### Local Program Report to the SCC Johnston County, January 16, 2019

On January 16, 2019 personnel from the NCDEQ, Land Quality Section, conducted a review of Johnston County's Erosion and Sedimentation Control Program. Since our last review on November 1, 2018, the county has hired a new inspector as well as hired an outside consultant to help with plan reviews. The county now has three staff members currently contribute 1.5 full-time equivalents to the program. The county requires a sediment and erosion control plan for sites that have one acre or more of total land disturbance. Since the Nov. 1, 2018 review, the county has reviewed 16 plans, with 8 approvals, and 8 disapprovals. The county currently has 148 active projects. In this time frame, the county has conducted 41 site inspections, issued 3 Notices of Violation and 1 Stop Work Orders. There have been no Civil Penalty Assessments made in this time frame. The county continues to hold building inspections and plats as tools to bring sites back into compliance. During our review of the program, we reviewed three sets of plans that had been approved by the county after our review in November and inspected 3 sites.

The following is a summary of the projects that were reviewed:

### 1. Holy Cross Lutheran Church (Plan Review Only)

This project consists of 3.2 acres and was being constructed for church/educational expansion. The file for this project included the FRO, plan, calculations, deed, and an approval letter. There were no inspection reports, as construction had not started. The erosion and sediment control plan was approved on January 11, 2019. The approved plan was adequate, containing all the appropriate details and calculations for the measures designed for the site. The plans were missing some existing topographic information and soil types, but the county used their GIS system to find that information while conducting their plan review.

### 2. Star Valley Subdivision (Plan Review Only)

This project consists of 11 acres and was being constructed for residential development. The file for this project included the FRO, plan, calculations, deed, and an approval letter. There were no inspection reports, as construction had not started. The erosion and sediment control plan was approved on January 7, 2019. The approved plan was adequate, containing all the appropriate details and calculations for the measures designed for the site.

#### 3. Medlin Tract (Plan Review and Site Inspection)

This project consists of 18.45 acres and was being constructed for residential development. The file for this project included the FRO, deed, plan, calculations, and an approval letter. No inspections had yet been performed for this site. The erosion and sediment

control plan was approved on October 18, 2018. The approved plan was adequate. Construction started sometime in early November. During our site inspection, the site was out of compliance. Violations included failure to follow approved plan and insufficient measures to retain sediment on site. Some of the issues noticed were disturbed land outside of the approved limits of disturbance, check dams and dissipater pads missing from sediment traps and ditches per plan, silt fence not installed around all stockpiles, skimmer basin embankments were narrow, and there was no set of plans kept on site. Corrective actions needed include submitting a revised sediment and erosion control plan for the limits of disturbance and staging area, install all measures according to plans and details, install silt fence around all stock piles, and keep a set of plans onsite in an accessible location.

### 4. East School Road/ Ross Landing (Site Inspection Only)

This project consists of 38 acres and was being constructed for residential development. This site inspection was conducted as a follow up to the inspection from the previous review, where the site was found to be in violation of several of the sediment and erosion control rules. The site is currently under notices of violation. While the site was still out of compliance during our inspection, significant progress had been made to comply with the NOV. Ground cover had been established on slopes and large areas across the site, steep slopes had been regraded and reseeded, all offsite sediment had been cleaned up, silt bags had been reinstalled in curb inlets, super silt fence had been installed in areas where sediment had been going offsite, a pad was installed for the skimmer, and slope drains were repositioned. Violation of the previous inspection included: failure to follow the approved plan, failure to submit a revised plan, failure to provide adequate groundcover, failure to take all reasonable measures, graded slopes and fills too steep, unprotected exposed slopes, failure to maintain measures, and failure to self-inspect. The violations of this inspection included: failure to follow approved plan, failure to submit a revised plan, failure to provide adequate groundcover, failure to take all reasonable measures, and failure to maintain measures. The County stated they were ready to take enforcement action depending upon the results of their inspection in the first week of January; however, they felt that a civil penalty would not be issued at this time due to the progress seen during this inspection. The County has kept the current NOV open.

