# Universal Soil Loss Equation for Construction Sites

## Dane County Land Conservation Division

**Developer:** Ryan Schultz

**Project:** 3196 Aalseth Lane

**Date:** 10/17/2019

Version 2.2

| Land Disturbing Activity | Begin Date | End Date | Period % R | Annual R Factor | Soil Map Unit | Soil Erodibility K Factor | Slope (%) | Slope Length (feet) | LS Factor | Land Cover C Factor | Soil loss A=%RxRxKxLSxC (tons/acre) | Percent Reduction Required |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | (7.5 tons/acre) |
| disturb ground | 1/15/2019 | 3/28/2019 | 3.8% | 150 | BoC2 | 0.37 | 11.1% | 85 | 1.49 | 1.00 | 3.1 | |
| disturb ground | 3/28/2019 | 4/15/2019 | 2.2% | 150 | BoC2 | 0.37 | 13.3% | 30 | 1.18 | 1.00 | 1.5 | |
| apply mulch | 4/15/2019 | 11/22/2019 | 92.4% | 150 | BoC2 | 0.37 | 13.3% | 30 | 1.18 | 0.12 | 7.2 | |
| seed and mulch | 11/22/2019 | ----- | 15.6% | 150 | BoC2 | 0.37 | 13.3% | 30 | 1.18 | 0.12 | 1.2 | |
| | | ----- | ----- | ----- | | ----- | | | ----- | ----- | ----- | |
| | | ----- | ----- | ----- | | ----- | | | ----- | ----- | ----- | |
| | | | | | | | | | **TOTAL** | | **13.0** | **42%** |

**Land Disturbing Activities:**

| input | definition |
|---|---|
| disturb ground | activity which leaves the ground devoid of vegetation |
| apply mulch | application of straw mulch at 1.5 tons/acre |
| seed and mulch | seeding and application of straw mulch at 1.5 tons/acre |
| seeding | temporary or permanent seeding without the use of mulching materials |
| sod | installation of sod |
| paving | providing 100% cover to disturbed ground with paving materials or stone |

**Notes:** Silt fence or sock at slope bottom will reduce the soil loss to 42%.

| | |
|---|---|
| Designed By: | EMB |
| Date | 10/17/2019 |
| Checked By: | |
| Date | |

Appendix D