

Storm Water Pollution Prevention Plan

for:

Bloomington Well Project
6965 E. North Powder Mountain Road
Eden, Utah 84310

Operator(s):

Nelson Brothers Construction Company
Bill Lewis
347 West 1600 South
Salt Lake City, Utah 84115
801-487-5401
email: blewis@nelsonbros.com

SWPPP Contact(s):

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SWPPP Preparation Date:

07 / 26 / 2019

Estimated Project Dates:

Project Start Date: 09 / 01 / 2019
Project Completion Date: 12 / 31 / 2019

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SECTION 1: CONTACT INFORMATION/ RESPONSIBLE PARTIES

1.1 Owner(s) & Contractors

Owner(s):

Summit Mountain Holding Group

Don Guerra

3923 Wolf Creek Drive

Eden, UT 84310

303-905-3496

dguerra@powdermountain.com

Project Manager(s):

Watts Enterprises / Construction Management

Rick Everson, PE, PMP

5200 South Highland Drive

Salt Lake City, Utah 84117

Office: 801-365-0110 / Mobile: 801-897-4880

rick@wattsentprises.com

Site Supervisor(s):

Nelson Brothers Construction Company

Rick Henwood

347 West 1600 South

Salt Lake City, Utah 84115

801-301-7482

ricohenwood@gmail.com

SWPPP Contact(s):

Nelson Brothers Construction Company

Bill Lewis

347 West 1600 South

Salt Lake City, Utah 84115

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blewis@nelsonbro.com

This SWPPP was Prepared by:

Nelson Brothers Construction Company

Bill Lewis

347 West 1600 South

Utah SWPPP Template, June 21, 2018

Salt Lake City, Utah 84115
801-487-5401 ext 108
blewis@nelsonbros.com

Subcontractor(s):

Not Applicable / All Sitework done by General Contractor
Nelson Brothers Construction Company
Bill Lewis
347 West 1600 South
Salt Lake City, Utah 84115
801-487-5401 ext 108
blewis@nelsonbros.com

Emergency 24-Hour Contact:

Nelson Brothers Construction Company:
Leland W Redd
801-487-5401 office / 801-244-5205 mobile / 801-292-5789 home

1.2 Storm Water Team

On Site SWPPP Installation and Maintenance and Removal
General Contractor Superintendent
Rick Henwood
801-301-7481
rickehenwood@gmail.com

General Contractor SWPPP Development and Administration
Assistant Project Manager
Bill Lewis
801-487-5401 ext 108
blewis@nelsonbros.com

SECTION 2: SITE EVALUATION, ASSESSMENT, & PLANNING

2.1 Project/Site Information

Instructions:

- In this section, you can gather some basic site information that will be helpful to you later when you file for permit coverage.
- For more information, see *Developing Your Storm Water Pollution Prevention Plan: A SWPPP Guide for Construction Sites* (also known as the *SWPPP Guide*), Chapter 2
- Detailed information on determining your site's latitude and longitude can be found at www.epa.gov/npdes/stormwater/latlong

Project/Site Name: Bloomington Well Project
 Project Street/Location: 6965 E North Powder Mountain Road
 City: Eden State: Utah ZIP Code: 84115
 County or Similar Subdivision: Weber County

Latitude/Longitude (Use **one** of three possible formats, and specify method)
 Latitude: _____ " N (degrees, minutes, seconds)
 1. ____ ° ____ ' ____ " N (degrees, minutes, seconds)
 2. ____ ° ____ ' ____ " N (degrees, minutes, decimal)
 3. ____ ° ____ ' ____ " N (decimal)
 Longitude: _____ " W (degrees, minutes, seconds)
 1. ____ ° ____ ' ____ " W (degrees, minutes, seconds)
 2. ____ ° ____ ' ____ " W (degrees, minutes, decimal)
 3. ____ ° ____ ' ____ " W (decimal)

Method for determining latitude/longitude:
 USGS topographic map (specify scale: _____)
 EPA Web site GPS
 Other (please specify): Google Maps

Is the project located in Indian country? Yes No
 If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable." _____

Is this project considered a federal facility? Yes No
 UPPDES project or permit tracking number*: UTR395263

**(This is the unique identifying number assigned to your project by your permitting authority after you have applied for coverage under the appropriate National Pollutant Discharge Elimination System (UPDES) construction general permit.)*

2.2 Nature of Construction Activity

2.5 Emergency Related Projects

Emergency-Related Project?

Yes

No

2.6 Phase/Sequence of Construction Activity

<p>Phase I</p> <ul style="list-style-type: none"> ■ BMP Implementation ■ Start per Notice to Proceed yet unknown. Expected approx Sept 1 2019 ■ Silt Fence perimeter down slopes, Catch Basin Protection installed, Temporary Tracking Pad installed at entry, Concrete Washout containment created, Drainage path wattle and/or bales installed, Trenching or Berms to direct run of to controlled areas. ■ These BMP's are all temporary and will be removed after final stabilization. 	<p>Phase II</p> <ul style="list-style-type: none"> ■ Grub / Clear and Construct Entry Road, Parking Lot, Yardpiping, Pump House foundation. ■ Following BMP Implementation. Approx Mid September thru Mid October. Possible to have a winter shut down and resume in spring of 2020 if necessary ■ All BMP's will be monitored on a daily basis and specifically inspected after any storm to evaluate and repair BMP's as necessary. 	<p>Phase III</p> <ul style="list-style-type: none"> ■ Final Grading ■ Prior to winter 2019 and possibly finished spring 2020. ■ All BMP's will be monitored on a daily basis and specifically inspected after any storm to evaluate and repair BMP's as necessary. 	<p>Phase IV</p> <ul style="list-style-type: none"> ■ Final Stabilization ■ Prior to winter 2019 and possibly finished spring 2020. ■ Hydroseeded of disturbed areas and Erosion Control blankets installed in areas steeper than 3:1. 	<p>Phase V</p> <ul style="list-style-type: none"> ■ BMP Removal after final stabilization and germination of seed. ■ Summer 2020
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2.7 Site Features and Sensitive Areas to be Protected

This project is not in a naturally undisturbed area. The location is at an already constructed well site for the Hidden Lake Well Head. The entire project is within the bounds of the previous construction.

IPaC: Species determinations were consulted with the U.S. Fish & Wildlife Service regarding the Endangered Species Act. There are no Critical Habitats at this location.

Consulted Christopher Hansen, Preservation Planner Utah State Historic Preservation Office of the Utah Division of State History. He reports there are no properties within our project area that will be affected. We are to observe carefully and if any archaeological remains are discovered we are to notify the State Historic Preservation Office. See Attached email.