### 5. Jordan Narron Rd (Site Inspection Only)

This project involves a road expansion that is near completion. All construction has finished and they are just trying to establish stable groundcover for the entire site. Johnston County is keeping the permit open until stable groundcover has been achieved. The site was in compliance during our visit.

#### **Conclusion:**

During our review, we found plan reviews had improved as well as the quality and number of site inspections conducted, inspection reports written, and NOVs issued had increased. The County should implement the following recommendations to improve the program:

- 1) Continue to attend state-provided workshops to keep staff education current.
- 2) Continue to use Regional Office and Central Office as a resource to help with potential trouble sites.
- 3) Continue to grow your program in order to handle the increasing number of active projects in your area.

Overall, the Johnston County Program has seen vast improvements. Approved plans have been adequate and containing all the necessary documents, details, and calculations. Notices of Violations are being issued, and have the appropriate enforcement language. County staff are reaching out to the DEQ Raleigh Regional Office for assistance with NPDES violations. Inspection reports are providing appropriate corrective actions, and are properly documenting site conditions. Staff attended both the 2018 Local Programs and Planners Workshops.

Based on the review, staff will recommend to end the review of the "Sediment and Erosion Control Program" of Johnston County and place the program on continuing delegation.

This report has been prepared based on the review of Johnston County's Local Program. This report will be presented to the Sedimentation Control Commission (SCC) on February 7, 2019.

# SEDIMENTATION INSPECTION REPORT

North Carolina Department of Environmental Quality Division of Energy, Mineral and Land Resources

County:Johnston	-				
				Project #	Johnston County Program
Address:SR 1716			Case #		
1. Project location:	7				
Pictures: No: Yes:		U			
2. Weather and soil condit		_		pection: Yes: 🗹	No:
3. Is site currently under n					
4. Is the site in compliance	with S.P.C.A.	and rules? Yes: ☐ N	No: 🗹 If no, chec	k violations below	
5. Violations: a. No approved plan, G.S. 1	13A-57 (4) and	I 15A N C A C 4B 0107	7(c) o Inadequat	e buffer zone G.S.	113A-57(1)
b. Failure to follow approv				opes and fills too s	
c. Failure to submit revised				A-57(2) or 15A N.C	-
15A N.C.A.C. 4B.0118(a	•			ted exposed slopes.	
d. Failure to provide adequa	-				, 15A N.C.A.C. 4B.0113
15A N.C.A.C. 4B.0107(I				self-inspect G.S. 1	13A-54.1(e) and
arDelta e. Insufficient measures to $ert$ f. Failure to take all reasona				A.C. 4B.0131	
				,	
_					If no, check violations below:
m. Failure to manage constr NCG 010000 Sec. II, B.1	_	utants,		have approved pla 000 Sec. III, 3(d)	n and NPDES permit on site,
n. Failure to provide ground		NCG 010000 Sec. II. B.		, , ,	n BMP's, NCG 010000 Sec. III, 4
o. Failure to maintain rain g					in control measures,
NCG 010000 Sec. II, B.1	-	,		000 Sec. IV, 1	,
p. Failure to meet self-inspe	_	ting requirements,			facilities, NCG 010000, Sec. IV, 3
NCG 010000 Sec. II, B.1			□ v. Other (de	scribe)	<del>-</del>
q. Failure to dewater sedime NCG 010000 Sec. II, B.4		surface,			
Lake/natural watercourse Description: Stormwater Discharge Ou Degree of damage: slight 8. Contact made with (name	on the tract:   tfall with sedim modera	Lake/natural watercountent loss:  sete: severe:	rse off the tract:	Other property:	
Inspection report given:			_		
9. Corrective actions neede		o person imanerany resp	yourselet Butte grive		
Revised plan for limits of	disturbance a	nd staging area.			
Check dams and dissipation	on pads for se	diment traps per plans	<u>s.</u>		
Silt fence around all stock	piles.				
Check dam in roadside dit	ch before driv	/e.			
Keep set of plans on site.		_			
•					
Report by:Taylor You		<u>-</u> 			
Date of inspection:1	/16/2019 <b>_ Ti</b>	me arriving on site:	4:00 pm	Time leaving	g site:5:10 pm
cc:					Page 1 of2

