



COMMONWEALTH of VIRGINIA

Molly Joseph Ward
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
3019 Peters Creek Road, Roanoke, Virginia 24019
(540) 562-6700; Fax (540) 562-6725
www.deq.virginia.gov

David K. Paylor
Director

Robert J. Weld
Regional Director

JUN 28 2017

RECEIVED
JUN 28 2017
REGION 2000
SERVICES AUTHORITY

Mr. Robert Arthur
Environmental Compliance & Safety Manager
361 Livestock Road
Rustburg, VA 24588

Re: Industrial Stormwater CEI Technical, Laboratory, Storm Water Inspections, and Evaluation of the Storm Water Pollution Prevention Plan (SWPPP)
Region 2000 Service Authority-Livestock Road- Campbell Co Landfill
VPDES General Permit No. VAR051994

Dear Mr. Arthur:

Attached for your review are copies of the technical, laboratory, and storm water inspections for the Region 2000 Service Authority-Livestock Road Campbell Co Landfill facility. I conducted the inspections on May 31, 2017.

With regard to the technical portion of the general permit inspection, there is one request for action regarding the **elimination of Outfall PS004** - see detailed entry on Page 3 of this report. We request that you respond to this office **within 15 days** on the request and provide details of actions taken and/or proposed to correct the item.

With regard to the laboratory records evaluation portion of the general permit inspection, there is one request for action detailed in the summary section on page 6 of the laboratory inspection report. We request that you respond to this office **within 15 days** on the request and provide details of actions taken and/or proposed to correct the deficiency

This letter is not intended as a case decision under the Virginia Administration Process Act, VA Code §2.-4000 *et seq* (APA). If you have any questions regarding these reports, please contact me at the Blue Ridge Regional Office, Roanoke (540-598-0453).

Sincerely,

Stephanie L. Bowman
Water Compliance Inspector Senior

Attachments

Copies: file
S. C. Hale, - DEQ/BRRO, Roanoke

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY VPDES STORM WATER FACILITY INSPECTION REPORT

Blue Ridge Regional Office-Roanoke
Multi-Media Inspection

FACILITY NAME:	Region 2000 Service Authority-Livestock Road Campbell Co Landfill	PERMIT NO.:	VAR051994		
FACILITY ADDRESS:	361 Livestock Road Rustburg, VA 24588				
FACILITY REPRESENTATIVE:	Robert Arthur- Environmental Compliance & Safety Manager Larry Hall-Operations Manager	CONTACT INFORMATION:	434-455-6078 rarthur@region2000.org		
INDUSTRIAL SECTOR:	LF- Landfill	SIC CODE(S):	LF		
INSPECTOR:	Stephanie Bowman <i>slb</i> Doug Foran, DEQ-Solid Waste Inspector Jennie Poland, DEQ-Solid Waste Permit Writer	INSPECTION DATE:	05/31/17 08:50-13:10	ANNOUNCED? (Y or N)	N
Multi-Media Inspection Review: <i>slb</i>					

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Does the facility have a SWPPP on site (Y or N)?	Y	Is the SWPPP being implemented (Y or N)?	Y
Dated 12/15/2014			

SWPPP REVIEW

ELEMENT ADDRESSED IN SWPPP?	(Y or N)	NOTES
Site location and drainage map	Y	
Outfalls and receiving waters	Y	
SWPPP implementation team	Y	
Material storage and inventory	Y	
Maintenance, loading, disposal, etc.	Y	
Pollutant sources	Y	
Title III Section 313 chemicals	N/A	
Non-storm water discharges	Y	
Best Management Practices (BMP)	Y	
Good housekeeping	Y	
Storm water inspection reports	Y	Weekly & Monthly site inspections
Spill/leak prevention and response	Y	
Sediment erosion control and runoff	Y	
Employee training	Y	1-26-17

Certification statement	Y	12-19-14
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Facility Name: Region 2000 Service Authority-
Campbell Co Landfill
Stormwater Inspection Report - Page 2

DISCHARGE MONITORING

	(Y, N, or N/A)	NOTES
Does permit contain effluent limitations (Part 1 B)?	Yes	pH, BOD, TSS, ZN, N, A, B, Phenol, P Cresol
Is analytical monitoring required (Part 1 C)?	YES	
• DMR(s) submitted?	Yes	
• DMR(s) completed?	Yes	
Is quarterly visual monitoring required?	Yes	
• Reports complete?	Yes	
• Reports maintained onsite with SWPPP?	Yes	
Are proper monitoring procedures followed?	Yes	