2.8 Maps

The location map is filed in Appendix A

See G-01 and C-02

The SWPPP site map(s) are filed in Appendix B

See C-02 SWPPP

SECTION 3: WATER QUALITY

Storm Water discharge will be monitored daily and following storm activity to verify no contaminated water leaves the site. If damaged, BMP's will be adjusted as needed.

We do not expect to excavate into a water table and no construction discharge water is expected.

3.1 UIC Class 5 Injection Wells

There are no injection wells on site.

3.2 Discharge Information

Does your project/site discharge storm water into a Municipal Separate Storm Sewer System (MS4)? Yes No

List the MS4 that receives the discharge from the construction project:

Are there any surface waters that are located within 50 feet of your construction disturbances? Yes No

List the water body:

3.3 Receiving Waters

Table 1 – Names of Receiving Waters (see <http://wq.deq.utah.gov>)

--

1. North Fork Ogden River and tributaries from Pineview Reservoir to headwaters
2.
3.
4.
5.
6.

3.4 Impaired Waters

Table 2. - Impaired Waters (Answer the following for each surface water listed in Table 1 above) (see <http://wq.deq.utah.gov> look in the bottom half of the left hand column)

	Is this surface water listed as "impaired"?	If you answered yes, then answer the following:		
		What pollutant(s) are causing the impairment?	Has a TMDL been completed?	Pollutant(s) for which there is a TMDL
1.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
6.	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	

3.5 High Water Quality

Table 3 – High Water Quality (Answer the following for each surface water listed in Table 1 above) (see <http://wq.deq.utah.gov> look in the bottom half of the left hand column)

	Is this surface water designated as High Water Quality? (see Appendix C)	If you answered yes, specify which category the surface water is designated as?
1.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Category 1 <input type="checkbox"/> Category 2
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2
6.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2

3.6 Dewatering Practices

We do not expect to excavate into a water table and no construction discharge water is expected.

3.7 Control Storm Water Flowing onto and through the Project

3.7: Silt Fence	
BMP Description: Silt Fence Perimeter of downslopes	
Installation Schedule:	Before Earth Moving Activities
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood
3.7: Berm or swales to control flow direction	
BMP Description: Berm or Swale to direct stormwater flow to desirable discharge point	
Installation Schedule:	Prior to grubbing and clearing site and in conjunction with excavation
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood
3.7: Tracking Pad at entry	
BMP Description: Tracking Pad	
Installation Schedule:	At start of excavation activities
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood
3.7: Concrete Wash out.	
BMP Description: Concrete Wash Out Area / earth basin w/ poly liner.	
Installation Schedule:	Prior to Concrete being delivered
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood
3.7: Watle or Bales	
BMP Description: Watle or Bales in swales to prohibit silt migration	
Installation Schedule:	Before excavation activities
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood
3.7: Hydrosed	

BMP Description: Hydroseed to re-vegetate disturbed areas

<i>Installation Schedule:</i>	At conclusion of excavation activities and final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

3.7: Erosion Control Blankets

BMP Description: Apply Erosion Control Blankets to slopes steeper than 3:1

<i>Installation Schedule:</i>	As Needed / After final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

3.8 Protect Storm Drain Inlets

3.8: Catch Basin Protection

BMP Description: Catch Basin Protection / Drain Vault Protection - Gravel Bags w filter fabric liner

<i>Installation Schedule:</i>	Prior to excavation activities
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

SECTION 4: POLLUTION PREVENTION STANDARDS

4.1 Potential Sources of Pollution

Pollutant-Generating Activity	Pollutants or Pollutant Constituents (that could be discharged if exposed to storm water)	Location on Site (or reference SWPPP site map where this is shown)
Concrete Truck Washout	Concrete	Concrete Washout at Entry
Construction Trash	Garbage	Disposal Container on site
Sanitary / Septic waste	Septic Waste	Porta-Toilet on site
Vehicle Fueling	Fuel / Oils / Grease	Spill Kit on site

4.2 Non-Storm Water Discharges

Authorized Non-Storm Water Discharges	Comments
Dust Control with Water	Control spray to not run off -
Pipeline Flushing	Limit volume to not escape detention area

Include additional rows as necessary.

4.2: Pipe line flushing detention area.

BMP Description: *Small berm around end of pipe to hold flushed water until it evaporates.*

Installation Schedule:	At completion of line installation
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood

4.3 Natural Buffers or Equivalent Sediment Controls

Does not apply - No surface waters within 50 feet.

Buffer Compliance Alternatives

Are there any surface waters within 50 feet of your project's earth disturbances? YES NO

SECTION 5: EROSION AND SEDIMENT CONTROLS

5.1 Minimize Disturbed Area and Protect Natural Features and Soil

5.1: Silt Fence at perimeter so disturbance is limited to inside fence.

BMP Description: *Silt Fence at boundary of disturbance*

Installation Schedule:	Before Earth Moving Activities
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood

5.2 Establish Perimeter Controls and Sediment Barriers

5.2: Silt Fence at perimeter so disturbance is limited to inside fence.

BMP Description: *Silt Fence at boundary of disturbance*

5.3 Retain Sediment On-Site

<i>Installation Schedule:</i>	Before Earth Moving Activities
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.3: Perimeter berm at base of silt fence

BMP Description: Perimeter berm at base of silt fence

<i>Installation Schedule:</i>	Before Earth Moving Activities
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.4 Establish Stabilized Construction Exits

5.4: Tracking Pad at entrance

BMP Description: Tracking Pad 50 X 20 X .5 of 3-4" cobble

<i>Installation Schedule:</i>	At start of excavation activities
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.5 Protect Slopes

5.5: Erosion Control Blankets

BMP Description: Apply Erosion Control Blankets to slopes steeper than 3:1

<i>Installation Schedule:</i>	As Needed / After final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.5: Hydrosced

BMP Description: Hydrosced to re-vegetate disturbed areas

<i>Installation Schedule:</i>	At conclusion of excavation activities and final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or

<i>Inspection:</i>	repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.6 Stockpiled Soil or Other Erodible Material

Soils excavated for footings will be kept on the flat building pad within the protected area and sediment generated will not run off site. Water will be sprayed to avoid dust blowing from stockpiles.

5.7 Minimize Dust

<p>Instructions:</p> <ul style="list-style-type: none"> – Describe controls and procedures you will use at your project/site to minimize the generation of dust.
--

5.7: A Water tank with spray bar will be used to control dust.