## SEDIMENTATION INSPECTION REPORT

North Carolina Department of Environmental Quality Division of Energy, Mineral and Land Resources

County:	Johnston	Project:	Medlin Tract	Project #
9. Correctiv	ve actions needed	(continued)		
☐ Submit ar	n adequate sedimen	tation and erosion con	itrol plan for approval, cove	ering all areas disturbed or to be disturbed.
$\square$ Install all	sedimentation and	erosion control measu	ares as shown on the approv	ved plan.
Submit a	a revised sedimenta	tion and erosion contr	ol plan for approval for the	e following areas: <u>See Corrective actions needed</u>
				as been completed according to the time limits in the
Install en	rosion and sedimen	t control devices suffi	cient to retain sediment on	the tract at the following areas: See Corrective action
☐ Install ten	nporary sediment ti	raps or basins and asso	ociated diversions as shown	n on the approved plan, including the following locations:
☐ Install add	equate drop inlet pr	rotection as shown on	the approved plan, including	ng the following locations:
	-			sedimentation within the 25 % of the buffer nearer the land Vaters) including the following areas:
Reduce th	ne angle of graded s	slopes to an angle on v	which vegetative ground co	over may be established including the following locations:
				nent ground cover on all graded slopes where rough or fine ons:
			-	pproved plan and as required to prevent sedimentation
☐ Properly l	handle concrete to a	avoid contact with sur	face waters, wetlands or bu	affers and prevent discharge from site.
Relocate	soil stockpiles at le	ast 50 feet away from	storm drain inlets or surfac	ce waters.
		-	cover on areas where land-	disturbing activity has ceased in 7 or 14 days according to
☐ Provide s	ediment basins with	h a drainage area of or	ne acre or greater with a ski	immer or flashboard riser.
		mentation control meas ete self-monitoring rep		outfalls at least weekly and within 24 hours of a rainfall eve
☐ Maintain	a rain gauge in goo	od working order and r	record daily rainfall amoun	ts.
and parking Site active	g – need revised p when we inspecte eck dams and dis	olan and measures for ed. Plan set not in bo	or this area. Self inspecti ox, kept in superintender	or roadway. Disturbed area outside LOD for staging ion records – first 11/12, latest 1/4 (no issues noted). nt's truck. Silt fence not around entire stockpile. on the far side of the project looked to have undersized.
				ned. No additional self-monitoring or self-inspections are
=	=	and coverage under I ylor Young		ater Permit for Construction Activities is terminated. section:1/16/2019 Page2 of2

### SEDIMENTATION/CONSTRUCTION STORMWATER INSPECTION

### North Carolina Department of Environmental Quality

Division of Energy, Mineral and Land Resources: 3800 Barrett Drive, Raleigh, North Carolina 27609, (919) 791-4200