MONITORING RECORDS

REQUIRED DOCUMENTATION?	(Y, N, or N/A)	NOTES
Date, exact place, and time of monitoring	Y	
Individual(s) who performed monitoring	Y	
Storm event information	Y	
Date(s) and time(s) of analyses	Y	
Individual(s) who performed analyses	Y	
Analytical techniques/methods used	Y	
Results of analyses	Y	

INSPECTIONS

	(Y, N, or N/A)	NOTES
Are site inspections conducted at required frequency?	Y	
Are site inspections documented?	Y	Monthly and weekly site inspection documentation

Annual Site Compliance Evaluation (Part III E.) 10-24-16

- Are all areas of industrial materials or activity exposed to storm water and areas of previous spills/leaks included in the inspection?
 YES NO NOTES: _____
- Are the "Results of both visual and any analytical monitoring done during the year taken into consideration during the evaluation"?
 YES NO NOTES: _____
- Based on the results of the inspection, was the SWPPP modified as necessary (additional controls shown on the map, description of controls revised to include additional or modified BMPs designed to correct identified problems)?

OUTFALL OBSERVATIONS

Outfall #	Condition of Effluent	Condition of Receiving Stream	Samples Collected (Y or N)
#002	Clear Discharge	No sediment or discoloration	N
#003	No Discharge	No problems noted with outfall	N
#004	No Discharge	N/A	N

OUTFALL DISCUSSION:

#002: This outfall is associated with stormwater flow from the active cell, maintenance shop, public convenience center and the access road. The Sediment Basin-SB-1 is north of the Phase 3 disposal area. There was discharge at the time of the inspection from the basin into the unnamed tributary of Tussocky Creek. The concrete headwall was in good condition and the outfall was easily assessable and marked.

#003: This outfall is associated with stormwater flow from the Detention Basin (Leveling Basin) below the office and scales. Flow is then dispersed as sheet flow across rip rap. There was no discharge at the time of the inspection.

#004: Discharges into retention basin #2 associated with outfall 002 and is no longer an individually monitored location. This was a construction sediment basin for the future landfill cell. *This outfall should be deleted from the permit as described in Part I.B.II of the permit. The permittee updated the SWPPP however, DEQ was not aware of the change. The notification shall contain an updated site map. Submit this update to Kevin Harlow, DEQ, 3019 Peters Creek Road, Roanoke, VA 24019.*

DESCRIPTION AND EFFECTIVENESS OF BMPs/CONTROLS USED ON SITE:

1. The staff appears to promote good housekeeping throughout the site.
2. At the time of the inspection, the outfalls were clear of sediment or any indication of a previous bypass of process or stormwater.

Requests for Corrective Actions:

1. Amend the contact page in the SWPPP with the phone number for the Blue Ridge Region Office in Roanoke, Va. 540-662-6700. *On 06/09/17, DEQ received an email from the facility that these corrections had been made in the SWPPP.*

COMMENTS:

1. The facility maintains a 224,700 gallon leachate double walled AST which pumps the contents directly into the sewer system for the Lynchburg WWTP.
2. The facility maintains a 10,000 gallon diesel AST at the maintenance shop for onsite fueling. The housekeeping was good and a spill kit was located in this area. There was no observed petroleum staining at the fuel station.
3. The maintenance shop floor is sloped to direct any spills to a drain that sends any contaminated water to an underground oil water separator tank where the fluids are pumped out twice a year by WEL.
4. There were no improperly stored drums or batteries observed at the maintenance shop or at the active cell.
5. The inspectors did not observe any evidence of sediment by-passing the retention basins or access solids along the receiving stream. The site was very well maintained.
6. The deodorizing equipment was in working order at the time of the inspection.

**DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION
LABORATORY INSPECTION REPORT**

11/2014

PERMIT #: VAR051994	INSPECTION DATE: 05/31/17	PREVIOUS INSP. DATE: 9/25/13	PREVIOUS EVALUATION: No Deficiencies	TIME SPENT: 13 hours w/ travel & report
NAME/ADDRESS OF FACILITY: Region 2000 Service Authority Livestock Road-Campbell Co Landfill 361 Livestock Road Rustburg, VA 24588		FACILITY CLASS: () MAJOR () MINOR (X) MINOR (Small) () VPA	FACILITY TYPE: () MUNICIPAL (X) INDUSTRIAL () FEDERAL	UNANNOUNCED INSPECTION? (X) YES () NO FFY-SCHEDULED INSPECTION? () YES (X) NO
INSPECTOR: Stephanie Bowman, Doug Foran & Jenny Polard, DEQ Solid Waste Division		REVIEWER: Sam Hale	PRESENT AT INSPECTION: Robert Arthur, Larry Hall	