BMP Description: Water tank with spray bar

<i>Installation Schedule:</i>	As needed
<i>Maintenance and Inspection:</i>	Continually as construction progresses
<i>Responsible Staff:</i>	Rick Henwood

5.7: Low stockpiles and low height when dumping spoils

BMP Description: Low stockpiles and low height when dumping spoils

<i>Installation Schedule:</i>	As needed
<i>Maintenance and Inspection:</i>	Continually as construction progresses
<i>Responsible Staff:</i>	Rick Henwood

5.8 Topsoil

This is a previously excavated site and there is no topsoil.

5.9 Soil Compaction

5.9 Restricted travel on areas to be revegetated. Slopes are too steep to travel on.

5.9: Erosion Control Blankets

BMP Description: Apply Erosion Control Blankets to slopes steeper than 3:1

Installation Schedule:		As Needed / After final grading
Maintenance and Inspection:		Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:		Rick Henwood
5: Hydrosseed		
BMP Description: Hydrosseed to re-vegetate disturbed areas		
Installation Schedule:		At conclusion of excavation activities and final grading
Maintenance and Inspection:		Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:		Rick Henwood

5.10 High Altitude/Heavy Snows

Date Snow is Expected	October	Actual:
		Scheduled: September
Date of High Altitude/Heavy Snow Conditions BMPs to be Installed		Date of First Heavy Snow

5.10: BMP's installed in prior sections will handle snow melt and run off. See above.	
BMP Description: Silt Fence, Wattle, Bales, Swales, Berms, etc. as described above	
Installation Schedule:	At start of excavation activities
Maintenance and Inspection:	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
Responsible Staff:	Rick Henwood

5.11 Chemical Treatment

No Chemicals will be used to treat soils

5.12 Stabilize Soils

5.12: Erosion Control Blankets
BMP Description: Apply Erosion Control Blankets to slopes steeper than 3:1

<i>Installation Schedule:</i>	As Needed / After final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.12: Hydroseed

BMP Description: Hydroseed to re-vegetate disturbed areas

<i>Installation Schedule:</i>	At conclusion of excavation activities and final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.13 Final Stabilization

5.13: Erosion Control Blankets

BMP Description: Apply Erosion Control Blankets to slopes steeper than 3:1

<i>Installation Schedule:</i>	As Needed / After final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

5.13: Hydroseed

BMP Description: Hydroseed to re-vegetate disturbed areas

<i>Installation Schedule:</i>	At conclusion of excavation activities and final grading
<i>Maintenance and Inspection:</i>	Daily observance, After Storm Activity Inspection, Modify or repair as necessary.
<i>Responsible Staff:</i>	Rick Henwood

SECTION 6: POLLUTION PREVENTION

6.1 Spill Prevention and Response

All fueling and maintenance procedures will be done in a contained area with spill kit available in case of accident. Only fuels contained in vehicle tanks will be on site. No storage tanks. Superintendent is trained on Spill Prevention Control and Countermeasures and will implement procedures.

Any discharges in 24 hours equal to or in excess of the reportable quantities listed in 40 CFR 117, 40 CFR 110, and 40 CFR 302 will be reported to the National Response Center and the Division of Water Quality (DWQ) as soon as practical after knowledge of the spill is known to the permittees. The permittee shall submit within 14 calendar days of knowledge of the release a written description of: the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and measures taken and/or planned to be taken to the Division of Water Quality (DWQ), 288 North 1460 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870. The Storm Water Pollution Prevention Plan must be modified within 14 calendar days of knowledge of the release to provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

Agency	Phone Number
National Response Center	(800) 424-8802
Division of Water Quality (DWQ) 24-Hr Reporting	(801)-231-1769 (801) 536-4123
Utah Department of Health Emergency Response	(801) 580-6681

6.2 Construction and Domestic Waste

Material	Media Released To	Reportable Quantity
Engine oil, fuel, hydraulic & brake fluid	Land	25 gallons
Paints, solvents, thinners	Land	100 lbs (13 gallons)
Engine oil, fuel, hydraulic & brake fluid	Water	Visible Sheen
Antifreeze, battery acid, gasoline, engine degreasers	Air, Land, Water	100 lbs (13 gallons)
Refrigerant	Air	1 lb

6.2: Trash Disposal Container	
<i>BMP Description: Trash Disposal Container placed onsite (20 Cubic Yard) Provided for all activities and sub contractors use.</i>	
<i>Installation Schedule:</i>	At start of Construction activities
<i>Maintenance and Inspection:</i>	Daily observance, empty as necessary.
<i>Responsible Staff:</i>	Rick Henwood

6.2: Garbage receptacles placed by the building and at lunch trailer site.	
<i>BMP Description: Small Garbage Can placed at building and lunch trailer sites.</i>	
<i>Installation Schedule:</i>	At start of Construction activities
<i>Maintenance and Inspection:</i>	Daily observance, empty as necessary.
<i>Responsible Staff:</i>	Rick Henwood

6.2: Temporary portable toilet	
<i>BMP Description: Temporary Portable Toilet placed and serviced regularly</i>	
<i>Installation Schedule:</i>	At start of Construction activities
<i>Maintenance and Inspection:</i>	Daily observance, serviced regularly.
<i>Responsible Staff:</i>	Rick Henwood

6.3 Washing of Applicators and Containers used for Concrete, Paint or Other Materials

6.3: Concrete Washout basin at construction entry

BMP Description: 5X5X3 Concrete wash out basin constructed by the entry/exit. Lined with poly liner for concrete to dry then disposed of offsite in a legal manner.

Installation Schedule:	At start of Construction activities
Maintenance and Inspection:	Daily observance, serviced regularly.
Responsible Staff:	Rick Henwood

6.4 Establish Proper Building Material Staging Areas

Wood and piping materials for the building will be stored temporarily onsite. They will be in the staging / parking area and will not create any danger to storm water run off contamination.

6.5 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

There will be a fueling area established within a bermed area so any spill cannot escape. A spill kit will be onsite and the onsite swpp operator is instructed in proper use and reporting practices. No Storage Tanks will be onsite.

6.5: Spill Kit in Superintendent truck/trailer.

BMP Description: Spill Kit	
Installation Schedule:	At start of construction
Maintenance and Inspection:	As needed
Responsible Staff:	Rick Henwood

6.6 Control Equipment/Vehicle Washing

No equipment washing will be required at this site

6.7 Pesticides, Herbicides, Insecticides, Fertilizers, and Landscape Materials.

No products will be applied to this site.

6.8 Other Pollution Prevention Practices

None noted.

