

Fact Sheet
Owl's Head - Butler
Construction/Operation Permit
Permit No. 016-00024 / Agency Interest No. 163490
Application No. APE20230005 / Cell A, Phase 1
December 5, 2023

Applicant & Facility Information

- Applicant: Owl's Head Alloys, Inc.
- Applicant Mailing Address: 187 Mitch McConnell Way, Bowling Green, KY 42101
- Facility: Owl's Head-Butler
- Facility Address: KY 70 near Gardner Lane Road, Morgantown, KY 42261
- Facility Contact: Michael Boyle (270) 842-1300

Proposed Activity and Waste Description

- The applicant has constructed the first waste disposal cell (Cell A, Phase 1) and ancillary items and has requested authorization to operate a new residual landfill. The constructed waste disposal cell is 2.1 acres. Division of Waste Management (DWM) personnel performed a final inspection of the construction activities on September 14, 2023.
- The waste to be disposed of is industrial solid waste generated from aluminum recycling consisting of salt cake (98%) and bag house dust (2%) generated from the Owl's Head Alloys, Inc. facility in Bowling Green, KY.

Facility Average Daily Disposal Rate

- 190 tons/day (estimated); Facility Average Annual Disposal Rate: 58,000 tons/year (estimated)

Facility Design (401 KAR 47:030, 48:050 & 48:170)

- The landfill bottom liner and leachate collection systems for this constructed cell are in conformance with the design per approved application APE20190001.
- Leachate generated from the waste will be collected in the drainage layers, then conveyed through gravity and force main piping to on-site storage tanks constructed with secondary containment. Leachate will be periodically transferred from the tanks into transportation tanker trucks to be hauled off-site to a permitted wastewater treatment facility.
- Groundwater monitoring is accomplished via five (5) constructed groundwater monitoring wells and an underdrain network beneath the constructed cell. Surface water monitoring is accomplished by two (2) surface water monitoring points and one (1) KPDES discharge point.

Variances, Alternate Specifications and Special Conditions

- There are no new variances, alternate specifications or special conditions added to this proposed permit.

Permitting and Public Information Procedures

- **Public Notice:** A public notice for the receipt of the Cell A, Phase 1 Construction Progress Report was issued September 20, 2023, and a public notice for the proposed permit is scheduled to be issued on December 6, 2023.

The term “draft permit” was erroneously used in the public notice request sent to the newspaper on November 28, 2023. A “proposed permit” is the correct reference for the permit issued.

- **Comment Period:** The current public comment period shall begin on December 6, 2023 and end January 4, 2023.
- **Access to Records:** An electronic copy of the administrative record - which includes, but is not limited to, the public notice, the proposed permit, the fact sheet, and the construction progress report - is available at: <http://dep.gateway.ky.gov/eSearch/agencydetails?agencyid=163490> in the Activities with Downloadable Documents table.
- **Response to Comments:** A final determination (e.g. approval or denial) regarding the report, will not be issued until after January 4, 2023, the end of the public comment period in accordance with 401 KAR 47:140.

If comments are received during the public comment period, they will be described and responded to in writing in the form of a Response to Comments (RTC) document. Upon issuance, access will be here: <http://dep.gateway.ky.gov/eSearch/agencydetails?agencyid=163490>

- **Comments and Contact Information:** Public comments must be submitted in writing no later than January 4, 2023, to: Danny Anderson, P.E., Division of Waste Management, Solid Waste Branch, 300 Sower Blvd., Second Floor, Frankfort, KY 40601. Electronic comments may be submitted using the Solid Waste Branch Submittal Form, eForm #203. Instructions for use may be found at: <https://eec.ky.gov/Environmental-Protection/Waste/solid-waste/Pages/solid-waste-branch-forms.aspx>

To receive related documents via open records, in lieu of the eSearch platform, or to request materials in an alternate format, submit a written request to eec.kora@ky.gov at least 72 hours prior to the desired review date. Please include Agency Interest No. 163490 and Application Activity No. APE20230005 in the request. For additional processing information specific to this permitting action, please contact Jamie Nielsen at Jamie.Nielsen@ky.gov or (502) 782-6426.