LABORATORY EVALUATION	DEFICIENCIES?	
	Yes	No
LABORATORY RECORDS		X
GENERAL SAMPLING AND ANALYSIS		X
pH PROCEDURE	Y	

VELAP CERTIFICATION (on site Environmental Laboratory)	Yes	No
Does the laboratory have VELAP certification (interim or final)?		N/A
- Document the laboratory's VELAP laboratory number:		N/A
- Document the effective date of the VELAP certification:		N/A
- Document the expiration date of the VELAP certification:		N/A
- List the certified parameters:		N/A

VELAP ACCREDITATION (Commercial Environmental Laboratory)	Yes	No						
IS A VELAP ACCREDITED LAB USED FOR OTHER PERMIT REQUIRED ANALYSES? VELAP#, LAB NAME, ADDRESS and LIST PARAMETERS:								
<table border="1"> <tr> <th>VELAP #</th> <th>LAB NAME</th> <th>PARAMETERS</th> </tr> <tr> <td>460025</td> <td>Pace Analytical - Eden, NC</td> <td>TSS, BOD₅, Zn, Ammonia as N, Alpha-Terpineol, Benzoic Acid, Phenol, P-Cresol, ChesBay-TSS, N, P</td> </tr> </table>	VELAP #	LAB NAME	PARAMETERS	460025	Pace Analytical - Eden, NC	TSS, BOD ₅ , Zn, Ammonia as N, Alpha-Terpineol, Benzoic Acid, Phenol, P-Cresol, ChesBay-TSS, N, P	Yes	
VELAP #	LAB NAME	PARAMETERS						
460025	Pace Analytical - Eden, NC	TSS, BOD ₅ , Zn, Ammonia as N, Alpha-Terpineol, Benzoic Acid, Phenol, P-Cresol, ChesBay-TSS, N, P						
IF PERMIT REQUIRED SAMPLE ANALYSIS IS PERFORMED AT ANOTHER LOCATION, ARE SHIPPING PROCEDURES ADEQUATE?	Yes							

COPIES: (X) DEQ - RO; (X) Owner, () Other:

LABORATORY RECORDS SECTION

LABORATORY RECORDS INCLUDE THE FOLLOWING:

<input checked="" type="checkbox"/>	SAMPLING DATE	<input checked="" type="checkbox"/>	ANALYSIS DATE	<input type="checkbox"/>	CONT MONITORING CHART
<input checked="" type="checkbox"/>	SAMPLING TIME	<input checked="" type="checkbox"/>	ANALYSIS TIME	<input type="checkbox"/>	INSTRUMENT CALIBRATION
<input checked="" type="checkbox"/>	SAMPLE LOCATION	<input checked="" type="checkbox"/>	TEST METHOD	<input type="checkbox"/>	INSTRUMENT MAINTENANCE
				<input checked="" type="checkbox"/>	CERTIFICATE OF ANALYSIS

WRITTEN INSTRUCTIONS INCLUDE THE FOLLOWING:

<input checked="" type="checkbox"/>	SAMPLING SCHEDULES	<input type="checkbox"/>	CALCULATIONS	<input checked="" type="checkbox"/>	ANALYSIS PROCEDURES
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	YES	NO	N/A
DO ALL ANALYSTS INITIAL THEIR WORK?	X		
DO BENCH SHEETS (or LOG BOOK) INCLUDE ALL INFORMATION NECESSARY TO DETERMINE RESULTS?	Y		
IS THE DMR COMPLETE AND CORRECT? LIST MONTH(S) REVIEWED: <u>01/01/17 to 06/30/17</u>	X		
ARE ALL MONITORING VALUES REQUIRED BY THE PERMIT REPORTED?	X		
DOES CHAIN OF CUSTODY DOCUMENT PROPER SAMPLE PRESERVATION WAS MET? <u>3.4°C & pH readings for acid preservation</u>	X		
WHEN THE CERTIFICATE OF ANALYSIS CONTAINS FLAGGED DATA IS THE 'FLAG' REPORTED ON THE DMR?			X

