Seat Pleasant Ready Mix Concrete Facility
45 Yost Place, Seat Pleasant, MD 20743

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

In compliance with:

General Permit No. 15MM9865

National Pollution Discharge Elimination System (NPDES)

Prepared By:
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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 form industrial facilities. Development, proper implementation and dedicated monitoring of the SWPPP will allow the Seat Pleasant Ready Mix Concrete Facility [herein known as the Seat Pleasant Facility 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 Seat Pleasant Facility is located at 45 Yost Place, Seat Pleasant, Maryland 20743 and is within Prince George's County boundaries. The facility operates on a section of land within an industrial area off route 214. **Figure 1** is a general vicinity map of the area.

b. Site Description

The Seat Pleasant Facility is bordered by a wooded area and portions of a separate business park to the north while Yost Place borders the site to the south. A Commercial shopping plaza is adjacent to the east while Yost Place and a separate business operation lie to the west. An automotive recycling business is across the street.

On-site structures include a main office building, a storage/maintenance garage, small storage sheds, batch plant equipment, washout basins, settling basins, a recycled concrete storage area, vehicle parking areas and a fueling area. **Figure 2** is a facility sketch of existing conditions, illustrating pertinent on-site structures and includes approximant drainage zone locations, patterns of storm water drainage and locations of any discharge points (one on the NW corner of the property and the other at the entrance). The outfalls feed into the storm sewer and ultimately reach the Watts Branch.

c. Site Activities

The Seat Pleasant Facility is classified as a code 3273 under the 1987 Standard Industrial Classification (SIC) guild lines and as code 327320 under the 2002 North American Industry Classification System (NAICS). Normal operating hours are 7am to 5pm and there is an average of ten full-time employees on schedule with approximately ten trucks operating out of this facility on a regular basis.

d. Existing Drainage and Discharge Conditions

On-site drainage is controlled through a series of collection basins and a pH water treatment system is utilized to monitor and treat collected water. The site can be divided to create two main drainage zones, DZ-1 and DZ-2. **Figure 2** is a facility sketch of existing conditions that includes zone locations, patterns of storm water drainage and locations of any discharge. These are approximate locations based on a review of site conditions and an evaluation of mapping and aerial photos. A majority of site drainage flows east to west. Some water is recycled and used for future batching or used for truck washing, dust control, and aggregate cooling.

DZ-1 represents the southern portion of the site and includes the truck cleaning basin, truck parking, fueling station, aggregate piles, office, and shop/storage shed. Water from the aggregate bins, truck parking, and truck wash area flows down the driveway to a gutter drain that directs it to a storage tank for settling. Discharge Point 1 (DP-1) is in the basin adjacent to the site entrance. This is where process water is treated with a Hydron Innovations Treatment System before being recycled into the batch plant or used on-site.

DZ-2 represents the northern section of the site and includes the batch plant, driver's room and storage, sand and recycled concrete bins, truck washout and settling basins. Truck washout occurs in the northwest portion of DZ-2. After releasing excess concrete into the designated collection area, trucks release drum washout water into a primary basin. Upon initial solid settling, this water feeds into a second basin where it is then pumped into a large holding basin in the northwest corner of the site. Water is then pumped to the basin located adjacent to the site entrance in DZ-1. Discharge Point 2 is in the small holding basin in the northwest corner of the site.

Figure 2 is a facility sketch of existing conditions that depicts typical patterns of storm water drainage and locations of any discharge. Additional information about each drainage zone and discharge point can be found in **Table 1**.