PUBLIC NOTICE

Owl's Head - Butler

Agency Interest No. 163490 / Application No. APE20230005

The Energy and Environment Cabinet, Division of Waste Management, Solid Waste Branch (Branch) reviewed the Construction Progress Report (report) from Owls Head Alloys Inc documenting construction of the Residual Landfill in Butler County. The Branch has issued a draft permit.

The name and address of the permit applicant is Owls Head Alloys Inc at 187 Mitch McConnell Way, Bowling Green, KY 42101. The name and address of the facility is Owl's Head – Butler located on KY 70, Morgantown, KY 42261. The contact person is Michael Boyle at (270) 842-1300. This facility may be accessed by traveling west on KY 70 from Morgantown, KY. Continue past I-165 for approximately a half of a mile. The proposed site will be on the right, close to intersection of KY 70 and Gardner Lane Rd.

The draft permit, report, fact sheet, and related information are incorporated into the administrative record. Documents associated with this action are available on the Cabinet's eSearch website by expanding the applicable Solid Waste Program row under the "Activities with Downloadable Documents" table at <https://dep.gateway.ky.gov/eSearch/agencydetails?agencyid=163490>. In lieu of using eSearch, records can be reviewed at the Frankfort office between 8:30 AM and 4:00 PM weekdays by appointment only. To make an appointment or submit an open records request, please email eec.kora@ky.gov at least 72 hours prior to the desired review date.

The permitting action is being processed at the Division of Waste Management, Solid Waste Branch, 300 Sower Blvd., 2nd floor, Frankfort, KY 40601. If you wish to make comments on this action, please submit in writing by mailing them to the Solid Waste Branch office no later than January 4, 2024, the end of the 30 day comment period. For other questions pertaining to the permitting process or questions specific to this permitting action, please contact Ms. Jamie Nielsen at Jamie.Nielsen@ky.gov or (502) 782-6426. Please include Agency Interest No. 163490 and Application Activity No. APE20230005 in any reference to this action.

Any person who may be aggrieved by the issuance of a permit for this proposed waste site or facility may file with the cabinet a petition which sets forth the grounds of the objection and demands a hearing pursuant to KRS 224.10-420(2).

The Cabinet does not discriminate on the basis of race, color, religion, sex, national origin, sexual orientation or gender identity, ancestry, age, disability, or veteran status. The Cabinet provides on request, reasonable accommodations necessary to afford individuals with a disability an equal opportunity to participate in all services, programs and activities. Publication of this notice is pursuant to 401 KAR 47:140.

PROPOSED PERMIT



Kentucky Energy and Environment Cabinet
Department for Environmental Protection
Division of Waste Management

PROPOSED PERMIT

Facility:

Owls Head - Butler
KY 70
Morgantown, KY 42261

Permittee:

Owls Head Alloys Inc
187 Mitch McConnell Way
Bowling Green, KY 42101

Agency Interest:

Owls Head Butler Co Landfill
KY 70
Morgantown, KY 42261

The Division has issued the permit under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. This permitted activity or activities are subject to all conditions and operating limitations contained herein. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses or approvals required by this Division or other state and local agencies.

No deviation from the plans and specifications submitted with your application or any condition specified herein is allowed, unless authorized in writing from the Division. Violation of the terms and conditions specified herein may render this permit null and void. All rights of inspection by representatives of the Division are reserved. Conformance with all applicable Waste Management Regulations is the responsibility of the permittee.