GENERAL SAMPLING AND ANALYSIS SECTION

	YES	NO	N/A
ARE SAMPLE LOCATIONS ACCORDING TO PERMIT REQUIREMENTS?	X		
ARE PERMIT REQUIRED SAMPLE COLLECTION PROCEDURES APPROPRIATE?	X		
ARE EFFLUENT SAMPLES REPRESENTATIVE OF THE MONITORED ACTIVITY?	X		
ARE PERMIT REQUIRED COMPOSITE SAMPLES FLOW PROPORTIONAL? NOTE: Equal volume composite aliquots are acceptable <i>if the instantaneous flow is within ± 10% of the daily average flow during the monitoring period</i> . Some permits specify how the composite is to be taken (e.g., 5G/8HC).			X
IS COLLECTION SAMPLE EQUIPMENT ADEQUATE?			X
IS FLOW MEASUREMENT ACCORDING TO PERMIT REQUIREMENTS?	X		

**DEPARTMENT OF ENVIRONMENTAL QUALITY – WATER DIVISION
LABORATORY INSPECTION REPORT SUMMARY**

ACILITY NAME:	Region 2000 Service Authority- Livestock Road-Landfill	Permit #:	VAR051994	INSPECTION DATE:	05/31/17
LABORATORY EVALUATION		X	No required actions at this time		
			REQUIRED CORRECTIVE ACTION(S) IDENTIFIED		
SUMMARY of REQUEST FOR CORRECTIVE ACTION					
Lab Records					
Laboratory Records section deficiency and required action: None					
General Sampling and Analysis					
General Sampling and Analysis section deficiency and required action: None					
pH Analysis					
pH deficiency and required action:					
<ol style="list-style-type: none"> 1. Samples are reportedly measured "in situ". <i>This must be documented with the results to demonstrate analysis is within the required holding time.</i> 					
OTHER – Comments or Observations					
None					

DEPARTMENT OF ENVIRONMENTAL QUALITY BLUE RIDGE REGIONAL OFFICE, ROANOKE
 EQUIPMENT TEMPERATURE LOG/THERMOMETER VERIFICATION CHECK SHEET
 11/2014

FACILITY NAME:	Region 2000 Service Authority-Livestock Road	PERMIT NO:	VAR051994	SAMPLE DATE:	02/15/17		
EQUIPMENT	Preservation Range	In Range?	Inspector Reading	Checked & Logged Daily?	Correct Increment?	ANNUAL THERMOMETER VERIFICATION	
						DATE CHECKED	MARKED
		Yes No	°C	Yes No	Yes No	Yes	
NIST TRACEABLE	± 0.01 °C	Y	1-30-17	Y	Y	0°C	°C
pH METER	± 1 °C	Y	2/15/17	Y	Y	0°C	°C

PROBLEMS: None observed

DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION
SAMPLE ANALYSIS HOLDING TIME/CONTAINER/PRESERVATION CHECK SHEET

Revised 02/2015 (40 CFR, Part 136.3, Table II)

FACILITY NAME:		Region 2000 Service Authority-Livestock Road		VPDES NO	VAR051994	DATE:	2/15/17	
HOLDING TIMES (Note: Collection period (for composites) and Sample Collection time (end of collection period) must be recorded on the COC.)		SAMPLE CONTAINER			PRESERVATION (Note: Preservation is to occur within 15 minutes of the end of the collection period.)			
PARAMETER	APPROVED	LOGGED?		ADEQ. VOLUME	APPROP. TYPE	APPROVED		CHECKED?
		Y	N			Y	N	
pH	15 MIN.	*Y		Y	Y	Within 15 minutes	Y	Y
BOD ₅ & CBOD ₅	48 HOURS	Y		Y	Y	≤6° C	Y	Y
TSS	7 DAYS	Y		Y	Y	≤6° C	Y	Y
AMMONIA	28 DAYS	Y		Y	Y	DECHLOR ≤6° C+H ₂ SO ₄ pH<2	Y	Y
TKN	28 DAYS	Y		Y	Y	DECHLOR ≤6° C+H ₂ SO ₄ pH<2	Y	Y
NITRATE+NITRITE	28 DAYS	Y		Y	Y	≤6° C+H ₂ SO ₄ pH<2	Y	Y
TOTAL PHOS.	28 DAYS	Y		Y	Y	≤6° C+H ₂ SO ₄ pH<2	Y	Y
METALS (Zn)	6 MONTHS	Y		Y	Y	HNO ₃ pH<2 Dissolved Metals: 0.45 µm filter immediately	Y	Y
PROBLEMS:		*Samples are reportedly measured "in situ". This should be documented with the results to demonstrate analysis is within the required holding time.						