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 are no records of any 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: This includes a loading system (hopper, conveyor and mixer) and is located adjacent to the facility office. Contamination may occur through leaking trucks and equipment or spills from overloaded trucks.
- Truck Washout Area: Contamination may occur in this area through an increase of pH in collected waters and potential for increased sediment build-up.
- Fueling Station: This area includes a fueling station in the western portion of the property. Contamination may occur in this area through improper fueling or leaking trucks and equipment.
- Office/Maintenance Garage: This building serves as a storage area for materials such as admixtures and general site materials and also contains the site office. Contamination may occur through fluid leaks from stored materials and excess runoff from the adjacent loading area.
- Washout/Settling Basins: This area is in the central region of the site and may cause overflow contamination if filled over capacity.
- Holding Basins: Located at the outfalls in both drainage zones and may cause overflow contamination if filled over capacity.
- Admixture/Truck Wash Chemical Storage: Several large tanks are stored onsite. They contain cleaners, detergents and concrete admixtures. Proper spill containment is implemented.
- Stockpile Materials: Several mounds of stockpile material (sand, stone, etc.) are located on site. 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 A**). This procedure and emergency contact information will be visible and readily available in the site office.

IV. Storm Water Management (SWM) Control Measures

This section will detail existing 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. Site Evaluation of Existing Control Measures

The following is a list of effective control measures that are currently in place at the Monumental Ready Mix Facility:

- Truck Washout Basins: Effective washout basins are in place in the Northeast corner and right in front of the truck loading area for truck washout and cleaning. Trucks release excess material in a designated area and then wash down drums and release that into a concrete basin that is regularly inspected and cleaned out.
- Holding/Treatment Basin: Water is pumped from the truck washout basins to the large holding basins in the northwest corner of the site.
- Hydro Innovations Water Treatment System: This system utilizes Carbon Dioxide and filters to treat process water so it can be recycled into the batch plant, used for dust control and aggregate cooling, or discharged from the site.
- Curb & Gutters/Catch Drains and Settling Basin: A series of curbs, gutters, and a drain strip along the site entrance direct drainage to appropriate treatment areas.

b. Implementation of Proposed SWM Control Measures

The following is a list of appropriate control measures that will be implement at the Monumental Ready Mix Facility:

- Fueling Station: The fueling station and propane tank will be inspected monthly for potential leak hazards and any changes will be implemented immediately. All trucks that use the fueling station are equipped with spill kits in the event of a spill.
- Truck Washout Basins: The existing washout and collection basins behind the driver's room will be inspected weekly for potential problems and appropriate measures will be taken to ensure they are functioning as designed.
- Treatment Basin: The existing collection and treatment basins located at DP1 will be inspected weekly for potential problems and appropriate measures will be taken to ensure they are functioning as designed.
- Hydro Innovations Water Treatment System: A third-party contractor will inspect and service the system monthly. System pH readings will be checked daily.
- Settling Basin: The existing basin located at the site entrance will be checked monthly for sediment buildup and appropriate measures will be taken to ensure it is functioning as designed.
- Material Storage: Any fluid canisters (truck oil, grease) housed on-site will be kept of out contact with storm water and will remain covered when not in use. Any partially used, bagged material will be transferred to a sealable container and properly labeled. Items such as brooms, dust pans, plastic gloves, absorbent material and extra sealable containers will always be on-site.

- Stockpiles: All stockpiles will be consolidated and employees will ensure that there is no sediment, sand/or aggregate leaving the appropriate holding areas. These areas will be inspected twice a day and re consolidated when needed.
- Equipment Inspections: Vehicles and equipment will be inspected for fluid leaks and any other potential pollutants to storm water. All vehicles and equipment will receive regular preventative maintenance to reduce the chance of fluid leakage.
- General Housekeeping: General good housekeeping measures will be implemented into a routine schedule to promote site compliance.
- Air Pollution: Dust suppression methods and regular sweeping will aid in minimizing air pollution that could originate from the site.

