OPERATIONS AND MAINTENANCE MANUAL
FOR
VPDES PERMIT VAG110351

GAINESVILLE RMC FACILITY
14505 LEE HIGHWAY
GAINESVILLE, VIRGINIA 20155
January 2019

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1. Introduction

a. Site Overview:

Gainesville RMC Facility is located at 14505 Lee Highway, Gainesville, VA. See Figure 1 for location map identifying the property, the buildings, treatment system, outfall location, and receiving stream. The facility produces concrete and stores sand and gravel for use in the ready-mix concrete batching operations. There is a 4 tier settling basin located on site. There is one diesel storage tank on site as well as a water storage tank. There is also a batch office trailer and storage container on site.

b. Emergency Contacts:

Business Office Location: 2410 Evergreen Rd., Suite 201
Gambrills, MD 21054

Primary Emergency Contact

Name:	Chris McCoy
Title:	Safety Director
Cell:	(240) 299-7172
Email:	cmccoy@chaneyenterprises.com

Secondary Contact

Name:	Jeff Slagle
Title:	Concrete Ops. General Manager
Cell:	(540) 710-0075
Email:	jslagle@chaneyenterprises.com

Name:	Victor Vilece
Title:	Assistant Project Manager/Land
Cell:	(301) 861-6094
Email:	vvilece@chaneyenterprises.com

State Agency:

Virginia Dept. of Environmental Quality
(804) 698-4000
Specific Contact: Rebecca Vice
Title: Compliance Auditor
Office Number: 1-800-332-6542
Cell/Direct: (703) 583-3922

Federal Agency:

National Response Center
(800) 424-8802

Medical:

Prince William Medical Center
(703) 369-800

Sheriff:

Prince William County Sheriff's Office
(703) 792-6070

2. Description of Potential Discharges and Treatment Facilities

From the process of batching concrete, washing truck exteriors and drums, dust suppression, and watering aggregates, a waste consisting of small amounts of solids (mud, sand, clay, and gravel) and chemicals used in batching concrete is generated. Saddle tanks on the mixers are filled with potable water used to wash down the truck exterior and chute before leaving the site, and add to the drum as needed. Flow is provided by a garden style hose attached to the mixer's saddle tank.

Process and storm water are directed to a four (4) tier settling basin via grading. All water is treated for elevated pH levels in the fourth basin. Discharge Point 1 (**DP 1**) originates from the fourth and final basin. Monitoring occurs at DP1. See **Appendix A** for a diagram of the site and location of the Discharge Point.

3. Maintenance

a. Routine Maintenance schedules:

Settling basins are inspected daily for sediment accumulation. A loader is used to clean out the settling basins when they are approximately half full of sediments or before known storm events. The treatment system is checked twice a day. The pump for the pH treatment system is checked daily and cleaned if needed. There is a dumpster on-site that is emptied weekly.

b. Material Handling/Storage

All chemicals kept on-site are stored in a sea container or storage tanks. Chemicals will be stored in properly sealed and labeled containers. All containers will be kept under cover, away from site traffic, and out of contact with storm or process waters.
See **Appendix B** for Material Safety Data Sheets for all chemicals stored on-site.

4. Spill Management Procedures

a. Spill Containment/Storage

All spills, including spills from fuel, oil, coolant, transmission/hydric fluid, truck wash, add mixtures, or concrete are cleaned up as soon as they are noticed with dry methods and disposed of such that no discharge to state waters except as authorized by VAG110351 occurs. In the event of a spill we use ACE Environmental Services, LLC or a similar certified environmental clean up specialist to remove all contaminated material to be disposed of properly off-site. No contaminated materials will be stored on-site.

b. Material Handling/Storage

All truck wash and add mixtures are stored in sealed and properly labeled containers in the garage under the batch office or in totes next to the batch office. Fuel is stored in a double walled fuel tank located adjacent to the truck repair shop and all other vehicle fluids, oil, coolant and transmission fluid/hydric fluids, are also stored in the garage under the batch office.