SECTION 7: INSPECTIONS & CORRECTIVE ACTIONS

7.1 Inspections

- 1. Inspection Personnel:** Identify the person(s) who will be responsible for conducting inspections and describe their qualifications: Rick Henwood Site Superintendent.
Competent Person Training completed and site superintendent experience of 31 years.

- 2. Inspection Schedule:**

Minimum Inspection Requirements:

- At least once every 7 calendar days; or
 At least once every 14 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

Inspection Reports are filed in Appendix E

7.2 Corrective Actions

Correction Action Log will be filed on site in a SWPP Log Book / Manual

7.3 Delegation of Authority

The delegation of authority will be Richard E Henwood. He will keep this information on site with the SWPP Log Book / Manual

SECTION 8: TRAINING AND RECORDKEEPING

8.1 Training

Training documentation and log are will be in the SWPP Log Book / Manual and reviewed with the site superintendent who is responsible for all SWPP measures

8.2 Recordkeeping

Appendices A-M Shall be documented in an onsite SWPP Log Book / Manual

8.3 Log of Changes to the SWPPP

Amendments to the SWPPP are filed in Appendix G

SECTION 9: CERTIFICATION

General Contractor

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Bill F Lewis

Title: Assistant Project Manager

Signature:



Date: 8-5-2019

SWPPP APPENDICES

Attach the following documentation to the SWPPP:

Appendix A – General Location Map

Appendix B – Site Maps

Appendix C – Construction General Permit

***Appendix D – NOI, Local, County and other State Permits. and
Acknowledgement Letter from EPA/State/MS4***

Appendix E – Inspection Reports

Appendix F – Corrective Action Log (see CGP 5.4)

Appendix G – SWPPP Amendment Log (see CGP 7.4.3)

**Appendix H – Subcontractor
Certifications/Agreements/Delegation of
Authority (see GCP Appendix G16.1.2)**

**Appendix I – Grading and Stabilization Activities Log (see GCP
7.2.4.b)**

Appendix J – Training Log (see GCP 6)

Appendix K – Construction Plans

**Appendix L – Additional Information (i.e., Other permits such as
dewatering, stream alteration, wetland; and out of
date swppp documents)**

Appendix M – BMP Instruction and Detail Specifications

STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY
195 North 1950 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870 (801) 536-4300

NOI

Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity Under the UPDES General Permit
No. UTR395263 SEE REVERSE FOR INSTRUCTIONS

Submission of this Notice of Intent constitutes notice that the party(s) identified in Section I of this form intends to be authorized by UPDES General Permit No. UTR395263 issued for storm water discharges associated with construction activity in the State of Utah. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

Is this NOI seeking continuation for previously expired permit coverage at the same site? Y N

If yes, what is the number of the previous permit coverage? Permit No.

Permit Start Date 08/06/2019

Permit Expiration Date: 08/06/2020

I. OPERATOR INFORMATION

Name (Owner): Nelson Brothers Construction Company

Phone: 801-487-5401

Address: 347 West 1600 South

Status of Owner/Operator: PRIVATE

City: SALT LAKE CITY

State: UT Zip: 84115

Contact Person: Bill Lewis

Phone: 801-487-5401

Name (Operator): Nelson Brothers Construction Company

Phone: 801-487-5401

Address: 347 West 1600 South

Status of Owner/Operator: PRIVATE

City: SALT LAKE CITY

State: UT Zip: 84115

Contact Person: Bill Lewis

Phone: 801-487-5401

II. FACILITY SITE / LOCATION INFORMATION

Name: Bloomington Well Project

Is the facility located
in Indian Country?

Project No. (if any):

Y N

Address: 6965 E North Powder Mountain Road

County: WEBER

City: EDEN

State: UT Zip: 84310

Latitude: 41.368576

Longitude: -111.763098

Method (check one): USGS Topo Map, Scale EPA Web site GPS Other

III. SITE INFORMATION

Municipal Separate Storm Sewer System (MS4) Operator Name: Weber County

Receiving Water Body: Pineview Reservoir known

this is known this is a guess

Estimate of distance to the nearest water body? 9 miles

ft. miles.

Is the receiving water an impaired or high quality water body (see <http://wq.deq.utah.gov/>)? Yes No

List the Number of any other UPDES permits at the site:

IV. TYPE OF CONSTRUCTION (Check all that apply)

1. Residential 2. Commercial 3. Industrial 4. Road 5. Bridge 6. Utility

7. Contouring, Landscaping 8. Pipeline 9. Other (Please list)

INSTRUCTIONS

Notice Of Intent (NOI) For Permit Coverage Under the UPDES General Permit For Storm Water Discharges From Construction Activities

Who Must File A Notice Of Intent (NOI) Form State law at UAC R317-8-3.9 prohibits point source discharges of storm water from construction activities to a water body(ies) of the State without a Utah Pollutant Discharge Elimination System (UPDES) permit. The operator of a construction activity that has such a storm water discharge must submit a NOI to obtain coverage under the UPDES Storm Water General Permit. If you have questions about whether you need a permit under the UPDES Storm Water program, or if you need information as to whether a particular program is administered by EPA or a state agency, contact the storm water coordinator at (801) 536-4300.

Where To File NOI Form The preferred method of submitting an NOI to apply for the construction general storm water permit (CGP) is electronically on-line at <http://www.waterquality.utah.gov/UPDES/stormwatercon.htm>. The fee can be submitted on line also. If on-line is not an option for you send a paper form of the NOI to the following address:

Department of Environmental Quality
Division of Water Quality
P.O. Box 144870
Salt Lake City, UT 84114-4870

Beginning of Coverage CGP coverages are issued immediately after submitting an NOI with the permit fee. The permittee should be aware that though you may not have a permit in hand, if you have submitted a completed NOI with the permit fee you are covered by the conditions in the permit and will be expected to comply with permit conditions. You can print a copy of the CGP from the DWQ web site.

Permit Fees. The permit fee is \$150.00 per year. The fee is paid by Visa/Master Card on-line when an NOI is filed (by check if submitted with a paper NOI). If the project continues for more than one year the fee must be submitted again in a renewal process on-line. CGP coverage will not be issued until the fee is paid.

Length of Coverage: CGP coverage starts the day that the NOI and fee is received at DWQ and expires a year from issuance. All CGP coverages must be renewed within 60-days after the yearly expiration date, or be terminated with a notice of termination (NOT) before the expiration date. To terminate the permit the site must meet the permit conditions for final stabilization (see permit definitions), or must continue under a different permit holder. In most cases the DWQ or municipality of jurisdiction will perform a final inspection when a CGP coverage submits an NOT. If the site passes the final inspection the permit is terminated.

