

VBS HARRISONBURG

Environmental Plans and Procedures

OMM and SWPPP

Permit # VAG110309

210 Stone Spring Rd. Harrisonburg, Va. 22801

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OMM

O&M practices for wastewater treatment

Process water is not generated on this site.

Chemical and material storage

Admixtures are used in block production occasionally, when used they are stored inside the block plant.

The fueling tank is in the Fueling Area in secondary containment.

Truck lubricantsⁱ are stored in the Maintenance Shop Area which would provide containment.

Stone and Sand piles are maintained in 3 wall bins to reduce carry off.

Cement and Flyash are stored in silos.

Methods for estimating process wastewater flows

Process water is not discharged from this site, so no flow is estimated.

Solids management and disposal procedures

Solids come from block production.

Solids from Block Production are stored in a dump truck and disposed of off site once the truck is full. A 3 wall bin is available and used for storage when a dump truck is not available. When a truck becomes available, it is loaded with a front end loader and disposed of off site.

Temporary and long-term facility closure plans

The site, if operating infrequently, will have personnel at the facility from time to time to check the condition of the site.

In the event of a long term closure,

- The materials would be moved to another Allied Concrete site.
- Facility would be secured to prevent unauthorized access.

Testing requirements and procedures

Quarterly visual monitoring and Annual DMRs are required.

The DMR sample is taken within the first 30 minutes of discharge from Outfall 001ⁱⁱ, 002, and 003 using a sample containerⁱⁱⁱ; a pH reading^{iv} is taken and recorded immediately using a temperature compensating pH meter^v. The sample is then stored in a cooler with ice and transported to the lab to be tested for TSS. These findings along with flow calculation^{vi} are recorded on the DMR and sent into DEQ on an annual basis.

QV monitoring is taken within the first 30 minutes of discharge, the sample is checked for clarity, odor, color, floating solids, settled solids, suspended solids, foam, oil sheen, and other indicators of storm water pollution. Also any probably sources of storm water contamination will be recorded.

Recordkeeping and reporting requirements

The Quarterly Visual Sample is taken once per quarter during a qualifying storm event by the Team Leader. The results are recorded on the QV Form and kept with this plan

Quarterly Site Inspections are conducted once each quarter by the Team Leader. Once per year this inspection should be conducted during a qualifying storm event. Results are recorded on the QI form and kept with this plan.

Annual Compliance/Unauthorized Discharge Evaluations are conducted once per year by the Team Leader. Results are recorded on the Annual Comp Eval form and the Unauth Discharge Eval form and kept with this plan.

DMR samples are taken once per year during a qualifying storm event by the Team Leader. The sample data is recorded on the DMR Sample Log, and a Chain of Custody is completed for it to be delivered to the Lab^{vii}, and the Flow Calculation Spreadsheet is used to calculate flow^{viii}. Once the results return a DMR form (from the permit) is completed and sent into DEQ no later than the 10th of January. All documents are kept with this plan.

Any person sampling will have completed an Initial Demonstration of Capability for pH, the results of which are kept with this plan.

Annual Thermometer Calibration Records are kept with this plan.

Training records and training outline are kept with this plan.

Duties and roles of responsible officials

The records and sampling will be completed by the environmental team designated in the SWPPP.

SWPPP

Pollution Prevention Team

Team Leaders:

Barry McNeal (540) 975-4500	VBS-Harrisonburg Safety Director
Pete Hawes (540) 480-2763	ACC- Safety Director
Clay Hubbard (434) 249-2213	Operations Manager
BJ Barbrow (540) 718-4862	Safety/Environmental Manager

Team Leader Responsibilities

The Team Leader is responsible for overall content and implementation of the SWP3. Potential non-compliance areas or concerns are presented to the team leader by other team members. The Team Leader will ensure that changes to facility drainage, exposed materials, spill response, pollution control measures, inspections and training are incorporated into the plan.

Team Members: Valley Building Supply employees

Team Member Responsibilities

Team members will responsible for implementing and following the procedures outlined in this plan. This includes checking site condition, reporting any spills or releases with a potential to pollute storm water, directing and performing any housekeeping tasks, and report to the Team Leader any permit compliance issues or recommendations for improved BMPs.

