



BALDWIN COUNTY

HIGHWAY DEPARTMENT

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*JOEY NUNNALLY, P.E.
COUNTY ENGINEER*

June 25, 2019

MEMORANDUM

To: ADEM File

From:


Tyler Mitchell, P.E.
Construction Engineer

RE: ADEM INSPECTION FORM – DATED JUNE 10, 2019

Attached you will find an ADEM Inspection report for June 10, 2019 stated BMP failure were due to an "upset condition" that occurred from June 5, 2019 to June 10, 2019. The Project Manager (Stantec) did not verbal inform ADEM of the occurrence within 24 hours but corrective measurement were taken onsite to fix all failure within the 5 day time allowance.

/EMS
c:File

ADEM NPDES CONSTRUCTION STORMWATER INSPECTION REPORT AND BMP CERTIFICATION

RESPOND WITH "N/A" AS APPROPRIATE. FORMS WITH INCOMPLETE OR INCORRECT ANSWERS, OR MISSING SIGNATURES WILL BE RETURNED AND MAY RESULT IN APPROPRIATE COMPLIANCE ACTION BY THE DEPARTMENT. IF SPACE IS INSUFFICIENT, CONTINUE ON AN ATTACHED SHEET(S) AS NECESSARY. PLEASE TYPE OR PRINT IN INK.

Item I.

Permittee Name: Baldwin County Commission	Facility/Site Name: CR-9 Bridge Replacement
Permit Number: ALR10BCH3	County: Baldwin
Facility Entrance Latitude & Longitude: N30 29' 27.30" W87 47'48.23"	Phone Number: 251-937-0371
Facility Street Address or Location Description: From I-10 take HWY 59 south 8.5 miles. Take SR-104 west 2.5 miles. Take CR-55 south 2.0 miles. Take CR-48 west 2.5 miles.	

Item II.

List name of current ultimate receiving water(s) (indicate if through MS4) and the number of disturbed acres which drains through each treatment system or BMP: Add additional sheet(s) if necessary.			
Receiving Water	Disturbed Acres	Discharge Point #	Representative Outfall
Polecat Creek	6.6		<input type="checkbox"/> YES <input type="checkbox"/> NO
Polecat Creek	6.6		<input type="checkbox"/> YES <input type="checkbox"/> NO
Polecat Creek	6.6		<input type="checkbox"/> YES <input type="checkbox"/> NO
Polecat Creek	6.6		<input type="checkbox"/> YES <input type="checkbox"/> NO
Polecat Creek	6.6		<input type="checkbox"/> YES <input type="checkbox"/> NO

Item III.

1. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Did discharges of sediment or other pollutants occur from the site? If "Yes", please list a description of the discharge(s) and their location(s): See Attached
2. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Were BMPs properly implemented and maintained at the time of inspection? If "No", please provide location(s) and descriptions of BMPs that need maintenance: See Attached
3. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Are BMPs needed in addition to those already present onsite at the time of inspection? If "Yes" please provide a description and location of additional BMPs that are needed: See Attached
4. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Have any BMPs failed to operate as designed? If "Yes", please provide location(s) and description of BMP(s) that failed: See Attached
5. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Were there BMPs required by the CBMPP that were not installed or installed in a manner not consistent with the CBMPP? If "Yes", please provide a description and location where the BMPs were not installed or installed incorrectly:

Item IV.



The Permittee shall conduct turbidity monitoring in accordance with Part V of the permit:	
1. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this facility a Priority Construction Site?
2. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Has the facility disturbed greater than 10 acres?
3. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Was the site discharging at the time of inspection?
4. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Samples collected, if "Yes", sampling data must be attached.

Item V.

Weather Conditions: "UPSET EVENT" 5.99 inches, Wednesday June 5, through Sunday June 9, 2019: PC, 77*-90*

[illegible]

"Based upon the inspection of (date & time) Monday, June 10, 2019 10:00 am conducted by the QCP, QCI, or a qualified person (list: Adrian Lang T56331) under the direct supervision of the QCP identified below. The QCI or QCP identified below certifies that effective structural and non-structural BMPs have been fully implemented and regularly maintained to the maximum extent practicable for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff, **except for those deficiencies noted above**, in accordance with the facility's CBMPP, good sediment, erosion, and other pollution control practices, and the requirements of the permit. I certify that discharges have been tested or evaluated for the presence of non-stormwater and non-authorized process wastewaters. 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 submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that this form has not been altered, and if copied or reproduced, is consistent in format and identical in content to the ADEM approved form. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

Name & Designation of QCI or QCP Frank Lundy, Operations Manager	Signature 	Date 6-18-19
Name & Title of Permittee Responsible Official Charles F. Gruber, Commission Chairman	Signature 	Date 6-21-19

ATTACHMENT: STORMWATER INSPECTION REPORT AND BMP CERTIFICATION June 10, 2019

ITEM III.

1. **YES.** Sediment losses occurred at several different locations on the jobsite due to a series of "UPSET RAINFALL EVENTS" having received **3.20"** of intense rainfall from Wednesday June 5, from 1:00 pm to Thursday June 6, 7:30 am. Continuing from Thursday June 6, 7:30 am to 1:00 pm the same day, **1.62"**. From that point throughout the weekend until Monday June 10, 2019 an additional **1.17"** fell for a total of **5.99"** for this Upset Event. The material losses occurred at the following locations:

Station 27+15, 25.0' to 75.0' Rt at the bottom of the riprap slope where excessive flow channeled behind the silt fences and deposited material at the base of the riprap slope.

Station 26+25, 50.0' Rt to 50.0' Lt at the bottom of the riprap slope between the new and existing bridges where excessive flow between the roadways overran the newly installed BMP's that were in place.

Station 17+60, 85' Lt where excessive flow penetrated beneath the silt fencing and deposited sediment beyond the permanent riprap basin.

Station 25+00 to 26+00, 90' Lt where excessive flow from the backslope removed materials from underneath the rolled erosion control matting and deposited sediment into the slope paved flume. Some of this sediment was transported beyond the riprapped ditch at release point 3.0. The basin adjacent to the construction site pond behind the dyke appears to have not been affected over this upset event

2. **NO.** As noted above these locations were succumbed to an "UPSET RAINFALL EVENT" and at the time of inspection the BMP's had been breached and were in desperate need of maintenance
3. **YES.** Additional BMP's are being added to the following locations:

Floating basin boom has been ordered to be placed further upstream at Station 27+15 Rt and 26+25 Rt. The check dams and sump areas are to be cleaned out and reshaped as well. All deposited sedimentation will be removed with proper care then the permanent blanket and riprap slope protection installed.

The long front slope adjacent to the slope paved ditch near Station 25+00 Lt will need materials brought in to eliminate the ruts and rills that have developed underneath the rolled erosion control matting, and then additional seeding and mulch to help stabilize the shoulder.

The area near the 60" pipe end treatment located at Station 17+60 Lt was seeded, mulched, and sodded prior to this rain event. All offsite sediment will be removed. The basin will be excavated, and additional riprap will be added to increase the containment depth for sediment. The perimeter silt fence will also need to be tucked in to ensure that sediment will not be able to escape the project.

4. **YES.** Allowances were made to account for the runoff between the old and new alignments from Station 32+50 to 27+58 Rt, and 20+00 to 26+25 Rt (current construction operations), however, the "upset event" runoff overran the check dams and sumps then exited pass the silt fences, over the riprap and beyond the floating basin boom.

The outfall basin at Sta:17+60 Lt was not deep enough and was unable to adequately contain the increased sediment brought on by the upset rain event. Additional riprap will be added to increase the containment depth for sediment.