



**Natural Resources Conservation Service
DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery**

Section 1A

Date of report 05/14/2019

DSR number 37-07-18-5038-296

Project number 5038-296

NRCS Entry Only	
Eligible:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Approved:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding priority number (from sect. 4)	<u>3e</u>
Limited Resource Area:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 1	Major disaster declaration
<input type="checkbox"/> 2	Emergency declaration
<input type="checkbox"/> 3	Fire management assistance declaration
<input type="checkbox"/> 4	Local declaration

Section 1B - Sponsor Information

Sponsor Name: Brunswick Soil and Water Conservation District

Address: 10 Referendum Drive, Building F

City/State/Zip: Bolivia, NC 28422

Telephone Number 910-253-2830 Fax: _____

Section 1C - Site Location Information

County: Brunswick State NC Congressional District 7

Latitude Multiple Longitude Multiple UTM Coordinates _____

Drainage name Multiple Site name Multiple

Reach _____

Damage description Stream and Floodplain Debris / Debris Removal

296	BlueBanksLoopTrib	Brunswick County	34.31701	-78.119677
297	LelandSchoolRdNEDRain	Brunswick County	34.261427	-78.053257
298	MapleRdNW Trib	Brunswick County	34.004804	-78.527521
299	OldMillRdNEOldMillCr	Brunswick County	34.257247	-78.037495
301	RusstownRdNWScippioSwampTrib	Brunswick County	34.002206	-78.521943
302	RusstownRdScippioSwampTrib	Brunswick County	34.01334	-78.536404
303	BlueBanksLoopNEDrain	Brunswick County	34.313716	-78.120132
304	BlueBankLoopNEDoubleRun	Brunswick County	34.320334	-78.117749
305	DanfordRdBoliviaBr	Brunswick County	34.068698	-78.132783
306	HW87BataroraBr	Brunswick County	34.248276	-78.144755

DSR NO: 37-07-18-5038-296

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Creek Debris Removal	900	ft	\$ 5.00	\$ 4,500.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 3,500.00	3,500.00
Overhead and Profit	1	LS	\$ 1,200.00	1,200.00
Total installation cost (enter in sections 1E and 3) \$				9,200.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-297

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Ditch Debris Removal	1440	ft	\$ 5.00	\$ 7,200.00
Mobilization	1	LS	\$ 2,800.00	2,800.00
Overhead and Profit	1	LS	\$ 1,500.00	1,500.00
Total installation cost (enter in sections 1E and 3) \$				11,500.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-298

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
2000' Ditch Clearing	2000	ft	\$ 5.00	\$ 10,000.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 2,000.00	2,000.00
Overhead and Profit	1	LS	\$ 1,800.00	1,800.00
Total installation cost (enter in sections 1E and 3) \$				13,800.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-299

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
1300 ' Creek Debris Removal	1300	ft	\$ 5.00	\$ 6,500.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 3,500.00	3,500.00
Overhead and Profit	1	LS	\$ 1,500.00	1,500.00
Total installation cost (enter in sections 1E and 3) \$				11,500.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-301

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
930' Debris Removal	930	ft	\$ 5.00	\$ 4,650.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 2,350.00	2,350.00
Overhead and Profit	1	LS	\$ 1,000.00	1,000.00
Total installation cost (enter in sections 1E and 3) \$				8,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-302

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
1500 Ditch Debris Removal	1500	ft	\$ 5.00	\$ 7,500.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 2,500.00	2,500.00
Overhead and Profit	1	LS	\$ 1,500.00	1,500.00
Total installation cost (enter in sections 1E and 3) \$				11,500.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-303

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Ditch Debris Removal	800	ft	\$ 5.00	\$ 4,000.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 2,000.00	2,000.00
Overhead and Profit	1	LS	\$ 900.00	900.00
Total installation cost (enter in sections 1E and 3) \$				6,900.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-304

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
100' Debris Removal	100	ft	\$ 5.00	\$ 500.00
No Floodplain Clearing				
Streambank Stabilization by backfill	4	CY	\$ 200.00	800.00
Mobilization	1	LS	\$ 2,700.00	2,700.00
Overhead and Profit	1	LS	\$ 600.00	600.00
Total installation cost (enter in sections 1E and 3) \$				4,600.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-305

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
1100 Debris Removal	1100	ft	\$ 5.00	\$ 5,500.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 2,500.00	2,500.00
Overhead and Profit	1	LS	\$ 1,200.00	1,200.00
Total installation cost (enter in sections 1E and 3) \$				9,200.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Anthony W. Grubbs, P.E. Date: 04/25/19



Natural Resources Conservation Service
DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

