

RUSLE2 Calculations

Project: Santa Monica College Bundy Campus, Pickle Ball & Tennis Courts

Pre-Existing Condition Details:

For the pre-existing conditions a RUSLE2 calculation was performed.

During Construction Condition Details:

The project “During Construction” conditions consist of the grading and improvements to the existing site.

Results:

The During Construction Soil Loss is equal to or less than the pre-existing condition indicates a **16.43** Tons/Acre/Year.

RUSLE2: RISK Level 2 Project

Calculations on the following pages...



Pre-Disturbance Site Condition RUSLE2

Add break Erase break

Location USA\California\LosAngeles County\CA_Los Angeles_R44-48

Avg. slope steepness, % 19

Slope length (horiz), ft 26

Rock cover, % 0

Soil loss erod. portion, t/ac/yr 22.4

Sediment delivery, t/ac/yr 22.4

Crit. slope length, ft 26.0

Soil
Topography
Management
PERMEABLE_BARRIER_PLACEMENT_TOOL
Diversion/terrace, sediment basin
General composite segment info
Erosion by year
Info

Slope Management

| Segment | Management | Seg length (horiz), ft | Repeat Construction Operations Annually? | Duration, yr | Soil loss, t/ac/yr | Sed. delivery, t/ac/yr |
|---------|--|------------------------|--|--------------|--------------------|------------------------|
| + - | | | | | | |
| 1 | ...imate areas\Existing Undisturbed Vegetative Cover\Shrub vegetation, existing, 35 to 50 pct Canopy Cover | 26.0 | Yes | 1 | 22 | 22 |



Phase 1 Demolition, Clearing, Grubbing, Grading Condition RUSLE2

Add break Erase break

Manage Soil Topo

Location USA\California\Los Angeles County\CA_Los Angeles_R44-48

| | |
|--------------------------|----|
| Avg. slope steepness, % | 19 |
| Slope length (horiz), ft | 26 |

| | |
|---------------|---|
| Rock cover, % | 0 |
|---------------|---|

| | |
|----------------------------------|------|
| Soil loss erod. portion, t/ac/yr | 16.7 |
| Sediment delivery, t/ac/yr | 16.7 |

| | |
|------------------------|------|
| Crit. slope length, ft | 26.0 |
|------------------------|------|

Diversion/terrace, sediment basin

General composite segment info

Erosion by year

Info

Soil

Topography

Management

PERMEABLE_BARRIER_PLACEMENT_TOOL

How set barriers? set number

Num barriers 1

Barrier spacing, ft

Barrier at bottom? Yes

Barrier type Gravel Bag Berm SE-6

Op install barriers ...nt Control Barrier\Install Permeable Barriers

Date barriers on, m/d/y 1/5/26

Op remove barriers ...Control Barrier\Remove Permeable Barriers

Date barriers off, m/d/y 7/9/27

Apply Sed. barrier system Done

Sediment barrier set Sediment barrier set



Phase 2 Streets/Utilities Condition RUSLE2

Add break Erase break

Location USA\California\LosAngeles County\CA_Los Angeles_R44-48

| | | | |
|-------------------------|----|--------------------------|----|
| Avg. slope steepness, % | 19 | Slope length (horiz), ft | 26 |
| | | Rock cover, % | 0 |

| | |
|----------------------------------|------|
| Soil loss erod. portion, t/ac/yr | 16.7 |
| Sediment delivery, t/ac/yr | 16.7 |
| Crit. slope length, ft | |
| 26.0 | |

| | | | | | | | |
|------|------------|------------|----------------------------------|-----------------------------------|--------------------------------|-----------------|------|
| Soil | Topography | Management | PERMEABLE_BARRIER_PLACEMENT_TOOL | Diversion/terrace, sediment basin | General composite segment info | Erosion by year | Info |
|------|------------|------------|----------------------------------|-----------------------------------|--------------------------------|-----------------|------|

Slope Management

| Segment | Management | Seg length (horiz), ft | Repeat Construction Operations Annually? | Duration, yr | Soil loss, t/ac/yr | Sed. delivery, t/ac/yr |
|---------|---|------------------------|--|--------------|--------------------|------------------------|
| + - | | | | | | |
| 1 | ...orary Practices\Soil stabilant only after Construction\Winter Guar binder soil stabilant only after construction | 26.0 | No | 1 | 17 | 17 |



Phase 3 Vertical Condition RUSLE2

Add break Erase break

Location: USA\California\LosAngeles County\CA_Los Angeles_R44-48

| | | |
|--------------------------|----|---|
| Avg. slope steepness, % | 19 | |
| Slope length (horiz), ft | 26 | Rock cover, % 0 |

| | |
|----------------------------------|------|
| Soil loss erod. portion, t/ac/yr | 16.7 |
| Sediment delivery, t/ac/yr | 16.7 |
| Crit. slope length, ft | 26.0 |

| | | | | | | | |
|------|------------|------------|----------------------------------|-----------------------------------|--------------------------------|-----------------|------|
| Soil | Topography | Management | PERMEABLE_BARRIER_PLACEMENT_TOOL | Diversion/terrace, sediment basin | General composite segment info | Erosion by year | Info |
|------|------------|------------|----------------------------------|-----------------------------------|--------------------------------|-----------------|------|

| Slope Management | | | | | | | |
|------------------|---|------------------------|--|--------------|--------------------|------------------------|--|
| Segment | Management | Seg length (horiz), ft | Repeat Construction Operations Annually? | Duration, yr | Soil loss, t/ac/yr | Sed. delivery, t/ac/yr | |
| + - | | | | | | | |
| 1 | ...orary Practices\Soil stabilant only after Construction\Winter Guar binder soil stabilant only after construction | 26.0 | No | 1 | 17 | 17 | |



Phase 4 Final Stabilization RUSLE2

Add break Erase break

Location: USA\California\LosAngeles County\CA_Los Angeles_R44-48

Avg. slope steepness, %: 1.0

Slope length (horiz), ft: 26

Rock cover, %: 0

Soil loss erod. portion, t/ac/yr: 0.00168

Sediment delivery, t/ac/yr: 0.00168

Crit. slope length, ft: 26.0

Soil
Topography
Management
PERMEABLE_BARRIER_PLACEMENT_TOOL
Diversion/terrace, sediment basin
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Erosion by year
Info

Slope Management

| Segment | Management | Seg length (horiz), ft | Repeat Construction Operations Annually? | Duration, yr | Soil loss, t/ac/yr | Sed. delivery, t/ac/yr |
|--|--|------------------------|--|--------------|--------------------|------------------------|
| <div style="display: flex; justify-content: space-around;"> + - </div> | <div style="display: flex; align-items: center;"> 1 ▢ Arid desert-like climate areas\Construction with Permanent Practices\Paving and Armoring\Concrete </div> | 26.0 | No | 1 | 0.0017 | 0.0017 |