Agency Interest ID #: 163490

Solid Waste Permit #: SW01600024

County: Butler

Permitted Activities:

Subject Item	Activity	Type	Status
ACTV002	Residual Landfill/01600024	Construction/Operation	Active

PROPOSED PERMIT

Acreage Summary:

Waste Disposal Area (in Acres):

Activity	Disposal Area
Residual Landfill	4.10
Total Disposal Area	4.10
Total Permitted Area	67.70

Cost Estimate Summary:

Coverage Type	Cost Estimate	Effective	Comments
Closure	\$394,251.75	xx/xx/xxxx	Approved under APE20230005
Post-Closure	\$170,290.90	xx/xx/xxxx	Approved under APE20230005

Financial Assurance Summary:

The owner or operator shall maintain the following financial assurance approved by the Division in compliance with KRS Chapter 224.40-650, KRS Chapter 224.50-862, 401 KAR 45:080, and 401 KAR 48:310:

Instrument Type	Instrument Number	Amount	Date Received	Comments
Surety Bond	TIC083003	\$430,000.00	09/05/2023	
Surety Bond	TIC083004	\$200,000.00	11/13/2023	

First Operational Permit Effective Date: xx/xx/xxxx

Permit Effective Date: 08/03/2022

Permit Expiration Date: 08/02/2027

Permit issued: xx/xx/xxxx

Sincerely,

Proposed
Permit

Danny Anderson, P.E.
Manager, Solid Waste Branch

PROPOSED PERMIT

Permit Conditions:**Subject Items****ACTV0002 - Residual Landfill****Standard Requirements:**

1. General: The owner or operator of a solid waste site or facility shall comply with KRS Chapter 224 and 401 KAR Chapters 30, 40, 47 and 48 for the construction and operation of solid waste facilities. [KRS 224.40-305]
2. Permit Renewal: The owner or operator of a solid waste facility shall submit a permit application for renewal at least 180 days prior to permit expiration unless permission for a later date has been granted in writing by the Cabinet. [401 KAR 47:160 Section 5(2)]
3. General: For construction and operation of the residual landfill, the owner or operator shall comply with KRS Chapter 224.40-310, 401 KAR 48:170 and the approved permit application(s). [401 KAR 48:170]
4. General: The owner or operator only may accept waste at the residual landfill from the sources which are approved per 401 KAR 47:080, Section 2(3), and 47:170, Section 2(11). [401 KAR 47:170 Section 2(11)]
5. Recordkeeping: The owner or operator shall submit a report quarterly, by the 15th of January, April, July, and October, containing the description of compliance with cover requirements. [401 KAR 47:190 Section 8(1)(c)]
6. Recordkeeping: The owner or operator shall conduct an annual survey to determine the remaining landfill volume which may be used for waste disposal. The quantity of waste disposed per day shall be determined by dividing the total waste received in one (1) year by 365 calendar days. This survey shall bear the seal and signature of the registered professional land surveyor or professional engineer who performed the survey. The owner or operator shall submit the annual survey to the Cabinet by July 1 of each year. The annual survey shall contain the following information: Cross-sections on 100 foot intervals showing current waste placement and proposed final contours and remaining capacity in cubic yards. [401 KAR 47:190 Section 8(2)]
7. Recordkeeping: The owner or operator shall submit a report quarterly, by the 15th of January, April, July, and October, containing the environmental monitoring results. The owner or operator shall submit groundwater monitoring data within sixty (60) days of sampling or fifteen (15) days after completing the statistical analysis in accordance with 401 KAR 48:300, Section 7. [401 KAR 47:190 Section 8(1)(d)]

Variances, Alternate Specifications and Special Conditions:

1. General: The owner or operator may utilize two (2) acres of the additional purchased tract of land referred in Attachment 24 of the Technical Application as an entrance road. However, the tract's remaining 16.21 acres shall not be used as a borrow area or for other landfill activities unless a minor modification is submitted to and approved by the Cabinet. [401 KAR 47:100 Section 3, 401 KAR 47:100 Section 4, 401 KAR 47:120, 401 KAR 47:130 Section 2]
2. Wastestreams: The permittee may only dispose of the following waste streams: salt cake and baghouse dust from the Owl's Head Alloys, Inc. facility in Warren County, Kentucky. [401 KAR 48:170 Section 2]

