



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

Project Summary: William Campbell Road Outfall

Project #: 2010-084                      Completed: Oct-10

Narrative Description of Project:  
 Project improved 1,658 L.F. of drainage system. Shinn cut and cleaned out 1,658 L.F. of outfall ditch. Constructed 1,658 L.F. of workshelf. Installed (1) access pipe and (9) bleeder pipes. Extended (2) bleeder pipes. Installed rip rap and hydroseeded for erosion control.

**Material Cost, Rental Equipment Summary, and Labor**

Material	Unit	Cost/Unit	Qty	Cost
15" RCP Pipe	linear feet	\$10.17	24.0	\$244.08
Fill Dirt	ton	\$1.00	21.2	\$21.21
Rip Rap	ton	\$47.08	7.5	\$351.22
Recycled Concrete	ton	\$1.00	14.2	\$14.18
Silt Fence	sy	\$0.78	8.6	\$6.68
Filter Blanket	sy	\$0.63	13.9	\$8.75
Turf Staples	each	\$0.03	30.0	\$0.90
10-10-10 Fertilizer	bag	\$11.72	2.0	\$23.44
Hydrogel	cup	\$2.54	2.0	\$5.08
Hydromulch	bale	\$12.22	4.0	\$48.88
Hydromax Liquid Fertilizer	cup	\$2.82	2.0	\$5.64
Annual Rye Grass Seed	bag	\$19.21	2.0	\$38.42
Water	gallon	\$0.01	1,000	\$10.00
Pin Flags	each	\$0.06	31.0	\$1.86
4ft Flagger	each	\$0.34	2.0	\$0.68
Flagging Tape	roll	\$1.87	0.3	\$0.56
Gas	gallon	\$2.49	153.0	\$380.97
Diesel	gallon	\$2.56	1,215	\$3,110.40
Excavator Rental				\$705.06
Labor	hours		739.0	\$16,107.85
Indirect Labor, Services, and Supplies				\$11,168.61
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$32,254.47</b>

Note: Labor cost includes the employee's salary plus fringe benefits.

**Equipment Cost**

Item	Asset No.	Cost/Hour	Hrs.	Cost
Shinn Cutter	22943	\$31.34	13.0	\$407.42

**Site Photographs**

Before



During



After



**William Campbell Road Outfall Project Summary Con't**

Project #: 2010-084

**Equipment Cost**

Item	Asset No.	Cost/Hour	Hrs.	Cost
Volvo 290 Excavator	22870	\$49.56	8.0	\$396.48
Volvo 330 Excavator	22993	\$59.32	19.0	\$1,127.08
JCB Urban Excavator	23364	\$31.45	4.0	\$125.80
Dresser/Dozer	17014	\$23.48	42.0	\$986.16
JD Loader 444J	23271	\$29.75	15.0	\$446.25
Bobcat T320	23388	\$21.00	1.0	\$21.00
Lowboy	23118	\$34.64	10.0	\$346.40
Hydroseeder	23474	\$12.44	2.0	\$24.88
Dump Trucks		\$13.31	168.0	\$2,236.08
Pickup Trucks		\$4.12	227.0	\$935.24
<b>Total Equipment Cost</b>				<b>\$7,052.79</b>

Cost/hour excludes fuel cost.

Total Cost: \$39,307.26

**Site Photographs**

Before



During



After



**Project: William A Campbell Road Outfall**

**Activity: Drainage Maintenance**

**Project #: 2010-084**

**Township: Sheldon**

**Completed: October 2010**

**Legend**

**Drainage Type**

- River
- Stream
- Outfall
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Road Pipe
- Crossline
- DW
- Access
- Piped
- Bleeder

Installed (1) access pipe. Shinn cut and cleaned out 1,658 LF of outfall ditch. Constructed 1,658 LF of workshelf. Installed rip rap and hydroseeded for erosion control.

Installed (5) bleeder pipes

Installed (2) bleeder pipes

Installed and extended (2) bleeder pipes



1 inch = 177 feet