V. Facility Monitoring Plan

a. Routine Inspections

Routine inspections will be conducted throughout the site to decrease the likelihood of a potential pollution situation. The washout, treatment, and settling basins will be inspected by the SWPPP Coordinator monthly. The Hydro Innovations Treatment System will be checked daily for pH readings and water flow. A monthly check will ensure components are in good working order. The fueling station, storage areas, and all other pollution prevention implementations will be inspected monthly for cleanliness and effectiveness. Inspection forms will be completed and kept in the on-site file. A sample inspection form can be found in **Appendix B**.

b. Hydro Innovations Water Treatment System Monitoring

The Hydro Innovations Water Treatment System that is located at Discharge Point 1 (DP-1) will be inspected on a daily basis. The Plant manager or approved on-site personnel will ensure that the unit is turned on and is functioning correctly. The digital pH reading that is displayed will be recorded digitally in the Dispatch software. Carbon Dioxide tank refills will be scheduled as needed.

c. SWPPP Updates and Amendments

Any changes to operating conditions of the Seat Pleasant Facility that require modification of existing BMPs or implementation of new BMPs will be recorded in **Appendix D** of the SWPPP. 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 Seat Pleasant Facility 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:

• Lamont Hopkins	Area Production Manager	301-848-3285
• Donte Holley	Plant Manager	301-350-6622
• Gus Buttar	Safety Director	240-299-7172

VII. Compliance Requirements

a. On-site Record Retention

A copy of the most recently updated version of this SWPPP will be accessible online. Copies of completed inspection forms will also be kept online. Additionally, all employee training records and certifications shall be made readily available upon request.

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. Training will be completed online.

c. 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 inspection 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. A sample assessment form can be found in **Appendix C**.

d. 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

7/26/24
Date

Enviornmental Manager
Title

Victor John Vilece Jr
Singature

Digitally signed by Victor John Vilece Jr
DN: cn=Victor John Vilece Jr, o=Chaney Enterprises, ou, email=vvilece@chaneyenterprises.com, c=US
Date: 2024.07.26 17:18:50 -04'00'