Potential Pollutant Sources

Activity	Potential Pollutant	BMPs
Truck Maintenance	Lubricants, Fluids ^{ix} , Parts	Maintenance is performed in designated area, and area cleaned as needed. Scrap parts are stored in a metal bin with is emptied for recycling when full.
Vehicle Cleaning	Detergents, Fluids ^x , Solids	Vehicle Cleaning is performed in the Shop area in a bay that captures all wash water and potential pollutants. When the holding tank is near full Safety Kleen is called to pump it out.
Filling Bins/Unloading aggregates	Natural Sand, Crushed Stone, Manufactured Sand	Aggregates are unloaded to aggregate holding areas, and materials are pushed into piles. Bin filling operations use a front end loader. The bucket should be filled and excess shaken off at the pile. The areas around inlets 3 & 4 will be checked daily and cleaned as needed to minimize sediment exposure to storm water, but no less than once a week.
Block Production	Cement, Aggregates, Admixtures	Block production occurs indoors where it is not exposed to storm water
Unloading to Silo	Cement, Fly Ash	Silos are filled with a pipe that leads to the top of the silo. A tanker connects to this with a flexible rubber hose. The dust collector on the silo allows venting while filtering out any potential dust. The person unloading the tanker is responsible for ensuring that all dust filtration systems are operating properly during the unloading process.
Fueling	Diesel	Fueling occurs at the fuel pump in the fueling area. Employee is to monitor the fueling to prevent overfill

Draining Containment	Diesel	There is a locked drain valve to release any storm water. The water is checked for any contamination before release, and monitored during discharge, and then relocked when complete.
Sand bagging	Sand	The hopper area will be cleaned as needed to minimize sediment exposure to storm water, but no less than once a week.

Spills and Leaks

No significant spills or leaks have occurred on this site.

Preventative Maintenance

Silo dust collectors are checked monthly by maintenance personnel, and if any onsite employee notices maintenance needed they will report it to a team member.

Spill Prevention and Response Procedures

Chemicals that have the potential for spilling are stored in secondary containment as outlined in Chemicals and material storage in the OMM portion. If a spill were to occur, sand would be used to control any spilled chemicals. It would then be disposed of according to the manufacturer's recommendation, and in compliance with local ordinances. . In the event of a spill contact:

Barry McNeal (540) 975-4500 VBS-Harrisonburg Safety Director

Pete Hawes (540) 480-2763 ACC- Safety Director

Clay Hubbard (434) 249-2213 Operations Manager

BJ Barbrow (540) 718-4862 Safety/Environmental Manager

Facility Inspections

Facility Inspections are done quarterly. Any deficiencies noted from these inspections are documented^{xi}, brought to the attention of the rest of the team, and taken care of in a timely manner.

Employee Training

Employee training on the permit and this plan is conducted annually for Valley Building Supply employees.

Sediment and Erosion Control/Management of Runoff

Outfall 001 is a rocky area where erosion is found to not be an issue. Regular housekeeping in areas where materials are exposed to storm water is used to minimize sediment carry off. The aggregate piles will be pushed up as loads come in. Impervious areas, excess material from plant filling operations, and the sand loading hopper area will be cleaned/swept as needed, no less than once a week.

Outfall 002 is in the catch basin that receives water from Inlet 1B and 2B as well as the Block Plant roof drains. No erodible surfaces are present. The areas around inlets 3 & 4 will be checked daily and cleaned as needed to minimize sediment exposure to storm water, but no less than once a week.

Outfall 003 is located between the rear fence and fuel tank containment area. The area is monitored during quarterly inspections for signs of erosion. Paved areas are checked weekly to see if sweeping is required.

Comprehensive Site Compliance

Comprehensive site compliance evaluations will be conducted annually by the Environmental Team Leader. Results of the evaluation as well as the results of the Annual sample lab results will be shared with the team, for any deficiencies found a plan of action will be determined and documented^{xii} (along with a time frame for correction) with the evaluation.

ⁱ Hydraulic Oil, Grease, Motor Oil, Gear Oil

ⁱⁱ Ditch on the SW side of the facility. Sample point is marked on the site map. Below Fire Hydrant.

ⁱⁱⁱ 1L Plastic Container

^{iv} Standards Method 4500-H+B-201~~99~~

^v Oakton pHTestr30 (S/N 1309464) Thermometer calibrations are done annually. Results are available with this plan.

^{vi} Drainage area acreage and impervious factor is estimated and used with the precipitation amount to calculate flow.

^{vii} EnviroCompliance Laboratories in Verona, Va.

^{viii}
$$\frac{(((0.65[\text{Impervious Factor}] * 135,036[\text{Total Area}[\text{ft}^2]]) * \text{Rainfall}[\text{ft}]) * 7.48[\text{convert to gallons}])}{1000000[\text{convert to MGD}]}$$

^{ix} Hydraulic Oil, Grease, Motor Oil, Gear Oil

^x Hydraulic Oil, Grease, Motor Oil, Gear Oil

^{xi} Corrective Action Form

^{xii} Corrective Action Form