

# 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

<b>Inspection Date:</b> 07/20/2022	<b>Evaluator:</b> Andy Blankenship
<b>Project #:</b> 34360.3.GV4	<b>TIP #:</b> R-1015 <b>Contract #:</b> C204177
<b>Division #:</b> 2	<b>County:</b> Craven
<b>Project Type:</b> Contract	<b>Engineer:</b> New Bern District (2)
<b>Project Length:</b> 10.40	<b>Disturbed Acres:</b>
<b>River Basin:</b> Neuse	<b>HQW Zone:</b> NO <b>Trout Zone:</b> NO
<b>Location Description:</b> US 70 Havelock Bypass	

#### 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
1.0	Culvert near Sta 509	7	7	6	6	6

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

#### **Remarks and Recommendations:**

An ICA is being issued for the culvert site near station 509+00+/- for failure to properly implement the EC plan. Recent storms caused heavy sediment loss into the stream channel. A small recordable loss was noted on 7/11. It was cleaned up, but then a more severe loss was recorded on 7/19.

I met onsite with NCDOT and contractor personnel to review the culvert site. The contractor responded immediately after the storm, installed impervious dikes, and began the clean up operation. At this time we do not think sediment went beyond the outlet of the culvert. My main concern is that proper EC was not in place prior to the storm. Skimmers 36.1, 36.2 and 36.5 are depicted on the C&G as well as Final Phase EC plans, but have not been installed. Prior to backfilling the culvert, runoff was being directed to a low spot on the future grade and there were no EC concerns. At that time the skimmers were not deemed necessary, but with the understanding that they should be installed once runoff patterns changed. Once backfilling began, this low area was not readily available for storage and runoff patterns did in fact change. Through consultation with Central REU we revised the skimmers from standard skimmer basins to earthen dam skimmers (email received 6/13). Unfortunately, these devices were not installed in a timely manner. It was mentioned during the 7/6 review that the ESA Special Provision needed to be adhered to in this area and that slopes needed to be finished and devices installed.

**Actions needed to lift the ICA:**  
 -Continue clean up efforts.

- Install earthen dam skimmers per revision. Utilize berms and slope drains as needed.
- Bring slopes within the ESA area to final grade. Permanent seed according to stabilization timeframes.
- Maintain damaged silt fence and other EC devices in the vicinity of the culvert.

There are several areas on the project where washouts occurred and sediment losses were noted. The Agencies have been notified of these losses and clean up efforts are underway. This ICA is specific to the culvert area and should be made a priority, but the other areas need to be addressed in a timely manner as well.

I will perform a follow up review at the culvert site on Thursday, July 28th to make sure the EC plan has been implemented and the ESA special provision has been adhered to.

North Carolina Department of Transportation  
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**Project Information**

Inspection Date: 08/02/2022      Evaluator: Andy Blankenship  
 Project #: 34360.3.GV4      TIP #: R-1015      Contract #: C204177  
 Division #: 2      County: Craven  
 Project Type: Contract      Engineer: New Bern District (2)  
 Project Length: 10.40      Disturbed Acres:  
 River Basin: Neuse      HQW Zone: NO      Trout Zone: NO  
 Location: US 70 Havelock Bypass  
 Description:

**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
1.0	Culvert near Sta 509	8	8	8	8	8
6.0	Remainder of Project	8	7	7	8	7

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

**Remarks and Recommendations:**

The ICA associated with the culvert near station 509+00+/- is being lifted. I met onsite with Garcy Ward (DWR), Stephen Lane (DCM), NCDOT and contract personnel to review the site.

- A berm has been placed on the right side of the grade along with slope drains to act as temporary storage until they can bring the grade up enough to force runoff into the ditch as called for in the plans.
- The Agencies were good with the sediment clean up efforts. The impervious dikes have been removed.
- Double check the weirs on the skimmers and checks in the ditch line to make sure the low points are in the center.

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The PCN is being lifted as well.

- Sediment has been removed from the small wetland area and silt fence installed for protection.
- A permit mod request is in the works for the area.

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The Resident Engineer plans to keep the Stop Work Order (SWO) in place. We reviewed several of the sites where sediment loss occurred recently. Crews are working hard to reclaim the material and perform EC maintenance. It was determined that the SWO would remain in place until these sites are in better shape.

\*\*I appreciate the efforts of the NCDOT staff and contractor.

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**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: 07/26/2022                      Evaluator:                      Josh Young  
 Project #:                      34542.3.6                      TIP #:                      R-3421A&B                      Contract #: C204368  
 Division #:                      8                      County:                      Richmond  
 Project Type:                      Contract                      Engineer:                      Asheboro Resident  
 Project Length:                      6.10                      Disturbed Acres:                      0  
 River Basin:                      Yadkin                      HQW Zone:                      NO                      Trout Zone:                      NO  
 Location Description:                      I-73/74 From US-74 ByPass West of Rockingham at SR-1109(Zion Church Rd) to North of SR 1304(Harrington Rd)

**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
1.8	R-3421A	--	--	--	--	--
4.3	R-3421B	--	--	--	--	--
	Culvert 6	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 reviewed the project today with Ben DeWit, Darren Cranford, and Lonnie Owens. The reason for the site visit was to assess whether a silt bag was placed off the right of way at STA 240+00 RT at culvert Site 6. It was determined onsite that that two silt bags were placed over 100 feet off the right of way onto private property. Silt bags were unable to be returned to right of way with equipment which resulted in EC crews having to manually shovel silt into wheel barrel and returning to right of way. This retrieval process was taking place during our onsite evaluation. I am issuing an ICA at this time based on silt bags being placed outside of right of way without following the Reclamation Plan Procedure. A better solution would have been to pump excess water from basin 143 into basin 140 instead of utilizing silt bags during basin clean out operation. I recommend removing both silt bags and any remaining silt from this location. I also recommend seeding and mulching all disturbed areas once all the material has been removed. After I have received final clean up photos of this location, I will lift ICA.