County: <u>Johnston</u> Project: <u>East School Road-Flowers Plantation (Ross Lan</u>	-					
Person financially responsible: Dan Ryan Builders NC, LLC Attn: Jay Lewi	is, VP Project #: JOCO Local Program					
Address: <u>3131 RDU Center Drive, Suite 120, Morrisville, NC 27560</u> Case	#					
1. Project location: East School Road Pictures: No: Yes: Yes:	Video: ☐ Digital: ☒					
2. Weather and soil conditions: <u>sunny, dry workable</u> First inspection: Ye	es: No: 🛚					
3. Is site currently under notice of violation? Yes: $\square$ No: $\square$						
<b>4.</b> Is the site in compliance with S.P.C.A. and rules? Yes: $\square$ No: $\boxtimes$ If no	o, check violations below:					
a. No approved plan, G.S. 113A-57 (4) and 15A N.C.A.C 4B.0107(c)	g. Inadequate buffer zone, G.S. 113A-57(1)					
☑ b. Failure to follow approved plan, G.S. 113A-57(5)	h. Graded slopes and fills too steep,					
C. Failure to submit revised plan, G.S. 113A-54.1(b) and	G.S. 113A-57(2) or 15A N.C.A.C. 4B.0124(d)					
15A N.C.A.C. 4B.0118(a)	i. Unprotected exposed slopes, G.S. 113A-57(2)					
☑ d. Failure to provide adequate groundcover, G.S. 113A-57(3) and 15A N.C.A.C. 4B.0107(b) or 15A N.C.A.C. 4B.0124(e)	<ul><li>☑ j. Failure to maintain measures, 15A N.C.A.C. 4B.0113</li><li>☑ k. Failure to self-inspect G.S. 113A-54.1(e) and</li></ul>					
e. Insufficient measures to retain sediment on site, G.S. 113A-57(3)	15A N.C.A.C. 4B.0131					
☑ f. Failure to take all reasonable measures, 15A N.C.A.C. 4B.0105	☐1. Other (describe)					
Z i. I militare to take all reasonable measures, 151114.6.116. 12.0105						
5. Is the site in compliance with NPDES Permit NCG 010000? Yes: N	Io: ☑ Not applicable: ☐ If no, check violations below:					
☐ m. Failure to manage construction site pollutants,	r. Failure to have approved plan and NPDES					
NCG 010000 Sec. II, B.1	permit on site, NCG 010000 Sec. III, 3(d)					
☑ n. Failure to provide ground stabilization, NCG 010000 Sec. II, B.2	S. Failure to install and maintain BMP's,					
o. Failure to maintain rain gauge or record daily rainfall	NCG 010000 Sec. III, 4					
NCG 010000 Sec. II, B.3(a,b)						
p. Failure to meet self-inspection and reporting requirements,	measures, NCG 010000 Sec. IV, 1					
NCG 010000 Sec. II, B.3(c-i)	u. Bypass of stormwater control facilities,					
q. Failure to dewater sediment basin from surface, NCG 010000 Sec. II, B.4	NCG 010000, Sec. IV, 3  v. Other (describe) Failure to implement the erosion					
and sedimentation control plan. The Permittee must implement and follow						
erosion and sedimentation control plan is considered a condition of Constru						
Section III. 3) (a)						
6. Has sedimentation damage occurred since last inspection or at 1st inspec	ction? Yes: If yes, where? (check all that apply) No:					
Lake/natural watercourse on the tract:   Lake/natural watercourse off th						
Description: _(note - no additional off-site sedimentation)						
Stormwater Discharge Outfall with sediment loss:						
Degree of damage: slight: moderate : severe :						
7. Contact made with (name): Randy Talton Title: Dan Ryan I	Homes					
Inspection report given: ☐ or sent: ☐ to person financially responsible.						
8. Comments: Site is under Johnston County Local Program's jurisdiction for	-					
Actions. NOV dated August 13, 2018, and Notice of Continuing Violation dated	d September 20, 2018, are still in effect. Significant progress					
has been made to comply with the NOV/NOCV, including recent seeding of lar	-					
curb inlets, repositioning of slope drains, adding super silt fencing, installing pad						
work is needed to satisfy all the requirements of NOV/NOCV.						
Permanent ground cover sufficient to restrain erosion has been established. N	No additional self-monitoring or self-inspections are required.					
Project is released and coverage under NPDES General Stormwater Permit for	Construction Activities is terminated.					
•						
☑ See page 2 for Corrective Actions						
Report by: Kimberly Summers Others present: Julie Coco (DEMLR), Taylor Young						
(DEMLR), Charles Pender (JOCO), Shannon Stanley (JOCO), Chandra Farmer (JOCO)						
Date of inspection: <u>01/16/2019</u> Time arriving on site: <u>2:05</u> Time lea	ving site: _3:40					
cc:	Page <u>1</u> of <u>2</u>					

Rev. Date 05/27/2016

### SEDIMENTATION/CONSTRUCTION STORMWATER INSPECTION

### North Carolina Department of Environmental Quality

Division of Energy, Mineral and Land Resources: 3800 Barrett Drive, Raleigh, North Carolina 27609, (919) 791-4200

County: Johnston Project: East School Road-Flowers Plantation (Ross Landing) Project #: JOCO Local Program

