produces 0.25 inches or more of rain, the facility is required to conduct an inspection within 24 hours of the first day of the storm and within 24 hours after the end of the storm.
    - (4) An individual must conduct an inspection within 24 hours once a storm event has produced 0.25 inches within a 24 hour period, even if the storm event is still continuing.
    - (5) The SWPPP must explain how the person responsible for erosion control will be notified when stormwater runoff occurs. If weather conditions prevent correction of BMPs within seven calendar days, the reasons for the delay must be documented (including pictures), and there must be a narrative explaining why the work cannot be accomplished within the seven day time period. The documentation must be filed with the regular inspection reports. The permittee shall correct the problem as soon as weather conditions allow.
    - (6) Areas on-site and finally stabilized must be inspected at least once per month and are not required to meet (1), (2), (3), and (4) above.
  - (d) A section recording the dates the land disturbance section of the SWPPP is updated and the purpose of the update. The land disturbance section of the SWPPP shall be updated when the design, operation, or maintenance of land disturbance BMPs are changed; when design of the land disturbance project is changed and could significantly alter the quality of stormwater discharges; facility site inspections indicate deficiencies in land disturbance BMPs, or the BMPs are found to be ineffective as minimizing and controlling erosion and sedimentation; or the Department notifies the facility in writing of deficiencies in land disturbance BMPs or the SWPPP, including notification that discharges from the site caused violations of water quality standards, including general criteria found at 10 CSR 20-7.031(4).
  - (e) The Land Reclamation Program shall be responsible for notifying each contractor or entity (including but not limited to utility crews, city employees or their agents, or other personnel) who will perform work which could impact stormwater runoff at the site. These notifications shall include notice of the existence of the SWPPP and what actions or precautions shall be taken while on-site to minimize the potential for erosion and the potential for damaging any BMP.
3. For disturbed areas:
- (a) For temporarily ceased soil disturbing activities on any portion of the project not resuming for a period exceeding 14 calendar days, the facility shall construct BMPs to establish interim stabilization, and stabilization must be initiated immediately and completed within 14 calendar days.
  - (b) For permanently ceased soil disturbing activities on any portion of the project, final stabilization of disturbed areas must be initiated immediately and completed within 14 calendar days. Allowances to the 14 day completion period for temporary and final stabilization may be made due to weather and equipment malfunctions. The use of allowances shall be documented in the SWPPP.
  - (c) Interim stabilization shall consist of well-established and maintained BMPs reasonably certain to protect waters of the state from sediment pollution over an extended period of time. This may require adding more BMPs to an area normally used during daily operations. These BMPs may include a combination of sediment basins, check dams, sediment fences, and/or mulch. The types of BMPs used must be suited to the area disturbed, taking into account the number of acres exposed and the steepness of the slopes. If the slope of the area is greater than 4:1 (four feet horizontal to one foot vertical) or if the slope is greater than 3% and greater than 150 feet in length, the permittee shall establish interim stabilization within seven days of ceasing operations on interim areas.
  - (d) If vegetative stabilization measures are being implemented, stabilization is considered "installed" when activities necessary to seed or plant the area are complete. Final stabilization is not considered achieved until vegetation is established. Two years of growing seasons may be required to ensure roots are fully established and vegetation and soils will not be washed away during high-precipitation storm events. If non-vegetative stabilization measures are being implemented, stabilization is considered "installed" when all such measures are implemented or applied.

## STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Standard Conditions Part I dated August 01, 2014, hereby incorporated as though fully set forth herein.

## PERMIT REQUIREMENTS

1. Electronic Discharge Monitoring Report (eDMR) Submission System. Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit), shall be submitted via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data for the NPDES program. The eDMR system is currently the only Department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the Department. The facility must register in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due.
2. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (Section 644.055, RSMo). The fee structure can be found at 10 CSR 20-6.011.
3. Compliance with all requirements in this permit does not supersede nor remove liability for compliance with county and other local ordinances.
4. The laboratory results of all samples from a discharge collected and analyzed must be uploaded into the eDMR system.
5. Non-stormwater outfalls must be clearly marked in the field. Stormwater outfalls shall be, at a minimum, marked on a map kept with the SWPPP.
6. The permittee shall furnish to the Department, upon request, copies of records required to be kept according to the terms and conditions of this permit. Records may be maintained electronically and provided electronically through email if applicable.
7. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
  - (a) The alteration or addition could significantly change the nature or increase the quantity of pollutants in the discharge. This notification applies to pollutants subject to the effluent limitations of this permit as well as new pollutants different from pollutants listed in this permit; or
  - (b) The alteration or addition results in a significant change in disposal practices and may justify the application of permit conditions different from or absent in the current permit.
8. Before releasing water accumulated in petroleum secondary containment areas, it must be examined for hydrocarbon odor and presence of sheen to protect the general criteria found at 10 CSR 20-7.031(4).
  - (a) If odor or sheen is found, the water shall not be discharged without treatment and shall be disposed of in accordance with legally approved methods, such as being sent to an accepting wastewater treatment facility.
  - (b) If the facility wishes to discharge the accumulated stormwater with hydrocarbon odor or presence of sheen, the water shall be treated using an appropriate removal method. Following treatment and before release, the water shall be tested for oil and grease, benzene, toluene, ethylbenzene, and xylene using 40 CFR part 136 methods. All pollutant levels must be below the most protective, applicable standards for the receiving stream found in 10 CSR 20-7.031 Table A before discharge is authorized. Records of all testing and treatment of water accumulated in secondary containment shall be available on demand to the Department. Electronic records retention is acceptable.
9. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with RSMo 644.051.16 and the CWA section 402(k); however, this permit may be reopened and modified or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Clean Water Act Sections 301(b)(2)(C) and (D), §304(b)(2), and §307(a) (2) if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit or controls any pollutant not limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.
10. Changes in Discharges of Toxic Substances. In addition to the reporting requirements under 40 CFR 122.41(1), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Department as soon as they know or have reason to believe:
  - (a) An activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit if the discharge will exceed the highest of the following notification levels:

- 1) One hundred micrograms per liter (100 µg/L);
  - 2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;
  - 3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
  - 4) One milligram per liter (1 mg/L) for antimony;
  - 5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
  - 6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
- (b) An activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit if the discharge will exceed the highest of the following “notification levels”:
- 1) Five hundred micrograms per liter (500 µg/l);
  - 2) One milligram per liter (1 mg/l) for antimony;
  - 3) Ten (10) times the maximum concentration value reported for the pollutant in the permit application in accordance with §122.21(g)(7).
  - 4) The level established by the Director in accordance with §122.44(f).
11. Reporting of Non-Detects.
- (a) Compliance analysis conducted by the permittee or any contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated. See sufficiently sensitive test method requirements in Standard Conditions Part I, Section A, #4 regarding proper testing and detection limits used for sample analysis. For the purposes of this permit, the definitions in 40 CFR 136 apply; method detection limit (MDL) and laboratory established reporting limit (RL) are used interchangeably in this permit.
  - (b) The permittee shall not report a sample result as “non-detect” without also reporting the MDL. Reporting “non-detect” without also including the MDL will be considered failure to report, which is a violation of this permit.
  - (c) For the daily maximum, the permittee shall report the highest value; if the highest value was a non-detect, use the less than “<” symbol and the laboratory’s highest method detection limit (MDL) or the highest reporting limit (RL); whichever is higher (e.g. <6).
  - (d) When calculating monthly averages, zero shall be used in place of any value(s) not detected. Where all data used in the average are below the MDL or RL, the highest MDL or RL shall be reported as “<#” for the average as indicated in item (c).

#### PERMIT RENEWAL

1. Unless terminated, the permittee shall submit an application for the renewal of this permit by submitting *Form E-Application for General Permit* <https://dnr.mo.gov/document/form-e-application-general-permit-under-missouri-clean-water-law-mo-780-0795-0> no later than thirty (30) days prior to the permit’s expiration date.
2. When a facility submits a timely and complete application in accordance with 10 CSR 20-6.010(10)(C)1 and the Department is unable through no fault of the permittee to issue a renewal prior to expiration of the previous permit, the terms and conditions of the expired permit are administratively continued and will remain fully effective and enforceable until such time when a permit action is taken. Failure to submit a renewal application is a violation of the Missouri Clean Water Law. Failure to apply for renewal of a permit may result in termination of this permit and enforcement action to compel compliance with this condition and the Missouri Clean Water Law.
3. This facility must submit all corrective action reports completed for the last permit term if a benchmark exceedance occurred.

#### PERMIT TRANSFER

1. This permit may not be transferred to a new owner in any fashion except by submitting an *Application for Transfer of Operating Permit* <https://dnr.mo.gov/sites/dnr/files/vfc/2018/10/main/780-1517-f.pdf> signed by the current owner and future owner of the facility along with the appropriate modification fee. In some cases, revocation and reissuance may be necessary. Standard Condition Part 1, Subsection D.7 applies.
2. Facilities that have undergone transfers of ownership without prior notice to the Department will be considered to be operating without a permit.

#### PERMIT TERMINATION

1. Post-project sampling for instream water quality (see PRE-PROJECT AND POST-PROJECT SAMPLING REQUIREMENTS above) shall be submitted with the application for termination.
2. The permittee shall apply for permit termination when activities covered by this permit have ceased and no significant materials as defined by 10 CSR 20-6.200(1)(C)27 remain on the property or if on the property are stored in such a way as to have no

potential for pollution. Whenever a release or a potential for release from a permitted facility is permanently eliminated, the existing permit may be terminated.

3. Proper closure of any effluent storage structure is required prior to permit termination.
4. Permits do not terminate automatically upon expiration. In order to terminate this permit, the permittee shall notify the Department's appropriate regional office by completing and submitting *Request for Termination of Operating Permit* <https://dnr.mo.gov/document-search/request-termination-operating-permit-mo-780-2814> . The Department may require inspection of the premises prior to granting termination of a permit.

#### NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to pursue an appeal before the administrative hearing commission (AHC) pursuant to Sections 621.250 and 644.051.6 RSMo. To appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal should be directed to:

Administrative Hearing Commission  
U.S. Post Office Building, Third Floor  
131 West High Street, P.O. Box 1557  
Jefferson City, MO 65102-1557  
Phone: 573-751-2422  
Fax: 573-751-5018  
Website: <https://ahc.mo.gov>