

***Riddle Sand and Gravel Operation
4431 Sands Rd, Harwood, MD 20776***

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

In compliance with:

General Permit No. 15MM9877

National Pollution Discharge Elimination System (NPDES)

Prepared By:

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December 2022

TABLE OF CONTENTS

- I. *Introduction*
 - a. SWPPP Purpose
 - b. SWPPP Content

- II. *Facility Description*
 - a. Facility Location
 - b. Site Description
 - c. Site Activates
 - d. Existing Drainage and Discharge Conditions

- III. *Potential Storm Water Contaminations*
 - a. Material Inventory
 - b. Spill and Leak History
 - c. Potential Areas of Storm Water Contamination
 - d. Emergency Contact Information

- IV. *Best Management Practices [BMPs]*
 - a. Existing BMPs

- V. *Facility Monitoring Plan*
 - a. Routine Inspections
 - b. SWPPP Updates and Amendments

- VI. *SWPPP Implementation Task Force*
 - a. SWPPP Coordinator
 - b. SWPPP Coordinator Responsibilities
 - c. SWPPP Implementation Task Force Team Members

- VII. *Compliance Requirements*
 - a. On-Site Record Retention
 - b. Employee Training
 - c. Implementation Schedule
 - d. Annual SWPPP Compliance Assessment
 - e. Corporate Certification

List of Figures

Figure 1: General Vicinity Map

Figure 2: Facility Sketch of Existing Conditions

List of Tables

Table 1: Existing Storm Water Drainage and Discharge Points

Table 2: Material Inventory

Table 3: SWPPP Implementation Schedule

Table 4: SWM Control Measures Implementation Schedule

List of Appendices

Appendix A: Site Inspection Form

Appendix B: Emergency Contact Information

Appendix C: SWPPP Compliance Assessment Form

I. Introduction

a. SWPPP Purpose

This Storm Water Pollution Prevention Plan (SWPPP) has been developed as requirement of the National Pollution Discharge Elimination System (NPDES) program for regulating storm water discharge from mineral mines. Development, proper implementation, and dedicated monitoring of the SWPPP will allow the Riddle Sand and Gravel Mining Operation [herein known as the Riddle Site for the purposes of this report] to control pollutants and comply with all established regulations. The primary purpose of this SWPPP is to:

- 1) Identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site,
- 2) Describe the practices that will be used to reduce pollutants in storm water discharges to assure compliance with the conditions of the Permit, and
- 3) Establish an implementation schedule to ensure that the proposed plan is properly implemented while monitoring the plan's effectiveness in meeting the design goals.

b. SWPP Content

The following components are included in this SWPPP:

- Description of the facilities and existing conditions
- Description of potential storm water contaminations
- Description of measure to be taken and Best Management Practices (BMP's) to be implemented
- Description of the monitoring and inspection plan to be implemented
- Identification of a SWPPP coordinator, SWPPP team members and the responsibilities involved, and
- Description of the requirements for permit compliance.

II. Facility Description

a. Facility Location

The Riddle Site is located on the east side of Sands Road and the Moreland expansion is located on the west side of Sands Road in Harwood, Maryland and is within the Anne Arundel County boundaries. A general vicinity map illustrating thus location is included as **Figure 1**.

b. Site Description

The Riddle Site is located on the east side of Sands Rd and shares a driveway with and is bordered to the southeast by a Waste Management Corporation site. The northern and southern most portions of the property, along with a portion of the eastern boundaries are bordered by existing forest stands. The southwest corner of the site borders a residential area and Sands Rd borders the rest of the western portion of the site. The eastern border consists of a tree line boundary separating the site from the Waste Management site. Structures on-site include an office trailer, an equipment shed, separation/screening equipment, and a large generator and

three small fulling stations located throughout the facility. The entire site is enclosed by a chain link fence and this is where equipment is parked. **Figure 2** is a facility sketch of existing conditions illustrating pertinent structures on-site, as well as existing zones and typical drainage patterns.