The Storm Water General Permit for Construction Activities UTRC00000 will expire on May 30, 2019. The Clean Water Act requires that all UPDES permits be renewed every 5 years. If a project extends beyond the expiration date of the Permit it must continue coverage under the renewed permit that will subsequently be developed to continue the same or similar permit coverage for construction activity.

SECTION I - FACILITY OPERATOR INFORMATION Supply the legal name(s) of the person(s), firm(s), public organization(s), or any other entity(ies) that qualifies as the owner of the project (see permit definitions). Do the same for the operator (most commonly the general contractor) that conducts the construction operation at the facility or site to be permitted. The owner and the general contractor of the project may be the same.

Enter the complete address and telephone number of the owner and operator and a contact person and number for each. Enter the appropriate letter to indicate the legal status of the operator of the facility.

F = Federal M = Public (other than Fed or State) S = State P = Private

SECTION II - FACILITY/SITE LOCATION INFORMATION Enter the facility name or legal name and project number (if any) of the site and complete street address, including city, state and ZIP code. The latitude and longitude of the facility must be included to the approximate centroid of the site, and the method of how the Lat/Long was obtained (USGS maps, GPS, Internet Map sites [such as Google Earth]), or other).

Indicate whether the facility is located in Indian Country. If the facility is located in Indian Country, do not complete this NOI, instead submit an application for coverage under a storm water permit to EPA Region VIII except for facilities on the Navajo Reservation or on the Goshute Reservation which should submit an application to EPA Region IX.

SECTION III - SITE ACTIVITY INFORMATION If the storm water discharges to a municipal separate storm sewer system (MS4), enter the name of the operator of the MS4 (e.g., the name of the City or County of jurisdiction) and the receiving water of the discharge from the MS4 if it is known (if it is not known please estimate or guess and indicate so). (An MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that is owned or operated by a state, city, town, county, district, association or other public body which is designed or used for collecting or conveying storm water).

For Impaired Waters: Go to <http://wq.deq.utah.gov> and identify the water body that will receive the storm water discharge from the permitted site, on the map provided at the web site (zoom in for easier resolution). On the left hand side of the page you will see "2010 Assessment" or "2013 Assessment" depending on the year you refer to the web site (the assessment is done every 3 years). The 20XX Assessment will indicate if the water is impaired. If there is nothing after 20XX Assessment or the narrative after does not include the word "impaired", your receiving water is not impaired.

For High Quality Waters: On the web page referred to in the paragraph above on the left hand side of the page you will see "Anti-Degradation Category". Under Anti-Degradation Category you will see the category of the water body. Only categories 1 and 2 are high quality water bodies. Some waters may be both categories 1 and 3. If your water body is both category 1 and 3 it means the headwaters of your water body is within Forest Service boundaries, and because it is within Forest Service boundaries it is category 1. If your project is within Forest Service boundaries then your water body is category 1 and it is "high quality". If your project is not within Forest Service boundaries then your water body is category 3 and is not "high quality". Again, category 1 waters are high quality waters, category 3 waters are not high quality waters.

SECTION IV - TYPE OF CONSTRUCTION Check each type of construction that applies to this application.

SECTION V - BEST MANAGEMENT PRACTICES Check each type of best management practice that will be used to control storm water runoff at the job site.

SECTION VI - GOOD HOUSEKEEPING PRACTICES Check each type of good housekeeping practice that you will use on the site any time during construction activities.

SECTION VII - ADDITIONAL Provide an estimate of the total number of acres of the site on which soil will be disturbed (to the nearest hundredth of an acre). An email address is required of the best contact associated with the project for the communication needs.

SECTION VIII - CERTIFICATION State statutes provide for severe penalties for submitting false information on this application form. State regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or

For a municipality, state, Federal, or other public facility: by either a principal executive officer or ranking elected official.

POLLUTION PREVENTION PLAN A storm water pollution prevention plan (SWP3) is required to be in hand before the NOI can be submitted. It is important to know SWP3 requirements (contained in the permit) even during the design portion of the project. A copy of the permit can be obtained from the Division of Water Quality's storm water construction web site. Guidance material for developing a SWP3 can be obtained from the Division of Water Quality's storm water construction web site.

V. BEST MANAGEMENT PRACTICES

Identify proposed Best Management Practices (BMPs) to reduce pollutants in storm water discharges (Check all that apply):

- 1. Silt Fence/Straw Wattle/Perimeter Controls
- 2. Sediment Pond
- 3. Seeding/Preservation of Vegetation
- 4. Mulching/Geotextiles
- 5. Check Dams
- 6. Structural Controls (Berms, Ditches, etc.)
- 7. Other (Please list)

VI. GOOD HOUSEKEEPING PRACTICES

Identify proposed Good Housekeeping Practices to reduce pollutants in storm water discharges (Check all that apply even if they apply only during a part of the construction time):

- 1. Sanitary/Portable Toilet
- 2. Washout Areas
- 3. Construction Chemicals/Building Supplies Storage Area
- 4. Garbage/Waste Disposal
- 5. Non-Storm Water
- 6. Track Out Controls
- 7. Spill Control Measures

VII. ADDITIONAL

Estimated Area to be Disturbed (in Acres): 1.10

Total Area of Plot (in Acres): 1.10

A storm water pollution prevention plan has been prepared for this site and is to the best of my knowledge in Compliance with State and/or Local Sediment and Erosion Plans and Requirements. Y N
(A pollution prevention plan is required to be on hand before submittal of the NOI.)

Enter the best e-mail address to contact the permittee: blewis@nelsonbros.com

VIII. CERTIFICATION: I certify under penalty of law that I have read and understand the Part 1 eligibility requirements for coverage under the general permit for storm water discharges from construction activities. I further certify that to the best of my knowledge, all discharges and BMPs that have been scheduled and detailed in a storm water pollution prevention plan will satisfy requirements of this permit. I understand that continued coverage under this storm water general permit is contingent upon maintaining eligibility as provided for in Part 1.