FIGURE 1

GENERAL VICINITY MAP

FIGURE 2
FACILITY SKETCH

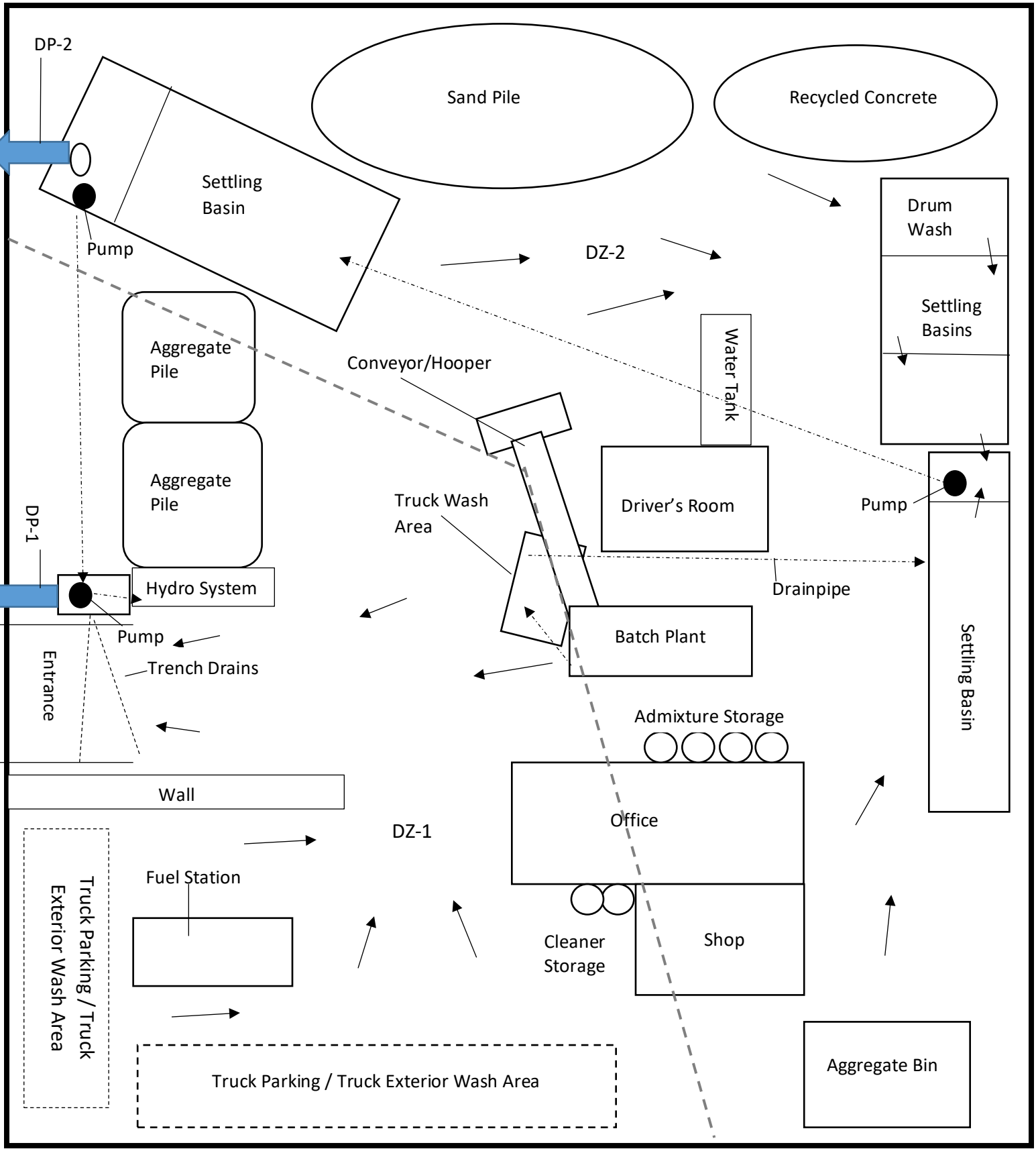

Table 1

EXISITING STORM WATER DRAINAGE AND DISCHARGE POINTS

DRAINAGE ZONE/ DISCHARGE POINTS	STORM WATER DRAINAGE DESCRIPTION	POTENTIAL POLLUTION	POTENTIAL PROBLEMS
DZ-1	Natural topography and a network of gutters, basins, pumps and hoses directs process water to the settling basin adjacent to the site entrance. There it is treated by the Hydro Innovations Treatment System and recycled in the batch plant and on-site.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluids may leak from trucks and equipment. High pH water may be discharged without being treated. Improper loading may result in sediment discharge. Overflow from collection basin may result.
DZ-2	Drainage from the aggregate stockpiles, recycle pile, and truck wash is collected and treated for TSS in a three (3) tier basin. It then flows into a small collection basin adjacent to the driver's building and is pumped to a large holding basin. From there process water is pumped to the basin adjacent to the site entrance.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Sediment, High pH Water	Diesel fuel/fluids may leak from trucks and equipment. High pH water may be discharged without being treated. Improper loading may result in sediment discharge. Overflow from collection basin may result
DP-1	This discharge point is located at the NW portion of the property and originates from the holding basins.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Propane, Sediment, High pH Water	Discharge water with high pH is the main concern in this area. Overflow from the loading area may cause release of excess sediment. Trucks release washout water that could potentially be discharged before being treated.
DP-2	This discharge point located in the settling basin adjacent to the site entrance.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Propane, Sediment, High pH Water	Discharge water with high pH is the main concern in this area. Overflow from the loading area may cause release of excess sediment. Trucks release washout water that could potentially be discharged before being treated.

Table 2

MATERIAL INVENTORY

TRADE NAME MATERIAL	PHYSICAL DESCRIPTION	STORM WATER POLLUTANTS
Cleaning Solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene, chloride, trichloroethylene, petroleum distillates
Waste Water	Clear or gray	Oil, grease, concrete
Concrete	White or gray solids	Limestone, sand
Sand, Gravel	Solid particles	Silicon, suspended solids, turbidity, sediment
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil
Gasoline	Colorless, plae brown pr pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates
Antifreeze/coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)
Polarset	Light green, clear liquid	Calcium Bromide, Calcium Nitrate, Diethyle Gycol, Methyldiethanolamine, Calcium Nitrite
Daracel	Blue liquid with turbidity	Naphthalenesulfonic acid, polymer with formaldehyde

