

North Carolina Department of Transportation Roadside Environmental Unit Erosion & Sedimentation / Stormwater Report

ICA

Immediate Corrective Action

This project does not comply with the North Carolina Erosion and Sedimentation Control laws. Immediate Corrective Action is needed to resolve the situation to full compliance with the Law: (T15A: 04B.0000).

Project Information

Inspection Date:	11/19/2018	Evaluator:	Josh Young		
Project #:	44401.3.1	TIP #:	U-5828		
Division #:	5	County:	Wake		
Project Type:	Contract	Engineer:	Beryl Road Resident		
Project Length:	1.65	Disturbed Acres:	0		
River Basin:	Neuse	HQW Zone:	NO	Trout Zone:	NO
Location Description:	JY - McCrimmon Parkway from SR-3015 (Airport Boulevard) to SR-1002 (Aviation Parkway) in Morrisville				

Project Evaluation

Report Type: Routine ICA ICA Ex 1st ICA Ex 2nd CICA - SWO
 PCN ECPAR

Length	Section	Installation of BMPs	Maintenance of BMPs	Effectiveness of BMPs	Plan Implementation	Overall Project Evaluation
1.65	The Entire Project	6	6	6	6	6

Grading Scale: 0 - 6 = Immediate Corrective Action Required, 7 = Fair, 8 = Good, 9 = Very Good, 10 = Excellent

Remarks and Recommendations:

I arrived onsite Monday, November 19, 2018 for my monthly site visit. At that time, I discovered multiple areas where sediment had been lost off the project into permitted areas.

In addition to these findings, the NPDES records reflect any of the project concerns listed below. Also, no one on the project contacted the Roadside Environmental Field Operation or the Division Environmental Officer about the sediment loss on the project so that it could be reported to the appropriate agencies within 24 hours per the 401 permit.

Once I found these items of concerns I met with Teresa (Assistant Resident), Niki (DEO) and Stephen (Inspector) onsite to discuss my findings.

At that time, it was agreed upon that I would hold the ICA until Tuesday afternoon to give contractor time to get project back in compliance.

I arrived for the second time this afternoon Tuesday, November 20, 2018. I met Cameron (NCDOT Resident), Stephen (Inspector), Stephen (Barnhill) to revisit the items of concern.

The Contractor has pumped out all sediment from drainage inlets, started repairing some of the Type C inlet protections and was working on Site 3 at time of second site visit.

Even though some progress has been made, there was still multiple permitted sites that have not been addressed as of today and the NPDES records still do not reflect items of concern listed below.

At this time, I am issuing the project an ICA for the following items listed below. I will revisit the site on Monday, November 26, 2018 to verify that items have been addressed and project is back in compliance. At that time, I will either lift the ICA or it will continue until project concerns have been addressed.

Project Concerns:

- 1.) STA 57+50LT special sediment Control outlet needs repair. Recommend adding additional stone to outlet.
- 2.) Hardware cloth around drain inlets throughout the entire project are caving in due to not enough silt fence post being installed. Recommend repairing hardware cloth and adding more silt fence post for more support.
- 3.) Permitted Site 3: Sediment loss has occurred at outlet of pipe. Sediment material entered drain inlets on roadway due to inlets not being installed properly. A thin layer of sediment has been deposited off site all along stream channel and into adjacent pond. At this time, I believe it will be very difficult to retrieve all the material lost throughout the entire stream since it is a skim layer, however I do recommend that the material lost off project limits that is near to the Type A rock check be retrieved. Along with retrieving material I also recommend seeding, mulching, and returning area to original condition.
- 4.) Permitted Site 5: CWD does not extend to outlet per EC plans. Since EC measures were not installed per EC plans the project runoff has flowed over disturbed soil and has entered Jurisdictional Stream and pipe system due to special sediment control fence failing. Sediment has washed downstream a significant distance off project limits and has deposited a skim layer of material on the flood plain. Currently, I recommend repairing special sediment control outlet, and cleaning out dirty stone and replacing with new stone. I also recommend retrieving any material that is near to the last rock check at this location. Is the contractor in clearing and grubbing phase or final phase at this location? Either way EC measures are not installed per EC plans. I recommend that EC measures be installed per EC plans in order to prevent further sediment loss at this location.
- 5.) Site 7 Southport stream crossing = Pipe crew was installing permanent pipe system at this location on Monday. During the pipe installation process an unauthorized earthen dam was utilized to block clean water diversion from allowing JS stream to flow freely while pipe installation was in process. This is a permit violation and needs to be addressed ASAP. This type of work requires either a clean water diversion or bypass pump around operation. Ensure that contractor is following proper protocol found in the NCDOT BMP manual.