I also certify under penalty of law that this document and all attachments were prepared under the direction or supervision of those who have placed their signature(s) below, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name (Owner):

Date: 8/6/2019

Nelson Brothers Construction Company

Signature: Bill J Lewis

Print Name (Operator):

Date: 8/6/2019

Nelson Brothers Construction Company

Signature: Bill J Lewis

Amount of Permit Fee Enclosed: \$ 150.00

Weber County Stormwater Construction Activity Permit

Application submittals will be accepted by appointment only. (801) 399-8374. 2380 Washington Blvd. Suite 240, Ogden, UT 84401

Date Submitted	Fees (Office Use)	Receipt Number (Office Use)	Priority Site (Office Use) <input type="radio"/> Yes <input type="radio"/> No	Permit Number (Office Use)
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Property Owner/Authorized Representative Contact Information		Project Information	
Name of Property Owner(s)/Authorized Representative(s) <i>NELSON BROS CONST. CO / BILL LEWIS</i>		Project Name <i>BLOOMINGTON WELL PROJECT</i>	
Phone <i>801 487 5401 ext 108</i>	Fax <i>801 487 5418</i>	Project Address <i>7670 E. SUMMIT PASS ROAD EDEN, UTAH</i>	
Email Address <i>blewis@nelsonbros.com</i>			
Mailing Address of Property Owner(s)/Authorized Representative(s) <i>347 W. 1600 S. SALT LAKE CITY, UT 84115</i>			
		Estimated Project Length (mo) <i>1 year</i>	Previous Permit No. (if applicable)
		Estimated Start Date <i>SEPT 1 2019</i>	Actual Start Date

Submittal Checklist

The application shall include a Storm Water Pollution Prevention Plan which meets the criteria set forth in Section 33-3-4 of the county ordinances.

The applicant shall file the application on or before the following dates:

Subdivision: The date that the applicant submits the preliminary subdivision development plat application.
Site Plan: The date that the applicant submits a site plan application or amended site plan.
Building Permit: The date that the applicant submits a building permit application if the applicant proposes to construct a building on an existing lot or parcel.
Land Use Permit: The date that the applicant submits a land use permit application.
Other: At least two (2) weeks before the developer intends to perform any type of work not listed above that would require a Storm Water Construction Activity Permit pursuant to this Chapter.

Failure to acquire a required Storm Water Construction Activity Permit is grounds for tabling a related subdivision application, site plan application, conditional use permit application, or building permit application. It is unlawful to commence work (move dirt) on a development site before obtaining a required Storm Water Construction Activity Permit.

Note: A pre-construction meeting is required before performing any on-site earth work, unless waived by the county engineer.

Applicant Narrative

Please explain your request.
Building Permit For BLOOMINGTON WELL/PUMP HOUSE PROJECT AT POWDER MOUNTAIN SKI RESORT

Authorization

By signing below the Owner / Representative authorizes the county to enter the property to perform inspections.

Owner or Authorized Representative Signature <i>Bill F. Lewis</i>	Date <i>8/16/19</i>
Signature of Approval	Date

Appendix H – *Sample* Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

Signature: _____

Title: _____

Date: _____

Delegation of Authority

I, _____, hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the UPDES "General Permit for Storm Water Discharges Associated with Construction Activity" (CGP), at the construction site:

_____, Permit No. UTR _____,

The designee is authorized to sign all reports required by the Permit and other information requested by the Director of the Utah Division of Water Quality, or by an authorized representative of the Executive Secretary.

Name of Person or Position: _____

Owner/Operator: _____

Mailing Address: _____

City, State, Zip Code: _____

Phone Number: _____

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Part G.16.1.2. of the CGP, and that the designee above meets the definition of a "duly authorized representative" as set forth in Part G.16.1.2 of the CGP.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _____

Title: _____

Signature: _____

Date: _____

Appendix J – Sample SWPPP Training Log

Stormwater Pollution Prevention Training Log

Project Name: _____

Project Location: _____

Instructor's Name(s): _____

Instructor's Title(s): _____

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: *(check as appropriate)*

- Erosion Control BMPs
- Sediment Control BMPs
- Non-Stormwater BMPs
- Good Housekeeping BMPs
- Emergency Procedures

Specific Training Objective: _____

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Appendix K – Sample Delegation of Authority Form

Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

_____ (name of person or position)
_____ (company)
_____ (address)
_____ (city, state, zip)
_____ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in _____ (Reference State Permit), and that the designee above meets the definition of a “duly authorized representative” as set forth in _____ (Reference State Permit).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

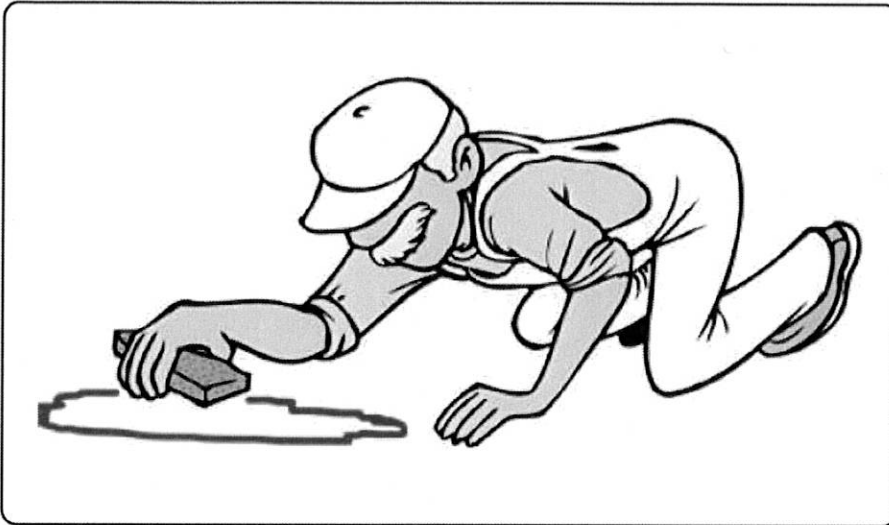
Name: _____

Company: _____

Title: _____

Signature: _____

Date: _____

**DESCRIPTION:**

Practices to clean-up leakage/spillage of on-site materials that may be harmful to receiving waters.

APPLICATION:

- ▶ All sites

GENERAL:

- ▶ Store controlled materials within a storage area.
- ▶ Educate personnel on prevention and clean-up techniques.
- ▶ Designate an Emergency Coordinator responsible for employing preventative practices and for providing spill response.
- ▶ Maintain a supply of clean-up equipment on-site and post a list of local response agencies with phone numbers.

METHODS:

- ▶ Clean-up spills/leaks immediately and remediate cause.
- ▶ Use as little water as possible. NEVER HOSE DOWN OR BURY SPILL CONTAMINATED MATERIAL.
- ▶ Use rags or absorbent material for clean-up. Excavate contaminated soils. Dispose of clean-up material and soil as hazardous waste.
- ▶ Document all spills with date, location, substance, volume, actions taken and other pertinent data.
- ▶ Contact local Fire Department and State Division of Environmental Response and Remediation (Phone #536-4100) for any spill of reportable quantity.