c. Site Activities

The Riddle Site is classified as a code 3273 under the 1987 Standard Industrial Classification (SIC) guidelines and as code 327320 under the 2012 North American Industry Classification System (NAICS). Normal operating hours are 6:00 a.m. to 4:00 p.m. and there is an average of six (6) full-time employees on schedule.

d. Existing Drainage and Discharge Conditions

The site can be divided into 3 core Drainage Zones. **Figure 2** includes approximate zone locations and patterns of storm water drainage. Additional detailed information about each drainage zone can be found in **Table 1**. Drainage from the site does not discharge as grading directs water to the wash plant ponds or the lowest point of the mining areas. A pump line system extends from the mining areas north of the wash plant ponds and is used for dewatering of the mining areas.

III. Potential Storm Water Contaminants

a. Material Inventory

Table 2 identifies materials that are used, stored, or produced on-site that may contribute to storm water pollution. A physical description and the probable storm water pollutants are included. This SWPPP is focused on limiting the pollution from these sources.

b. Spill and Leak History

There have been no spills or leaks of any material in this facility within the past three years.

c. Potential Areas for Storm Water Contamination

The following core areas with potential for storm water contamination were considered in the development of this SWPPP:

- Truck Loading Area: Contamination may occur through leaking trucks and equipment or spills from overloaded trucks.
- Equipment Shed: This area is used to store materials and equipment. Equipment repairs are conducted in this structure. Contamination may occur through fluid leaks from stored materials.
- Fueling Station: Contamination may occur in this area through improper fueling or leaking trucks and equipment.
- Stockpile Materials: Several mounds of stockpile material (sand, stone, etc.) are located around the wash plant. Contamination may occur in these areas through sediment runoff.

Table 1 includes site-specific information regarding storm water pollution potential from these areas.

d. *Emergency Contact Information*

In the event of an emergency spill, the Maryland Department of the Environment 24 hr Emergency Spill Hotline (410-974-3551) and the National Response Center at (1-800-424-8802) will be contacted. In the event of a spill situation, a standard spill response procedure will be followed (**Appendix B**). This procedure and emergency contact information will be visible and readily available in the site office

IV. Best Management Practices [BMPs]

This section will detail existing Storm Water Management (SWM) control measures and proposed controls that will be implemented to comply with permit requirements. All Best Management Practices (BMPs) used as control measures in this project were selected to meet or exceed EPA and local requirements. **Table 3** contains specific information and a schedule for target implementation of these control measures. **Figure 2** is a facility sketch of proposed control measures depicting approximate locations of implementation.

a. *Existing BMPs*

The following is a list of effective control measures that are currently in place at the Riddle Site:

- Wash Plant Ponds: A large central pond is the primary collection area on site. Several smaller basins are located throughout the site to collect excess runoff. These ponds supply the sand and gravel wash plant with water.
- Material Storage: Any fluid canisters (truck oil, grease) housed in on-site sea containers or the equipment shed will be kept out of contact with storm water and will remain covered when not in use. There will be no open containers or bags or materials kept on site. Any partially used, bagged material will be transferred to a sealable container and properly labeled.
- Fueling Stations: The fueling stations have been inspected for potential leak hazards and no changes were necessary. A spill kit is installed near the front fueling area. Site personnel have been instructed on proper spill cleanup practices and contact information has been posted on-site.
- Earthen Berms: These are utilized throughout the site to direct water into the Wash Plant Ponds or into the mine pits. They contain any material within the appropriate boundary.
- Equipment Inspections: Equipment used on-site is routinely inspected for fluid leaks and any other potential pollutants to storm water. All equipment receives regular preventative maintenance to reduce the chance of fluid leakage. Any potential problems will be addressed as necessary.
- Dewatering System: The existing pump line system that runs from the mine pit to the Wash Plant Pond will be monitored and maintained to prevent system malfunction.