Section 1A

Date of report 05/14/2019
DSR number 37-07-18-5038-306
Project number 5038-306

NRCS Entry Only	
Eligible:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Approved:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding priority number (from sect. 4)	<u>3e</u>
Limited Resource Area:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 1	Major disaster declaration
<input type="checkbox"/> 2	Emergency declaration
<input type="checkbox"/> 3	Fire management assistance declaration
<input type="checkbox"/> 4	Local declaration

Section 1B - Sponsor Information

Sponsor Name: Brunswick Soil and Water Conservation District
Address: 10 Referendum Drive, Building F
City/State/Zip: Bolivia, NC 28422
Telephone Number 910-253-2830 Fax: _____

Section 1C - Site Location Information

County: Brunswick State NC Congressional District 7
Latitude Multiple Longitude Multiple UTM Coordinates _____
Drainage name Batarora Branch Site name Multiple
Reach _____
Damage description Stream and Floodplain Debris / Debris Removal

306	Brunswick	HW87BataroraBr	Brunswick County	34.248276	-78.144755
307	Brunswick	MacoRdNEHoodCr	Brunswick County	34.232568	-78.122641
308	Brunswick	MtMiseryRdNEHoodCr	Brunswick County	34.310909	-78.119578
309	Brunswick	VernonRdNEDrain	Brunswick County	34.309456	-78.146774
310	Brunswick	Ash Little River Road NW-Unnamed Trib t		34.045334	-78.550184
311	Brunswick	Big Neck Road NW-South Prong Wet Ash Swamp		34.014262	-78.463517
312	Brunswick	Big Neck Rd NW Unnamed Trib to Mill Branch		34.029375	-78.462178
313	Brunswick	E Leonard St-Unnamed Drainage		33.924237	-78.019381
314	Brunswick	George II HWY-Willet Branch		34.10038	-78.086348
315	Brunswick	Green Swamp Road NW Royal Oak Swamp		34.033649	-78.280101

DSR NO: 37-07-18-5038-306

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal from Creek 550'	600	ft	\$ 20.00	\$ 12,000.00
No Floodplain Clearing				
Mobilization	1	LS	\$ 5,000.00	5,000.00
Overhead and Profit	1	LS	\$ 2,550.00	2,550.00
Total installation cost (enter in sections 1E and 3) \$				19,550.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-307

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Creek Debris Removal	300	ft	\$ 5.00	\$ 1,500.00
Mobilization	1	LS	\$ 2,500.00	2,500.00
Overhead and Profit	1	LS	\$ 600.00	600.00
Total installation cost (enter in sections 1E and 3) \$				4,600.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-308

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
1700' Creek Debris Removal	1700	ft	\$ 5.00	\$ 8,500.00
Mobilization	1	LS	\$ 2,500.00	2,500.00
Overhead and Profit	1	LS	\$ 1,650.00	1,650.00
Total installation cost (enter in sections 1E and 3) \$				12,650.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-309

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
1000' Creek Debris Removal	1000	ft	\$ 5.00	\$ 5,000.00
Mobilization	1	LS	\$ 2,000.00	2,000.00
Overhead and Profit	1	LS	\$ 1,000.00	1,000.00
Total installation cost (enter in sections 1E and 3) \$				8,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Raj Tolikonda, PE Date: 05/14/2019

DSR NO: 37-07-18-5038-310

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Trees Debris Removal	0.4	AC	\$ 7,500.00	\$ 3,000.00
Hauling and Disposal	8	TN	\$ 780.00	6,240.00
Mobilization	1	LS	\$ 1,850.00	1,850.00
Overhead and Profit	1	LS	\$ 1,670.00	1,670.00
Total installation cost (enter in sections 1E and 3) \$				12,760.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019

DSR NO: 37-07-18-5038-311

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	0.2	AC	\$ 7,500.00	\$ 1,500.00
Hauling and Disposal	3	TN	\$ 900.00	2,700.00
Mobilization	1	LS	\$ 840.00	840.00
Overhead and Profit	1	LS	\$ 760.00	760.00
Total installation cost (enter in sections 1E and 3) \$				5,800.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019

DSR NO: 37-07-18-5038-312

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Channel Debris Removal	600	ft	\$ 15.00	\$ 9,000.00
Mobilization	1	LS	\$ 6,000.00	32,960.00
Total installation cost (enter in sections 1E and 3) \$				15,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019

DSR NO: 37-07-18-5038-313

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	840'	ft	\$ 10.00	\$ 8,400.00
Sediment Removal	90	CY	\$ 50.00	4,500.00
Debris Cleared from Channel				
Mobilization	1	LS	\$ 2,100.00	2,100.00
Total installation cost (enter in sections 1E and 3) \$				15,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019

DSR NO: 37-07-18-5038-314

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal from channel	110	ft	\$ 20.00	\$ 2,200.00
Mobilization	1	LS	\$ 2,800.00	2,800.00
Overhead and Profit	1	LS	\$ 1,000.00	1,000.00
Total installation cost (enter in sections 1E and 3) \$				6,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019