OBJECTIVES

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas
- Stabilize Disturbed Areas
- Protect Slopes/Channels
- Control Site Perimeter
- Control Internal Erosion



WEBER COUNTY

ENGINEERING DEPARTMENT

2380 Washington Blvd., Suite 240
Ogden, UT 84401
(801) 399-8374

TARGETED POLLUTANTS

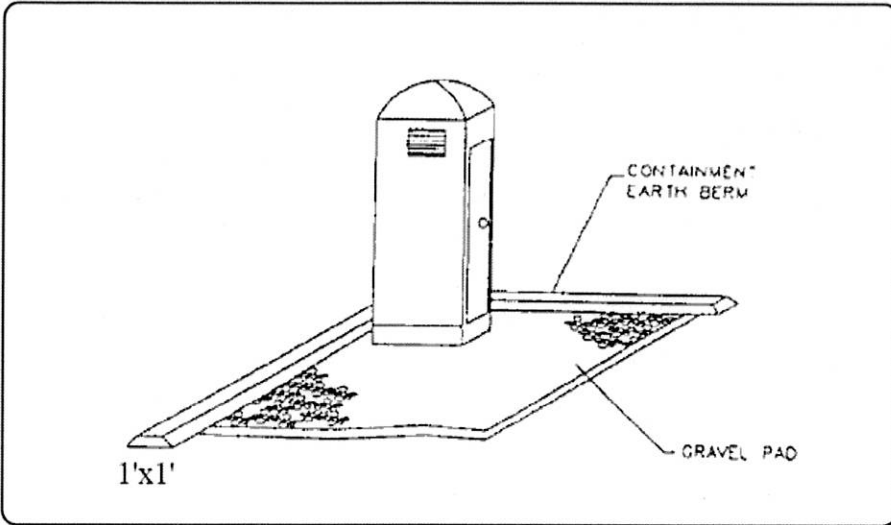
- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Waste

- High Impact
- Medium Impact
- Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- Training

- High
- Medium
- Low



DESCRIPTION:

Temporary on-site sanitary facilities for construction personnel.

APPLICATION:

- ▶ All sites with no permanent sanitary facilities or where permanent facility is too far from activities.

INSTALLATION/APPLICATION CRITERIA:

- ▶ Locate portable toilets in convenient locations throughout the site.
- ▶ Prepare level, gravel surface and provide clear access to the toilets for servicing and for on-site personnel.
- ▶ Construct earth berm perimeter (See Earth Berm Barrier Information Sheet), control for spill/protection leak.

LIMITATIONS:

No limitations.

MAINTENANCE:

- ▶ Portable toilets should be maintained in good working order by licensed service with daily observation for leak detection.
- ▶ Regular waste collection should be arranged with licensed service.
- ▶ All waste should be deposited in sanitary sewer system for treatment with appropriate agency approval.

OBJECTIVES

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas
- Stabilize Disturbed Areas
- Protect Slopes/Channels
- Control Site Perimeter
- Control Internal Erosion



WEBER COUNTY

ENGINEERING DEPARTMENT

2380 Washington Blvd., Suite 240
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TARGETED POLLUTANTS

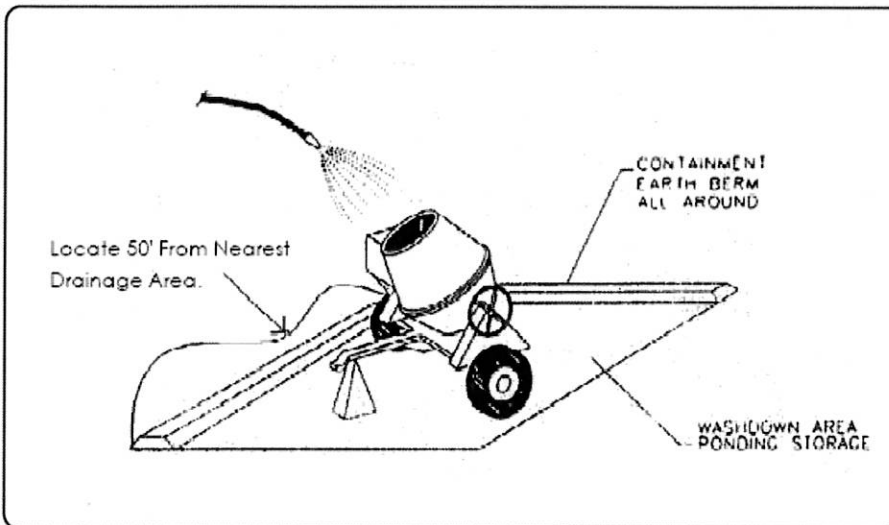
- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Waste

- High Impact
- Medium Impact
- Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- Training

- High
- Medium
- Low



DESCRIPTION:

Prevent or reduce the discharge of pollutants to storm water from concrete waste by conducting washout off-site, performing on-site washout in a designated area, and training employees and subcontractors.

APPLICATIONS:

- ▶ This technique is applicable to all types of sites.

INSTALLATION/APPLICATION CRITERIA:

- ▶ Store dry and wet materials under cover, away from drainage areas.
- ▶ Avoid mixing excess amounts of fresh concrete or cement on-site.
- ▶ Perform washout of concrete trucks off-site or in designated areas only.
- ▶ Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- ▶ Do not allow excess concrete to be dumped on-site, except in designated areas.
- ▶ When washing concrete to remove fine particles and expose the aggregate, avoid creating runoff by draining the water within a bermed or level area. (See Earth Berm Barrier information sheet.)
- ▶ Train employees and subcontractors in proper concrete waste management.

LIMITATIONS:

- ▶ Off-site washout of concrete wastes may not always be possible.

MAINTENANCE:

- ▶ Inspect subcontractors to ensure that concrete wastes are being properly managed.
- ▶ If using a temporary pit, dispose hardened concrete on a regular basis.