PROPOSED PERMIT

3. Cover: Exposed waste shall be covered with a minimum of six (6) inches of soil at the conclusion of daily filling operations. [401 KAR 48:170 Section 2(1)]
4. Cover: Long-term cover shall be applied to landfill surfaces that will not receive waste within thirty (30) days. [401 KAR 48:170 Section 2(1)]
5. General: The owner or operator shall submit the \$3,000 annual permit renewal fee by December 31 of each year for this activity. The check or money order shall be made payable to the Kentucky State Treasurer and be accompanied by form DEP 7119. [401 KAR 47:090 Section 5]
6. Recordkeeping: The owner or operator shall submit a report quarterly, by the 15th of January, April, July, and October, containing the monthly volume of waste received from each source. The owner or operator may submit the Waste Quantity Report form by the end of the month following the quarter per the grace period discussed in the April 18, 2017 Notice. [401 KAR 47:190 Section 8(1)(b)]
7. Financial Assurance: The maximum extent of operation includes the area of the landfill identified by an operating permit and for which the final cover Construction Progress Report has not yet been approved by the Cabinet. The current maximum extent of operation for this activity is less than or equal to 2.1 acres. [401 KAR 48:310 Section 2(1)]

County Sources - The owner or operator may accept waste as authorized by the Cabinet pursuant to KRS 224 and/or 401 KAR Chapter 47 from the following counties:

Kentucky: Warren

Approved Applications - The owner or operator shall comply with applicable statutes and regulations and the following approved applications:

1. 08-03-2022 - New Residual Landfill, Construction Permit - APE20190001
2. 04-21-2023 - Minor Modification, Additional Landfill Entrance (Authorization) - APE20230001
3. 05-16-2023 - Minor Modification, Additional Landfill Entrance (Permit Issuance) - APE20230001
4. 08-11-2023 - Minor Modification, Groundwater Monitoring Plan - APE20230004
5. xx-xx-xxxx - Construction Progress Report - Cell A, Phase 1 (2.1 acres) - APE20230005

Financial Assurance**ACTV0003 - Financial Assurance**

The following is a history of the financial assurance for this facility:

1. 09-05-2023 - SB #TIC083003, \$430,000.00
2. 11-13-2023 - SB #TIC083004, \$200,000.00

Monitoring Conditions**GSTR0001 - Groundwater Monitoring - SWB: Groundwater Monitoring Group for Unit 1**

PROPOSED PERMIT

Group Members: STRC0010 - Well MW-2; STRC0011 - Well MW-1; STRC0012 - Well MW-5R; STRC0014 - Well MW-3; STRC0015 - Well MW-4

Standard Requirements:

1. The owner or operator shall satisfy the requirements of 401 KAR 48:300 for all wastes (or constituents thereof) contained in waste management units at the facility regardless of the time waste was placed in such unit. [401 KAR 48:300 Section 1]
2. The owner or operator shall monitor groundwater on the approved schedule at each approved groundwater monitoring location in accordance with 401 KAR 48:300, the permit, and the approved plans. A table summarizing the parameters to be monitored, their respective limits and monitoring frequency is included herein. [401 KAR 48:300, 401 KAR 47:120 Section 1]
3. The owner or operator shall conduct statistical analysis of the groundwater data in accordance with 401 KAR 48:300 Section 9 and the approved applications. The statistical test chosen shall be conducted separately for each parameter in each well for each monitoring event. The results shall be maintained as part of the facility record throughout the operating and post-closure life of the facility. [401 KAR 48:300 Section 9, 401 KAR 47:120 Section 1]
4. The groundwater analytical data and statistical analysis report shall be submitted on forms provided by the Cabinet, within sixty (60) days after sampling or 15 days of the completion of statistical analysis, whichever is sooner. [401 KAR 48:300 Section 7, 401 KAR 47:120 Section 1]
5. Metal criteria shall be total metals to be measured in an unfiltered sample. [401 KAR 47:030 Section 6(1)]
6. The permittee shall monitor other parameters as required by the Cabinet based on the waste analyses. [401 KAR 48:300 Section 11(4)]
7. If the analysis of groundwater sample results indicates contamination (i.e., a statistical or MCL exceedence) as specified in 401 KAR 48:300 Section 8(1), the owner or operator shall notify the Cabinet within (forty-eight) 48 hours of receiving the results and shall arrange to split samples no later than ten (10) days from the receipt of the results. [401 KAR 48:300 Section 7]
8. The owner or operator shall be required to prepare and submit a groundwater contamination assessment plan if laboratory analyses of one (1) or more monitoring wells at the site shows the presence of one (1) or more parameters above the maximum contaminant level (MCL) as specified in 401 KAR 47:030 or a statistically significant increase over background levels for parameters that have no MCL. [401 KAR 48:300 Section 8, 401 KAR 47:120 Section 1]
9. The owner or operator shall provide alternate water supplies to all affected parties within twenty-four (24) hours of notification of the Cabinet that sample results indicate contamination of a drinking water supply if it has been determined that the site or facility is the probable source of the contamination. [401 KAR 48:300 Section 8]
10. If required by the Cabinet, groundwater contamination assessment and corrective action shall be performed in full compliance with all provisions of 401 KAR 48:300 Section 8. [401 KAR 48:300 Section 8]

PROPOSED PERMIT

Variances, Alternate Specifications and Special Conditions:

1. Groundwater Well Construction: The owner or operator shall comply with the standards and provisions in 401 KAR Chapter 6. This includes, but not limited to, the provision each monitoring well shall be constructed, modified, or abandoned by a monitoring well driller or monitoring well driller assistant certified in accordance with KRS 223.425 and 401 KAR 6:320. [401 KAR 6:350]
2. The facility shall begin quarterly compliance monitoring for the groundwater monitoring wells upon waste placement. The wells shall be sampled for the parameters listed in the permit. [401 KAR 48:300 Section 11(2), 401 KAR 48:300 Section 11(4)]
3. The facility may purge and sample the groundwater monitoring wells via disposable polyethylene bailer if sufficient water is not available for low-flow purging and sampling per the approved application APE20230004. The quarterly compliance monitoring reports shall state the purging and sampling methods that were utilized for the wells. [401 KAR 47:120 Section 1(8), 401 KAR 47:190 Section 8(1), 401 KAR 48:300 Section 4(3)(b)]
4. Groundwater monitoring well MW-5R shall be utilized for water level measurements for the quarterly compliance monitoring reports, as stated in application APE20230004. If sufficient water is available for groundwater purging and sampling, the facility shall submit a minor modification to the groundwater monitoring plan to propose well MW-5R as a downgradient compliance monitoring well. [401 KAR 47:120 Section 1(8), 401 KAR 47:130 Section 2(2), 401 KAR 47:190 Section 8(1), 401 KAR 48:300 Section 4(3)(b)]
5. Only a Kentucky Certified Monitoring Well Driller may construct or abandon monitoring wells. [401 KAR 6:350]
6. Groundwater monitoring wells shall be constructed and maintained in accordance with 401 KAR 48:300 Section 6, 401 KAR 6:350, the permit, and the approved plans. [401 KAR 47:120 Section 1, 401 KAR 48:300 Section 6, 401 KAR 6:350]
7. No monitoring well construction, maintenance, or abandonment may be conducted without prior approval by the Division of Waste Management. [401 KAR 47:120 Section 1, 401 KAR 47:120 Section 2, 401 KAR 6:350 Section 12]
8. The owner or operator shall provide the Division a minimum of ten (10) working days advance notice for all groundwater monitoring well construction and abandonment activities. [401 KAR 6:350 Section 12(2)]