V. Chaney Enterprises Environmental Inspection Program [CEEIP]

a. *Routine Inspections*

Routine inspections will be conducted throughout the site to decrease the likelihood of a potential pollution situation. The holding ponds, stock pile areas, fueling station, storage areas, and all other pollution prevention implementations will be inspected for effectiveness. As directed by the SWPPP Coordinator, an Environmental Evaluation team has been assigned to

conduct visual observations no less than one time each month (in some months twice). Inspection forms will be completed, signed, and kept in the on-site file. A sample inspection form can be found in **Appendix A**.

b. SWPPP Updates and Amendments

Any changes to operating conditions of the Riddle Site that require modification of existing BMPs or implementation of new BMPs will be recorded in the on-site file for insertion into an updated SWPPP and submitted with the annual compliance assessment (discussed in Section VII. D). This SWPPP shall be amended to include any change in design, construction, operation, or maintenance of the facility that has a significant effect on the potential for the discharge of pollutants to surface waters and that has not been addressed in the normal implementation of the SWPPP. This SWPPP shall also be updated whenever it is found to be ineffective in meeting the requirements of the NPDES Permit and any other applicable regulatory guidelines. In the event that the Maryland Department of the Environment (MDE) notifies the SWPPP Coordinator that the SWPPP does not meet one or more of the provisions of the NPDES Permit or any other applicable regulatory guidelines, changes will be made within a timeframe approved by the MDE.

VI. SWPPP Implementation Task Force

a. SWPPP Coordinator

The SWPPP Coordinator for the Riddle Site is Victor Vilece and can be reached at 301-861-6094.

b. SWPPP Coordinator Responsibilities

The SWPPP Coordinator will be responsible for the following:

- Manage the SWPPP team in the implementation of the SWPPP plan
- Assign inspection duties
- Oversee employee training
- Ensure regulatory compliance of site activities
- Measure overall effectiveness of SWPP implementation
- Address any site operation changes with appropriate SWPPP modifications

c. SWPPP Implementation Task Force Team Members

The following team members will assist the SWPPP Coordinator in all aspects of the SWPPP implementation:

- | | | |
|------------------|-----------------|--------------|
| • Wayne Hardesty | Site Manager | 410-804-4215 |
| • Chris McCoy | Safety Director | 240-299-7172 |

VII. Compliance Requirements

a. On-site Record Retention

Documents are kept in an online database. Access to all permits, records, inspections, and the most recently updated version of this SWPPP will be available in the onsite office via QR code.

b. *Employee Training*

An annual environmental education seminar will be incorporated into ongoing employee training protocol to educate employees about the pollution prevention issues relating to this SWPPP. Employees will be introduced to the requirements of the SWPPP and will be instructed on how to monitor the implemented BMPs for maximum effectiveness.

c. *Implementation Schedule*

A proposed schedule for the implementation of this SWPPP can be found in **Table 3**. An implementation schedule for E&S Controls and BMPs is shown in **Table 4**.

d. *Annual SWPPP Compliance Assessment*

A designated SWPPP team member will conduct an annual compliance assessment to ensure that the facility is complying with all requirements detailed in this SWPPP. All BMPs and E&S controls said to be in place will be inspected, adherence to the implementation schedule will be verified and a confirmation of an active employee training program will be made. An assessment report will be completed, and a copy of the assessment will be kept on record.