DSR NO: 37-07-18-5038-315

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	510	ft	\$ 10.00	\$ 5,100.00
Mobilization	1	LS	\$ 4,000.00	4,000.00
Overhead and Profit	1	LS	\$ 1,500.00	1,400.00
Total installation cost (enter in sections 1E and 3) \$				10,500.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda P.E. Date: 07/19/2019



Natural Resources Conservation Service
DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

Section 1A

Date of report 07/19/2019
DSR number 37-07-18-5038-316
Project number 5038-316

NRCS Entry Only	
Eligible:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Approved:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding priority number (from sect. 4)	<u>3e</u>
Limited Resource Area:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 1	Major disaster declaration
<input type="checkbox"/> 2	Emergency declaration
<input type="checkbox"/> 3	Fire management assistance declaration
<input type="checkbox"/> 4	Local declaration

Section 1B - Sponsor Information

Sponsor Name: Brunswick Soil and Water Conservation District
Address: 10 Referendum Drive, Building F
City/State/Zip: Bolivia, NC 28422
Telephone Number 910-253-2830 Fax: _____

Section 1C - Site Location Information

County: Brunswick State NC Congressional District 7
Latitude Multiple Longitude Multiple UTM Coordinates 17N 742304 3763954
Drainage name Multiple Site name Multiple
Reach _____
Damage description Stream Debris and Streambank Erosion / Debris Removal and Streambank Stabilization

316	Brunswick	Hwy 17-Woodward Branch	33.988236	-78.376893
317	Brunswick	Hwy17-Mulberry Branch	33.9791	-78.400901
318	Brunswick	Long Beach Rd SE-Jump and Run Creek	33.94835	-78.051884
319	Brunswick	Longwood Road NW Scippo Swamp	34.009255	-78.543322
320	Brunswick	Ridgeway SW-Unnamed Trib to Sharron Creek	33.98309	-78.363939
321	Brunswick	River Road SE-Trib to Orton Pond	34.039416	-78.008077
322	Brunswick	Southport Supply Rd SE - SE Dutchman Creek	33.949732	-78.038418

DSR NO: 37-07-18-5038-317

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	300	ft	\$ 15.00	\$ 4,500.00
Sediment Removal	320	CY	\$ 40.00	12,800.00
Mobilization	1	LS	\$ 8,700.00	8,700.00
Overhead and Profit	1	LS	\$ 3,900.00	3,900.00
Total installation cost (enter in sections 1E and 3) \$				29,900.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Anthony W. Grubbs, P.E. Date: 7/18/19

DSR NO: 37-07-18-5038-318

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	730	ft	\$ 10.00	\$ 7,300.00
Mobilization	1	LS	\$ 5,700.00	5,700.00
Overhead and Profit	1	LS	\$ 2,000.00	2,000.00
Total installation cost (enter in sections 1E and 3) \$				15,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019

DSR NO: 37-07-18-5038-319

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	1530	ft	\$ 10.00	\$ 15,300.00
Mobilization	1	LS	\$ 8,700.00	6,700.00
Overhead and Profit	1	LS	\$ 3,600.00	3,300.00
Total installation cost (enter in sections 1E and 3) \$				25,300.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other
(specify) _____

Completed by: Anthony W. Grubbs, P.E. Date: 7/18/19

DSR NO: 37-07-18-5038-320

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	1550	ft	\$ 10.00	\$ 15,500.00
Mobilization	1	LS	\$ 5,500.00	4,500.00
Overhead and Profit	1	LS	\$ 3,000.00	2,000.00
Total installation cost (enter in sections 1E and 3) \$				22,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019

DSR NO: 37-07-18-5038-321

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree Debris Removal	100	ft	\$ 10.00	\$ 1,000.00
Mobilization	1	LS	\$ 2,000.00	2,000.00
Overhead and Profit	1	LS	\$ 1,000.00	1,000.00
Total installation cost (enter in sections 1E and 3) \$				4,000.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Anthony W. Grubbs, P.E. Date: 7/18/19

DSR NO: 37-07-18-5038-322

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Tree debris Removal	1550	AC	\$ 10.00	\$ 15,500.00
Mobilization	1	LS	\$ 6,500.00	6,500.00
Overhead and Profit	1	LS	\$ 3,300.00	3,300.00
Total installation cost (enter in sections 1E and 3) \$				25,300.00

Unit Abbreviations

- AC | acre
- CY | cubic yard
- EA | each
- HR | hour
- LF | linear feet
- LS | lump sum
- SF | square feet
- SY | square yard
- TN | ton
- Other (specify) _____

Completed by: Rajesh Tolikonda, P.E. Date: 07/19/2019