GSTR0002 - Groundwater Monitoring - SWB: Underdrain Monitoring Group

Group Members: MNPT0003 - Underdrain Monitoring Point 1

Standard Requirements:

1. The owner or operator shall satisfy the requirements of 401 KAR 48:300 for all wastes (or constituents thereof) contained in waste management units at the facility regardless of the time waste was placed in such unit. [401 KAR 48:300 Section 1]
2. The owner or operator shall monitor groundwater on the approved schedule at each approved groundwater

PROPOSED PERMIT

monitoring location in accordance with 401 KAR 48:300, the permit, and the approved plans. A table summarizing the parameters to be monitored, their respective limits and monitoring frequency is included herein. [401 KAR 48:300, 401 KAR 47:120 Section 1]

3. The groundwater analytical data and statistical analysis report shall be submitted on forms provided by the Cabinet, within sixty (60) days after sampling or 15 days of the completion of statistical analysis, whichever is sooner. [401 KAR 48:300 Section 7, 401 KAR 47:120 Section 1]

4. Metal criteria shall be total metals to be measured in an unfiltered sample. [401 KAR 47:030 Section 6(1)]

5. The permittee shall monitor other parameters as required by the Cabinet based on the waste analyses. [401 KAR 48:300 Section 11(4)]

6. If the analysis of groundwater sample results indicates contamination (i.e., a statistical or MCL exceedence) as specified in 401 KAR 48:300 Section 8(1), the owner or operator shall notify the Cabinet within (forty-eight) 48 hours of receiving the results and shall arrange to split samples no later than ten (10) days from the receipt of the results. [401 KAR 48:300 Section 7]

7. The owner or operator shall provide alternate water supplies to all affected parties within twenty-four (24) hours of notification of the Cabinet that sample results indicate contamination of a drinking water supply if it has been determined that the site or facility is the probable source of the contamination. [401 KAR 48:300 Section 8]

8. If required by the Cabinet, groundwater contamination assessment and corrective action shall be performed in full compliance with all provisions of 401 KAR 48:300 Section 8. [401 KAR 48:300 Section 8]

Variances, Alternate Specifications and Special Conditions:

1. Groundwater Monitoring: The facility shall begin quarterly compliance monitoring for the underdrain upon waste placement. The underdrain shall be sampled for the parameters listed in the permit per approved application APE20230004. Statistics shall be conducted for the underdrain per the statistical methods provided in the approved application APE20190001. The results of the quarterly compliance monitoring shall be submitted to the Cabinet quarterly. [401 KAR 47:120 Section 2, 401 KAR 47:190 Section 8(1), 401 KAR 48:300 Section 4(3), 401 KAR 48:300 Section 7, 401 KAR 48:300 Section 9]

2. The owner or operator shall conduct statistical analysis of the groundwater data in accordance with 401 KAR 48:300 Section 9 and the approved applications. The statistical test chosen shall be conducted separately for each parameter for each monitoring event. The results shall be maintained as part of the facility record throughout the operating and post-closure life of the facility. [401 KAR 47:120 Section 1, 401 KAR 48:300 Section 9]

3. The owner or operator shall be required to prepare and submit a groundwater contamination assessment plan if laboratory analyses of Underdrain Monitoring Point 1 at the site shows the presence of one (1) or more parameters above the maximum contaminant level (MCL) as specified in 401 KAR 47:030 or a statistically significant increase over background levels for parameters that have no MCL. [401 KAR 47:120 Section 1, 401 KAR 48:300 Section 8]

PROPOSED PERMIT

GMNP0001 - Surface Water Monitoring - SWB: Surface Water Monitoring Group for Unit 1

Group Members: MNPT0001 - SW-1A; MNPT0002 - SW-1B

Standard Requirements:

1. The owner or operator shall monitor surface water in accordance with 401 KAR 48:300 Section 2 and the approved surface water monitoring plan. A table summarizing the parameters to be monitored and the monitoring frequency is included herein. [401 KAR 48:300 Section 2]
2. Surface water corrective action shall be completed by the owner or operator as necessary to comply with 401 KAR 47:030 Section 4. [401 KAR 47:030 Section 4]
3. Surface water analytical data shall be submitted in the compliance monitoring reports with all other permit-required environmental monitoring results. [401 KAR 48:300 Section 2]
4. Sampling protocol shall measure surface water under base flow conditions that continues to drain after storm-induced runoff has ceased. [401 KAR 48:300 Section 2]
5. The permittee shall monitor other parameters as required by the Cabinet. [401 KAR 48:300 Section 2]

Variances, Alternate Specifications and Special Conditions:

1. The facility shall begin quarterly compliance monitoring for the surface water monitoring points upon waste placement. The surface water monitoring points shall be sampled for the parameters listed in the permit. [401 KAR 48:300 Section 2(3)]

PROPOSED PERMIT

Groundwater Monitoring Limits:

Subject Item	CAS Number	Parameter	Frequency	Lower Limit	Upper Limit	Units	Statistical Limit	Report Only
GSTR0001	7429-90-5	Aluminum, Total (as Al)	quarterly			mg/L	Yes	
GSTR0001		Ammonia Nitrogen, Total (as N)	quarterly			mg/L	Yes	
GSTR0001	7440-38-2	Arsenic, Total (as As)	quarterly		0.05	mg/L		
GSTR0001	7440-39-3	Barium, Total (as Ba)	quarterly		2.0	mg/L		
GSTR0001	7440-43-9	Cadmium, Total (as Cd)	quarterly		0.005	mg/L		
GSTR0001	7440-70-2	Calcium, total [as Ca]	quarterly			mg/L	Yes	
GSTR0001		Carbon, Total Organic	quarterly			mg/L	Yes	
GSTR0001		Chemical Oxygen Demand (COD)	quarterly			mg/L	Yes	
GSTR0001	16887-00-6	Chloride	quarterly			mg/L	Yes	
GSTR0001	7440-47-3	Chromium, Total (as Cr)	quarterly		0.1	mg/L		
GSTR0001	7440-50-8	Copper, Total	quarterly			mg/L	Yes	
GSTR0001		Groundwater Elevation	quarterly			feet above mean sea level based on a USGS datum		Yes
GSTR0001	7439-89-6	Iron, Total (as Fe)	quarterly			mg/L	Yes	
GSTR0001	7439-92-1	Lead, Total (as Pb)	quarterly		0.05	mg/L		
GSTR0001	7439-95-4	Magnesium, Total (as Mg)	quarterly			mg/L	Yes	
GSTR0001	7439-96-5	Manganese, Total (as Mn)	quarterly			mg/L	Yes	
GSTR0001	7439-97-6	Mercury, Total (as Hg)	quarterly		0.002	mg/L		
GSTR0001		Nitrogen, Nitrate Total (as N)	quarterly		10	mg/L		
GSTR0001	7727-37-9	Nitrogen, Total	quarterly			mg/L	Yes	
GSTR0001	7440-09-7	Potassium, Total (as K)	quarterly			mg/L	Yes	
GSTR0001	7782-49-2	Selenium, Total (as Se)	quarterly		0.05	mg/L		
GSTR0001	7440-23-5	Sodium	quarterly			mg/L	Yes	
GSTR0001		Solids, Total Dissolved	quarterly			mg/L	Yes	
GSTR0001		Specific Conductance	quarterly			umhos/cm	Yes	
GSTR0001	63705-05-5	Sulfur	quarterly			mg/L	Yes	
GSTR0001		Temperature, Water Deg.	quarterly			degrees		Yes