If you have any questions or concerns, please feel free to email or call.
Thank you

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 Division #: 5 County: Wake
 Project Type: Contract Engineer: Beryl Road Resident
 Project Length: 1.65 Disturbed Acres: 0
 River Basin: Neuse HQW Zone: NO Trout Zone: NO
 Location JY - McCrimmon Parkway from SR-3015 (Airport Boulevard) to SR-1002 (Aviation Parkway) in
 Description: Morrisville

Project Evaluation

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Length	Section	Installation of BMPs	Maintenance of BMPs	Effectiveness of BMPs	Plan Implementation	Overall Project Evaluation
1.65	The Entire Project	7	7	7	7	7

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Remarks and Recommendations:

I am lifting the ICA at this time since Barnhill has addressed most of the project concerns noted during last inspection. Even though the ICA has been lifted from the project there remains several areas of concern that have not been finished by contractor, thus the reason for an overall project grade of 7. Some of the areas listed below cannot be accessed at this time due to the areas being too wet and not accessible, it is my recommendation to allow these wet areas to dry out prior to repairing. Please see comments (****) under project concerns for details.

Project Concerns:

1.) Hardware cloth around drain inlets throughout the entire project are caving in due to not enough silt fence post being installed. Recommend repairing hardware cloth and adding more silt fence post for more support.

****Appears that all Type C Inlet protections have been repaired and look good.****

2.) Permitted Site 3: Sediment loss has occurred at outlet of pipe. Sediment material entered drain inlets on roadway due to inlets not being installed properly. A thin layer of sediment has been deposited off site all along stream channel and into adjacent pond. At this time, I believe it will be very difficult to retrieve all the material lost throughout the entire stream since it is a skim layer, however I do recommend that the material lost off project limits that is near to the Type A rock check be retrieved. Along with retrieving material I also recommend seeding, mulching, and returning area to original condition.

****Drainage inlet and pipes have been cleaned out and Type C inlet protection has been repaired. Sediment which was lost near Type A Rock Check has been recovered and is awaiting seeding, mulching and tacking scheduled for tomorrow. Seeding sub was scheduled to be onsite today, however site was too wet for them to access site. Class B stone at outlet of pipe still appears dirty and slopes adjacent appear unstable. Once area dries out, I recommend that dirty class B stone be removed and replaced with clean stone and stabilize adjacent slopes in flood plain by seeding and matting area with coir fiber matting.****

4.) Permitted Site 5: CWD does not extend to outlet per EC plans. Since EC measures were not installed per EC plans the project runoff has flowed over disturbed soil and has entered Jurisdictional Stream and pipe system due to special sediment control fence failing. Sediment has washed downstream a significant distance off project limits and has deposited a skim layer of material on the flood plain. Currently, I recommend repairing special sediment control outlet, and cleaning out dirty stone and replacing with new stone. I also recommend retrieving any material that is near to the last rock check at this location. Is the contractor in clearing and grubbing phase or final phase at this location? Either way EC measure are not installed per EC plans. I recommend that EC measures be installed per EC plans to prevent further sediment loss at this location.

****Sediment control outlet has been repaired and 57 stone has been added. Ditch ahead of outlet has been graded and is awaiting seeding sub to seed and mat ditch. Contractor also stated that they plan on installing several wattles ahead of outlet. Class B stone on outlet side of pipe is still in need of attention. Due to the wet conditions of slopes and not being able to access the site. I recommend removing the dirty Class B Stone and replacing with new stone once the area dries out. Seeding sub plans on seeding, mulching, and tacking disturbed slopes tomorrow.****

5.) Site 7 Southport stream crossing = Pipe crew was installing permanent pipe system at this location on Monday. During the pipe installation process an unauthorized earthen dam was utilized to block clean water diversion from allowing JS stream to flow freely while pipe installation was in process. This is a permit violation and needs to be addressed ASAP. This type of work requires either a clean water diversion or bypass pump around operation. Ensure that contractor is following proper protocol found in the NCDOT BMP manual.

****Contractor has installed an Impervious dike on the inlet side of pipe and has started utilizing a bypass pump which is redirecting project runoff from diversion channels into two adjacent basins. It was determined during the onsite meeting with Stephen (Barnhill), Teresa (Assistant Resident), Niki (DEO), and I (Roadside Env.) that no more construction throughout the project will take place except for at this location until clean water was running through new installed pipe system. This will also include stabilizing both the upstream and downstream areas where runoff is entering and exiting pipe systems. I will revisit the site at later date to ensure these areas stable.****

If you have any questions or concerns, please feel free to email or call.
Thank you

Year	ICAs Reported
2008	19
2009	23
2010	22 Missing Aug-Oct
2011	24
2012	18
2013	20
2014	12
2015	9
2016	6
2017	5
2018	2