TABLE 3

BMP INSPECTION SCHEDULE

BMP	SWM CONTROL MEASURE	TARGET IMPLEMENTATION DATE
Fueling Station	Spill Kit	Checked during monthly CEEIP inspection.
	Inspect fuel/propane tanks and containment areas.	Check for signs of leaks during monthly CEEIP inspection.
Treatment Basin	Inspect for sediment accumulation and effectiveness at settling out of solids.	Checked daily, pump sediments as needed.
Holding Basins	Inspect for sediment accumulation and effectiveness at settling out of solids.	Pump sediments from basin at site entrance every two months or as needed. Use loader to clean basins behind plant a minimum of once per month.
Gutter	Inspect for sediment accumulation.	Inspect daily, clean as needed.
Hydro Innovations Water Treatment System	Inspect that system is functioning properly. Check for flow of water and adequate CO2.	Inspect daily for functionality.
	CO2 Tank	Check rubber lines for leaks, and tank for CO2 level Daily when checking pH.
	Pump	Inspect daily and clean when needed.
Equipment Inspections	On-site vehicles and equipment will be inspected for fluid leaks and other potential pollutants.	Drivers and equipment operators will check daily during pre-trip inspections.
General Housekeeping	Enforcement of good housekeeping measures will be implemented.	Enforced daily.

APPENDIX A

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**

   Guss Buttar
   (240) 299-7172

4. **CONTACT THESE AGENCIES**

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

   NATIONAL SPILL RESPONSE CENTER
   (800) 424-8802

CHANEY
ENTERPRISES

Appendix B

I. General Information **CEEIP Inspection Form**

Facility:					Permit #:		
Date:		Time:		Weather:		Phone:	
Facility Address:					Site Manager:		
Inspector:							

II. Site Conditions SWPPP On Site: Yes ☐ No ☐ DMR's On Site: Yes ☐ No ☐

	Condition Range				Comments/Corrections Needed
	Great	Good	Fair	Poor	
E & S Control					
On-Site Storage					
Equipment/ Vehicles					
Roadways					
Air Pollution					
Discharge Monitoring	Discharging: Y / N pH:				

Additional Comments on Site Conditions:

III. pH Treatment System

	Questions	*Answer*
Washout/Settling Ponds	Have washout basins/ponds been cleaned recently?	
	What is the pH in the settling area w/handheld probe?	
pH Controller	What is the pH reading upon arrival?	
	What is the Hi limit reading?	
	What is the Lo limit reading?	
Mixing	How much CO2/Sodium bisulfate is in the tank?	
	Does additional chemical need to be added/ tank filled?	
	Were site personal informed?	
pH Probe	Is probe covered in residue and dirty?	
	Was probe cleaned with cleaning solution?	
	What are readings before/after calibration with solution 7.0?	
	What are readings before/after calibration with solution 10.0?	
Piping	Is intake piping functional?	
	Is discharge piping functional?	

Site Corrections:

Due Date:

Days	1wk	2wk	3wk
☐	☐	☐	☐

Sign: _____

Comments on pH System Conditions:

Inspector

Name: _____ Signature: _____ Date: _____

APPENDIX C
SWPPP COMPLIANCE ASSESSMENT

SWPPP Feature	Y/N	Comments
Have monthly CEEIP 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 inspection schedules been followed?		
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?		

Name:_____ Date:_____

Signature:_____

Title:_____

APPENDIX D

SWPPP MODIFICATIONS

Date	Comments	Signature
June 14, 2018	Appendix G added; SWPPP Task Force Team Members revised to reflect current staffing.	VJV
March 2, 2020	Changes to Figure 2: Second trench drain added to driveway, DP2 marked as closed.	VJV
July 26, 2024	Changes to the drainage zones made throughout the document to reflect changes to site conditions *Section II Part d*. New water treatment system installed *Section V. Part b.* SWPPP Task Force Team Members revised to reflect current staffing *Section VI. Part c*.	VJV