PROPOSED PERMIT

Subject Item	CAS Number	Parameter	Frequency	Lower Limit	Upper Limit	Units	Statistical Limit	Report Only
		Fahrenheit				Fahrenheit		
GSTR0001		pH	quarterly			S.U.	Yes	
GSTR0002	7429-90-5	Aluminum, Total (as Al)	quarterly			mg/L	Yes	
GSTR0002		Ammonia Nitrogen, Total (as N)	quarterly			mg/L	Yes	
GSTR0002	7440-38-2	Arsenic, Total (as As)	quarterly		0.05	mg/L		
GSTR0002	7440-39-3	Barium, Total (as Ba)	quarterly		2.0	mg/L		
GSTR0002	7440-43-9	Cadmium, Total (as Cd)	quarterly		0.005	mg/L		
GSTR0002	7440-70-2	Calcium, total [as Ca]	quarterly			mg/L	Yes	
GSTR0002		Carbon, Total Organic	quarterly			mg/L	Yes	
GSTR0002		Chemical Oxygen Demand (COD)	quarterly			mg/L	Yes	
GSTR0002	16887-00-6	Chloride	quarterly			mg/L	Yes	
GSTR0002	7440-47-3	Chromium, Total (as Cr)	quarterly		0.1	mg/L		
GSTR0002	7440-50-8	Copper, Total	quarterly			mg/L	Yes	
GSTR0002		Groundwater Elevation	quarterly			feet above mean sea level based on a USGS datum		Yes
GSTR0002	7439-89-6	Iron, Total (as Fe)	quarterly			mg/L	Yes	
GSTR0002	7439-92-1	Lead, Total (as Pb)	quarterly		0.05	mg/L		
GSTR0002	7439-95-4	Magnesium, Total (as Mg)	quarterly			mg/L	Yes	
GSTR0002	7439-96-5	Manganese, Total (as Mn)	quarterly			mg/L	Yes	
GSTR0002	7439-97-6	Mercury, Total (as Hg)	quarterly		0.002	mg/L		
GSTR0002		Nitrogen, Nitrate Total (as N)	quarterly		10	mg/L		
GSTR0002	7727-37-9	Nitrogen, Total	quarterly			mg/L	Yes	
GSTR0002	7440-09-7	Potassium, Total (as K)	quarterly			mg/L	Yes	
GSTR0002	7782-49-2	Selenium, Total (as Se)	quarterly		0.05	mg/L		
GSTR0002	7440-23-5	Sodium	quarterly			mg/L	Yes	
GSTR0002		Solids, Total Dissolved	quarterly			mg/L	Yes	
GSTR0002		Specific Conductance	quarterly			umhos/cm	Yes	
GSTR0002	63705-05-5	Sulfur	quarterly			mg/L	Yes	

PROPOSED PERMIT

Subject Item	CAS Number	Parameter	Frequency	Lower Limit	Upper Limit	Units	Statistical Limit	Report Only
GSTR0002		Temperature, Water Deg. Fahrenheit	quarterly			degrees Fahrenheit		Yes
GSTR0002		pH	quarterly			S.U.	Yes	

Surface Water Monitoring Limits:

Subject Item	CAS Number	Parameter	Frequency	Lower Limit	Upper Limit	Units	Statistical Limit	Report Only
GMNP0001		Carbon, Total Organic	quarterly			mg/L		Yes
GMNP0001		Chemical Oxygen Demand (COD)	quarterly			mg/L		Yes
GMNP0001	16887-00-6	Chloride	quarterly			mg/L		Yes
GMNP0001	7439-89-6	Iron, Total (as Fe)	quarterly			mg/L		Yes
GMNP0001	7440-23-5	Sodium	quarterly			mg/L		Yes
GMNP0001		Solids, Total	quarterly			mg/L		Yes
GMNP0001		Solids, Total Dissolved	quarterly			mg/L		Yes
GMNP0001		Solids, Total Suspended (TSS)	quarterly			mg/L		Yes
GMNP0001		Specific Conductance	quarterly			umhos/cm		Yes
GMNP0001	14808-79-8	Sulfate	quarterly			mg/L		Yes
GMNP0001		pH	quarterly			S.U.		Yes