9. Corrective actions needed for:
S.P.C.A. and rules:
☐ Submit an approvable sedimentation and erosion control plan, including appropriate review fee, covering all areas disturbed or to be
disturbed.
☐ Install all sedimentation and erosion control measures as shown on the approved plan.
Submit a revised sedimentation and erosion control plan.
Provide adequate permanent ground cover on all areas where development has been completed according to the time limits in the approved plan.
☐ Install erosion and sediment control devices sufficient to retain sediment on the tract.
☐ Install temporary sediment traps or basins and associated diversions as shown on the approved plan.
☐ Install adequate drop inlet protection as shown on the approved plan.
Provide an adequate stream buffer zone of sufficient width to confine visible sedimentation within the 25% of the buffer nearer the land
disturbance using natural or artificial means.
Reduce the angle of graded slopes to an angle on which vegetative ground cover may be established.
☐ For disturbed areas less than one acre, provide adequate temporary or permanent ground cover on all graded slopes where rough or fine
grading has been completed for 21 calendar days.
Maintain all sedimentation and erosion control measures as specified in the approved plan and as required to prevent sedimentation
damage.
NPDES Permit NCG 010000:
☑ Properly handle concrete to avoid contact with surface waters, wetlands or buffers and prevent discharge from site.
☐ Relocate soil stockpiles at least 50 feet away from storm drain inlets or surface waters.
☐ Provide adequate temporary or permanent ground cover on areas where land-disturbing activity has ceased in 7 or 14 days according to
NCG 01000 permit conditions.
Provide sediment basins with a drainage area of one acre or greater with a skimmer or flashboard riser.
☐ Inspect all erosion and sedimentation control measures and storm discharge outfalls at least weekly and within 24 hours of a rainfall
event of ½ inch or greater and complete self-monitoring reports.
Maintain a rain gauge in good working order and record daily rainfall amounts.
10. Additional Corrective Actions: 1) Several ESC measures need to be maintained or repaired including skimmer basin, silt fencing, sil
fence outlets, and inlet protection. Silt fencing should be toed in. Baffles should be replaced in skimmer basin. Stone should be added to
silt fence outlet below pump station. Stone should be added to DIP. 2) Concrete washout needs signage, a gravel entrance, and the liner
secured in the proper location around all sides. 3) Remaining eroded areas should be repaired and stabilized. 4) Reseeding is needed in
areas where temporary vegetation has died. Unvegetated inactive areas must have temporary ground cover. 5) Stockpiles should be moved
at least 50 feet from any drop inlet or open water channel. 6) A revised sediment and erosion control plan still needs to be submitted address
changes planned to stabilize the slope.

**Date of inspection:** 01/16/2019 **Page** 2 **of** 2

Rev. Date 05/27/2016

Report by: Kimberly Summers

Johnston Country

#### **DEPARTMENT OF PUBLIC UTILITIES**

Post Office Box 2263 SMITHFIELD, NC 27577 (919) 989-5075

12/19/2018

# NOTICE OF VIOLATIONS OF THE SEDIMENTATION POLLUTION CONTROL ACT

### <u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Mr. Jay Lewis, Vice President Dan Ryan Builders-North Carolina, LLC 3131 RDU Center Drive, Suite 201 Morrisville, NC 27560

RE: Project Name: East School Road @ Flowers Plantation

Project ID: JC 17-102-P

**Project Location: East School Road** 

**County:** Johnston

Compliance Deadline: 15 Days from receipt

### To Whom It May Concern:

On 12/13/2018, personnel of this office inspected the above referenced project. This inspection was performed to determine compliance with the North Carolina Sedimentation Pollution Control Act (Act) of 1973. The inspection revealed a land-disturbing activity of approximately **38** acres being conducted.

The purpose of this letter is to inform you that this activity was found to be in violation of the SPCA, G.S. 113A-50 to 66, Title 15A, North Carolina Administrative Code (NCAC), Chapter 4. If you feel that you are not responsible for the following violations, please notify this office immediately.