e. *Corporate Certification*

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Victor Vilece

Name

12/9/2022

Date

Chaney Enterprises

Company

Signature

Figure 1
General Vicinity Map



Figure 2
Facility Sketch of Existing Conditions



Table 1
EXISTING STORM WATER DRAINAGE AND DISCHARGE POINTS

DRAINAGE ZONE/ DISCHARGE POINTS	STORM WATER DRAINAGE DESCRIPTION	POTENTIAL POLLUTION	POTENTIAL PROBLEMS
<i>DZ-1</i>	Drainage flows to the center of this area due to grading. Here a series of large holding ponds collect the flow where it is used to supply the aggregate wash plant.	Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluids may leak from trucks and equipment. Improper loading may result in sediment discharge. Runoff from bulk material areas may result in excess sediment buildup.
<i>DZ-2</i>	Located between Sands Rd and the scale house, just north of DZ-1, drainage flows to the center of the mining area in this zone due to grading. From there it is pumped to the ponds in DZ-1 for use in the Aggregate wash plant.	Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluid may leak from trucks and equipment. Improper loading may result in sediment discharge. Runoff from bulk material areas may result in excess sediment buildup.
<i>DZ-3</i>	All drainage flows into a pond in the eastern portion of this zone. Located across the site entrance from Zones 2 and 3.	Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluid may leak from trucks and equipment. Improper loading may result in sediment discharge. Runoff from bulk material areas may result in excess sediment buildup.

Table 2
MATERIAL INVENTORY

TRADE NAME MATERIAL	PHYSICAL DESCRIPTION	STORM WATER POLLUTANTS
<i>Sand, Gravel</i>	Solid particles	Silicon, suspended solids, turbidity, sediment
<i>Hydraulic oil/fluids</i>	Brown oily petroleum hydrocarbon	Mineral oil
<i>Diesel Fuel</i>	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes
<i>Antifreeze/coolant</i>	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)

TABLE 3
SWPPP IMPLEMENTATION SCHEDULE

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
<i>Monthly facility inspections</i>	Ongoing
<i>Implementation of SWM Control Measure</i>	See TABLE 4
<i>Employee Training Program</i>	Date of environmental seminar: Winter/Annually General employee instruction: Ongoing
<i>Compliance Assessment</i>	Annually

TABLE 4
SWM CONTROL MEASURES IMPLEMENTATION SCHEDULE

FACILITY SITUATION	SWM CONTROL MEASURE	TARGET IMPLEMENTATION DATE
<i>Fueling Station</i>	Check for complete spill kit at fueling station	Checked during monthly inspection
	Inspect fuel/propane tanks and containment areas for cracks & leaks.	Checked during monthly inspection
<i>Equipment Inspections</i>	On-site vehicles and equipment will be thoroughly inspected for fluid leaks and other potential pollutants.	Checked on a daily basis.
	Preventative maintenance will be performed on a regular schedule.	Maintenance is performed on a monthly basis or as needed.
<i> Holding Ponds</i>	Water level is checked	Checked during monthly inspection
<i>General Housekeeping</i>	Aggressive enforcement of good housekeeping measures will be implemented.	Enforced on a daily basis.

APPENDIX B
EMERGENCY CONTACT INFORMATION

**IN THE EVENT OF A SPILL... CONDUCT THE
FOLLOWING STEPS:**

1. LOCATE SPILL KIT
2. CONTAIN SPILL
3. CONTACT CHANEY SAFTEY DIRECTOR

Chris McCoy
(240) 299-7172

4. CONTACT THESE AGENCIES

MDE 24 HR EMERGENCY SPILL HOTLINE
(410) 974-3551

NATIONAL SPILL RESPONSE CENTER
(800) 424-8802

APPENDIX C

SWPPP COMPLIANCE ASSESSMENT

SWPPP Feature	Y/N	Comments
Have monthly inspections been conducted and have form been completed and filed?		
Have daily pH readings been taken and have logs been completed and submitted to the Environmental Manager?		
Have BMP's been implemented and has the implementation schedule been adhered to?		
Has employee training been implemented?		
Has the Environmental Education Program been evaluated and forms filed?		
Have all changes to site function been addressed in the SWPPP?		
<div style="display: flex; justify-content: space-between;"> Name: _____ Date: _____ </div> <div style="margin-top: 10px;"> Signature: _____ </div> <div style="margin-top: 10px;"> Title: _____ </div>		