5. Effluent Monitoring Requirements

a. Authorized Samplers

Victor Vilece	Environmental Project Manager	301-861-6094

b. Sampling Procedure

Discharge samples will be collected by Chaney's Authorized Samplers (listed above). They will collect pH samples and analyze within 15 minutes on site. Samples for TSS reporting are collected, preserved, and analyzed by AMA Analytical Services 4475 Forbes Blvd, Lanham, MD 20706, in accordance with the Code of Federal Regulations (CFR) 40 CFR Part 136 or Alternative methods. Samples will be taken, by Chaney Staff, to an accredited lab for analysis.

Samples are collected a minimum of once every three months if there is a discharge to sample. Samples shall be collected by March 31, June 30, September 30, and December 31 of each year and reported on the facility's Discharge Monitoring Report (**Appendix E**) and submitted to DEQ at the Northern Regional Office 13901 Crown Court, Woodbridge, VA 22193. DMRs shall be submitted by January 10, April 10, July 10, and October 10 of each year. A minimum of one grab sample shall be taken resulting from a storm event that results in an actual discharge from the site. Flow is estimated as gallons per day. If

no discharges occur in the three-month period, the DMR will have "No Discharge" written upon it.

6. Personnel

All reports shall be signed and dated by a signatory authority per Part III K 2 of the permit. The following indicates the authorities of plant personnel:

Kyle Murray – Land General Manager and permit holder. Has direct contact to DEQ.
Victor Vilece – Environmental Project Manager – develops operations and maintenance (O&M) manual with input from operator. Reviews O&M annually with input from operator. Monitoring coordinator (contact lab, conducts sampling), fills out and signs DMR and has direct contact to DEQ.
Jim Decostanzo – Plant Manager – direct contact to DEQ. Notifies Environmental Project Manager if O&M manual needs to be revised, conducts sampling during storm events, enforces BMPs at plant site.

7. Records

All records for facility maintenance, inspections, and sampling and testing, shall be maintained for a minimum of three years and shall be available for inspection by the owner, manager, and DEQ upon request.

8. SWCB Permits or Certificates

A copy of VPDES Permit #VAG110351 is included in **Appendix D** of the manual.

9. Closure Plan

a. *Treatment and removal of wastewater, storm water, and solids.*

All wastewater and storm water will be treated before being discharged from the site. All discharge will occur through DP1 as shown in Appendix A. Water that cannot be treated to compliance with the VPDES regulations will be removed from the site by a contractor and disposed of at the proper facility. Hardened residual concrete materials will be shipped off site for crushing and sale.

b. *Fate of structures.*

At the end of the operations all structures will be removed from the site.

c. *Removal Plan for all exposed industrial materials.*

All exposed industrial materials will be stored and recycled at the appropriate recycling facility.

d. *Description of the stabilization of land in which exposed industrial materials were stored or placed.*

No exposed industrial materials will be stored on site.

10. 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

1/2/19
Date

Environmental Project Manager
Title

Signature

Appendix A
Location Map

Appendix B
Material Inventory

TRADE NAME MATERIAL	PHYSICAL DESCRIPTION	STORM WATER POLLUTANTS
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
Antifreeze/coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)

All Material Safety Data Sheets can be found at www.chaneyenterprises.com

Appendix C
Maintenance Log

pH Treatment System			Treatment Basins		
Inspected Date	Cleaned Pump	Comments	Inspected Date	Cleaned Date	Comments

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Chesapeake Enterprises, LC Gainesville RMC Plant

ADDRESS P.O. Box 2000

Gainesville VA 20155

FACILITY LOCATION 4505 Tod Rd

Gainesville VA 20155

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
CONCRETE PRODUCTS FACILITIES
DISCHARGE MONITORING REPORT(DMR)

VAG110681	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
			TO			

FROM

12/07/2010

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Northern Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				**********	**********	**********				
	REQUIREMENT	NO	NI	MGD	**********	**********	**********			1/2W	RST
003 pH	REPORTED	**********	**********			**********					
	REQUIREMENT	**********	**********		6.0	**********	9.0	SU		1/2W	GRAB
001 TSS	REPORTED	**********	**********		**********						
	REQUIREMENT	**********	**********		**********	30	60	MG/L		1/2W	GRAB

DEQ Comments:

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(MG)	TOTAL BOD5(LB)

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 GATHER AND EVALUATE 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 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.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

Appendix D
Discharge Monitoring Report Form