Holding Times and Preservation References (VELAP except for Field Tests)

ANALYST:	Region 2000 Service Authority-Livestock Road Landfill	VPDES NO.	VAR051994
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Meter: ExTech pH220
SN:

Parameter: Hydrogen Ion (pH)
Method: Electrometric
11/2014

METHOD OF ANALYSIS:

X	21 st Edition of Standard Methods (SM 21) – 4500-H ⁺ B-2000 (SM 21 pH)
	22 nd Edition of Standard Methods (SM 22), or Online Editions of Standard Methods – 4500-H ⁺ B-2011 (SM 22 pH)

pH is a method-defined analyte so modifications are not allowed. [40 CFR Part 136.6]

		Y	N
1)	Is a certificate of operator competence or initial demonstration of capability available for <u>each analyst/operator</u> performing this analysis? NOTE: Analyze 4 samples of known pH; you may use an external source of buffers or other known standards (different lot/manufacturer than buffers used to calibrate meter). Recovery for each of the 4 samples must be ± 0.2 pH units of the known concentration of the sample. [SM 1020 B.1]	Y	
2)	IF a replicate sample is analyzed is there a written procedure for which result will be reported on DMR (Sample or Replicate) and is this procedure being followed? [DEQ – based on EPA Good Laboratory Practices Standards]		N/A
3)	Is a Laboratory Control Sample (LCS) tested at least annually and are results within acceptance criteria? [SM 21 B.2 or SM 22 1020 B.3.] NOTE: LCS should be a purchased Proficiency Test (PT) sample or a different buffer other than ones used for calibration of the meter [with a ± 0.1 pH units acceptance range or within "Acceptable Range" specified by the PT provider].. NOTE: The same pH buffer [values] used for calibration of the instrument can be used as LCS if from a different source or different lot.	Y	
4)	Is the electrode in good condition (no chloride precipitate, scratches, deterioration, etc.)? [SM 21 pH or SM 22 pH 2.b./c. and 5.b.]	Y	
5)	Is electrode storage solution in accordance with manufacturer's instructions? [SM 21 pH or SM 22 pH 4.a. and Mfr.]	Y	
6)	Is meter calibrated on at least a daily basis using three buffers all of which are at the same temperature? [SM 21 pH or SM 22 pH 4.a.] NOTE: Start with Buffer 7 unless manufacturer's instructions state otherwise. NOTE: If meter is not capable of 3 buffer calibration use 2 buffers bracketing the expected sample pH and then <u>measure</u> a 3 rd buffer (the measurement value recorded must be ± 0.1 pH units), and then <u>reread and record</u> value of buffer 7 to ensure ± 0.1 pH units.]	Y	
7)	After calibration, is a buffer analyzed as a check sample to verify that calibration is correct? Verification measurement should be within ± 0.1 pH units. [SM 21 1020 B 10.c. or SM 22 1020 B 11.c.]	Y	
8)	Is calibration verification measurement repeated with every 10 samples and at the end of a series of samples? Verification measurement should be within ± 0.1 pH units. [SM 21 pH or SM 22 pH 4020 B 2.b.] NOTE: Not applicable if pH meter is calibrated before taking any measurement (e.g., if operator monitors daily pH at more than one facility and calibrates before each measurement).		N/A
9)	Do the buffer solutions appear to be free of contamination or growths? [SM 21 pH or SM 22 pH 3.a.]	Y	
10)	Are buffer solutions within the listed shelf-life or have they been prepared within the last 4 weeks? [SM 21 pH or SM 22 pH 3.a.] Exp: pH 4- 1/7/18; pH 7- 11/29/18; pH 10- 1/8/18	Y	
11)	Is the cap or sleeve covering the access hole on the reference electrode removed when measuring pH? [Mfr.]	Y	
12)	Is sample analyzed within 15 minutes of collections? [40 CFR Part 136] <u>In Situ, per R. Arthur</u>	Y*	

		Y	N
13)	Is the electrode rinsed and then blotted dry between reading solutions (Disregard if a portion of the next sample analyzed is used as the rinsing solution.)? [SM 21 pH or SM 22 pH 4.a and 4.b]	Y	
14)	Is the sample stirred gently at a constant speed during measurement? [SM 21 pH or SM 22 pH 4.b.]	Y	
15)	Does the meter hold a steady reading after reaching equilibrium? [4.b.]	Y	

Comment:

12. Samples are reportedly measured "in situ". **This should be documented with the results to demonstrate analysis is within the required holding time.**