The violations of the SPCA that were found are:

- a. Failure to file an acceptable, revised plan after being notified of the need to do so. G.S. 113A-54.1 (b) and 15A NCAC 4B .0118 (a). Submit revised plans showing individual lot measures as well as how the steep slope will be stabilized.
- b. Failure when a land-disturbing activity that will disturb more than one acre is undertaken on a tract, to provide a permanent ground cover sufficient to restrain erosion on such

Notice of Violations Dan Ryan Builders-North Carolina, LLC 12/19/2018 Page 2 of 3

exposed areas within 15 working days or 90 calendar days, whichever is shorter, after completion of construction or development. G.S. 113A-57(3) and 15A NCAC 4B .0107(b). Ground cover is not sufficient to retain erosion.

- c. Failure to maintain on graded slopes and fills, an angle which can be retained by vegetative cover or other adequate erosion control devices or structures. G.S. 113A-57(2) and (if in HQW Zone) 15 NCAC 4B .0124(d). The large slope is not stabilized adequately. The slope should be stabilized and vegetated.
- d. Failure within 21 calendar days of completion of any phase of grading, to plant or otherwise provide exposed graded slopes or fills with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion. G.S. 113A-57(2). Slopes are not stabilized adequately to restrain erosion. Slopes must be stabilized.
- e. Failure to install and maintain all temporary and permanent erosion and sedimentation control measures as required by the approved plan or any provision of the Act, and rules adopted thereunder, during or after the development of a site. 15 NCAC 4B .0113. Maintain erosion control measures on site to include but not limited to the concrete washout, silt fence outlets, inlet protection, skimmer basin, etc.

### To correct these violations, you must:

- 1. Submit revised plans showing the erosion control measures for the individual lots as well as how to better stabilize the steep slope.
- 2. Muck the sediment and refresh yard inlets that have sediment accumulation with 18" of clean stone.
- 3. Repair and stabilize all eroded areas and provide measures to prevent additional erosion. This was noted throughout the site especially where the streets were cut in but not completed, the northeast portion of the site as well as the west side of the site.
- 4. Sweep the streets.
- 5. Repair the liner in the concrete wash out pit and remove the concrete that was poured outside the pit.
- 6. Stabilize the steep slope on the north side of the project. The slope must be graded at an angle that can retain vegetative cover or other adequate erosion control measures to establish temporary or permanent ground cover.
- 7. Muck and refresh the silt fence outlets downslope of all eroded areas.
- 8. Muck skimmer sediment basin 1.
- 9. Establish temporary or permanent ground cover on all bare or sparsely vegetated portions of the site including, but not limited to the spoil piles, slopes, riparian buffer, etc.

Please note that merely planting grass seed does not satisfy the requirements of "vegetative cover" or of "ground cover sufficient to restrain erosion." These requirements are not satisfied until an adequate cover of grass or other ground cover (such as properly applied and secured, mulched

Notice of Violations Dan Ryan Builders-North Carolina, LLC 12/19/2018 Page 3 of 3

seeding or appropriate rip-rap) is established which is, in fact, sufficient to restrain accelerated or man-made erosion.

We request that you complete all corrective actions no later than 15 days after the receipt of this letter. Please be advised that any new land-disturbing activity associated with this project should not begin until the area presently disturbed is brought into compliance.

When corrective actions are complete, you should notify this office so that work can be inspected. You should not assume that the property is in compliance with the Ordinance until we have notified you. We solicit your cooperation, and would like to avoid taking further enforcement action. Please be aware that the violations cited herein may be subject to civil penalties of up to \$5,000 per violation per day beginning from the date of the violation.

Should you have questions concerning this notice or the requirements of the Johnston County Erosion and Sediment Control Ordinance, please contact Jessica Batten at (919) 209-8333 or via email at jessica.batten@johnstonnc.com .

Sincerely,

Jessica Batten, EI

Jusin Batter

Development Engineer/ Stormwater Manager

Enclosures: Sedimentation Inspection Report

**Photos** 

cc: Julie Coco, PE, CPESC-NCDEQ via email

Chandra C. Farmer, PE via email