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 Project #: 34542.3.6                              TIP #: R-3421A&B                      Contract #: C204368  
 Division #: 8    County: Richmond  
 Project Type: Contract                              Engineer: Asheboro Resident  
 Project Length: 6.10                              Disturbed Acres: 0  
 River Basin: Yadkin                              HQW Zone: NO                              Trout Zone: NO  
 Location Description: I-73/74 From US-74 ByPass West of Rockingham at SR-1109(Zion Church Rd) to North of SR 1304(Harrington Rd)

**Project Evaluation**

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1.8	R-3421A	--	--	--	--	--
4.3	R-3421B	--	--	--	--	--
	Culvert 6	8	8	8	8	8

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

**Remarks and Recommendations:**

Based on provided before and after cleanup photos sent via email from Residents office. I agree that original offsite disturbance from placement of silt bag has been addressed appropriately and the project is back in compliance.  
 I am lifting the ICA at this time based on cleanup efforts.

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ICA EX 1st / PCN

Immediate Corrective Action Extension (First Issuance) / Permit Consultation Needed

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). This project does not comply with the permit requirements for the project. Permit consultation is needed to resolve the situation to full compliance.

**Project Information**

Inspection Date:	07/28/2022	Evaluator:	Andy Blankenship	
Project #:	34360.3.GV4	TIP #:	R-1015	Contract #: C204177
Division #:	2	County:	Craven	
Project Type:	Contract	Engineer:	New Bern District (2)	
Project Length:	10.40	Disturbed Acres:	0	
River Basin:	Neuse	HQW Zone:	NO	Trout Zone: NO
Location Description:	US 70 Havelock Bypass			

**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
1.0	Culvert near Sta 509	7	7	6	7	6
6.0	Remainder of Project	8	7	7	8	7
0.1	Wetland Impact stat 513 Rt	7	7	7	7	7

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

**ICA EX 1st / PCN Comments:**

A PCN (Permit Consultation Needed) is being issued due to impacts to wetlands near station 513 Rt. adjacent to Site 39. I have spoken with Tom Steffens (USACE) and Garcy Ward (DWR) and they both agree a Permit Mod will be required to perform the work that is shown on the plans. Recommend coordinating the permit mod with Jay Johnson (DEO).

**Remarks and Recommendations:**

The ICA is being extended. Progress at the culvert site is being made, but there is still an issue with how the runoff is being handled. I met onsite with NCDOT and contract personnel to review the site.

- Actions needed to lift the ICA:

- - - -The sediment has been reclaimed from the culvert. \*Discussed the inlet area with Garcy over the phone. He is OK with installing the rip rap per the permit drawings and using coir fiber matting to try and stabilize the incoming ditch. If it begins to scour he will check to see if additional rip rap can be used. He is OK with removing the dikes as long as the perimeter EC is in place along with the rip rap and coir fiber matting.

- - - -The ditchline has been cut and the earthen dam skimmers have been installed. Double check the weirs on the skimmers and checks to make sure the low points are in the center. Slope drains were not installed along

the ditch because the front slope was built to grade. Runoff is not able to enter the ditch. This led to a discussion on installing a berm with slope drains along the right side of the grade to act as temporary storage until they can find a way to get the runoff into the ditch as called for in the plans (i.e. installing the 42 in. RCP structure 3621 or ditch, finding a way to get the grade sloped to where runoff can be forced into the ditch, or punching temp slope drains through the front slope).

- - - Bring slopes within the ESA area to final grade. Permanent seed according to stabilization timeframes.

\*Seeding of the ditch was taking place today. Slope along the right side needs to be addressed as well.

- - - Maintain damaged silt fence and other EC devices in the vicinity of the culvert. \*Working on today.

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A PCN is being issued due to impacts to wetlands near station 513 Rt. adjacent to Site 39. Runoff from the grade near the culvert has been directed toward this area. The majority of the wetlands (Site 39) are going to be permanently filled, but there is a small area where impacts are not allowed. We noticed a while back that a portion of this wetland is supposed to be permanently filled, but the permit does not account for it. It was recommended that it be brought to the Agencies attention. In the meantime we were to protect it with silt fence. It was determined today that the silt fence is not in the correct location and that the sediment from the runoff has impacted the areas.

- - -Recommend properly staking out the wetland boundary, reclaiming the sediment, and then installing silt fence as needed to protect the area.

- - -Coordinate the permit mod with Jay Johnson. The area inside the toe of slope will need to be shown as permanent fill, and then I recommend requesting the remainder of the area be shown as mechanized clearing.

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The Resident Engineer issued a Stop Work Order (SWO) in conjunction with the ICA on 7/20/22. I spoke to Brad, Paul, Kenny, Anthony and Cadmus concerning the SWO. A detailed list has been compiled for EC related issues throughout the project. We rode the remainder of the project. The contractor has everyone focused on sediment reclamation and EC maintenance. There is still quite a bit of work to be done.

\*\*I appreciate the efforts of the NCDOT staff and contractor.

I will perform a follow up review on Tuesday, August 2nd.