OBJECTIVES

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas
- Stabilize Disturbed Areas
- Protect Slopes/Channels
- Control Site Perimeter
- Control Internal Erosion



WEBER COUNTY

ENGINEERING DEPARTMENT

2380 Washington Blvd., Suite 240
Ogden, UT 84401
(801) 399-8374

TARGETED POLLUTANTS

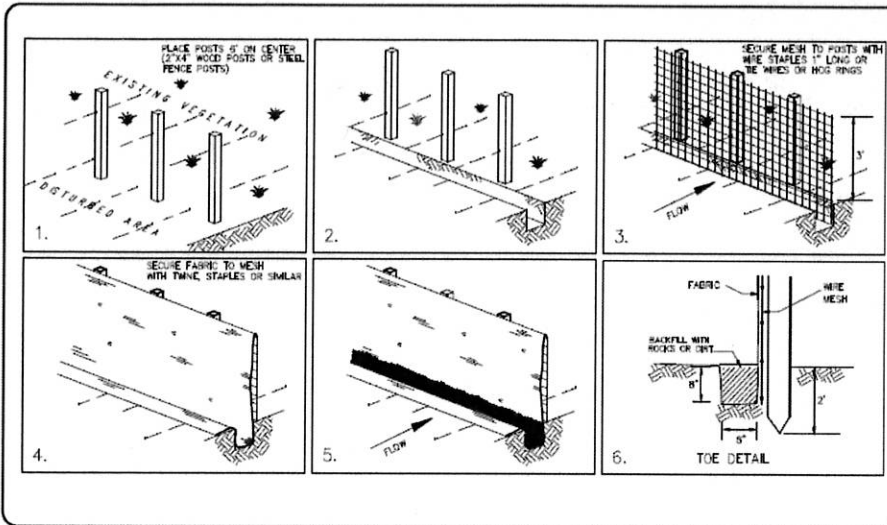
- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Waste

- High Impact
- Medium Impact
- Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- Training

- High
- Medium
- Low



- ### OBJECTIVES
- Housekeeping Practices
 - Contain Waste
 - Minimize Disturbed Areas
 - Stabilize Disturbed Areas
 - Protect Slopes/Channels
 - Control Site Perimeter
 - Control Internal Erosion



WEBER COUNTY

ENGINEERING DEPARTMENT

2380 Washington Blvd., Suite 240
 Ogden, UT 84401
 (801) 399-8374

DESCRIPTION:

- ▶ A temporary sediment barrier consisting of entrenched filter fabric stretched across and secured to supporting posts.

APPLICATION:

- ▶ Perimeter control: place barrier at downgradient limits of disturbance
- ▶ Sediment barrier: place barrier at toe of slope or soil stockpile
- ▶ Protection of existing waterways: place barrier at top of stream bank
- ▶ Inlet protection: place fence surrounding catchbasins

INSTALLATION/APPLICATION CRITERIA:

- ▶ Place posts 6 feet apart on center along contour (or use preassembled unit) and drive 2 feet minimum into ground. Excavate an anchor trench immediately upgradient of posts.
- ▶ Secure wire mesh (14 gage min. With 6 inch openings) to upslope side of posts. Attach with heavy duty 1 inch long wire staples, tie wires or hog rings.
- ▶ Cut fabric to required width, unroll along length of barrier and drape over barrier. Secure fabric to mesh with twine, staples, or similar, with trailing edge extending into anchor trench.
- ▶ Backfill trench over filter fabric to anchor.

LIMITATIONS:

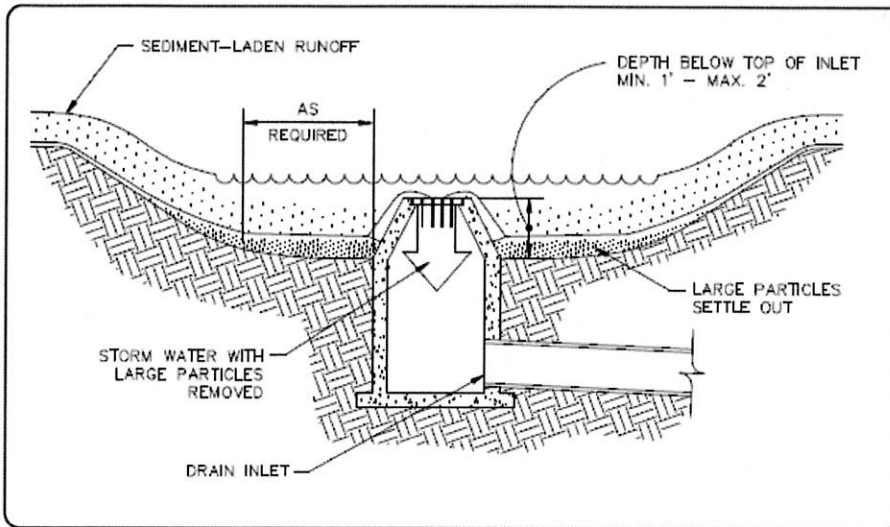
- ▶ Recommended maximum drainage area of 0.5 acre per 100 feet of fence
- ▶ Recommended maximum upgradient slope length of 150 feet
- ▶ Recommended maximum uphill grade of 2:1 (50%)
- ▶ Recommended maximum flow rate of 0.5 cfs
- ▶ Ponding should not be allowed behind fence

MAINTENANCE:

- ▶ Inspect immediately after any rainfall and at least daily during prolonged rainfall.
- ▶ Look for runoff bypassing ends of barriers or undercutting barriers.
- ▶ Repair or replace damaged areas of the barrier and remove accumulated sediment.
- ▶ Reanchor fence as necessary to prevent shortcutting.
- ▶ Remove accumulated sediment when it reaches 1/2 the height of the fence.

- ### TARGETED POLLUTANTS
- Sediment
 - Nutrients
 - Toxic Materials
 - Oil & Grease
 - Floatable Materials
 - Other Waste
-
- High Impact
 - Medium Impact
 - Low or Unknown Impact

- ### IMPLEMENTATION REQUIREMENTS
- Capital Costs
 - O&M Costs
 - Maintenance
 - Training
-
- High
 - Medium
 - Low



DESCRIPTION:

An area excavated around a storm drain inlet to impound water below the inlet.

APPLICATION:

- ▶ Construct at storm drainage inlets located downgradient of areas to be disturbed by construction (for inlets in paved areas see other information sheets for inlet protection).

INSTALLATION/APPLICATION CRITERIA:

- ▶ Provide upgradient sediment controls, such as silt fence during construction of inlet.
- ▶ When construction of inlet is complete, excavate adjacent area 1 to 2 feet lower than the grate elevation. Size of excavated area should be based on soil type and contributing acreage.

LIMITATIONS:

- ▶ Recommended maximum contributing drainage area of one acre.
- ▶ Limited to inlets located in open unpaved areas.
- ▶ Requires flat area adjacent to inlet.

MAINTENANCE:

- ▶ Inspect inlet protection following storm event and at a minimum of once monthly.
- ▶ Remove accumulated sediment when it reaches one half of the excavated sump below the grate.
- ▶ Repair side slopes as required.

OBJECTIVES

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas
- Stabilize Disturbed Areas
- Protect Slopes/Channels
- Control Site Perimeter
- Control Internal Erosion



WEBER COUNTY

ENGINEERING DEPARTMENT

2380 Washington Blvd., Suite 240
Ogden, UT 84401
(801) 399-8374

TARGETED POLLUTANTS

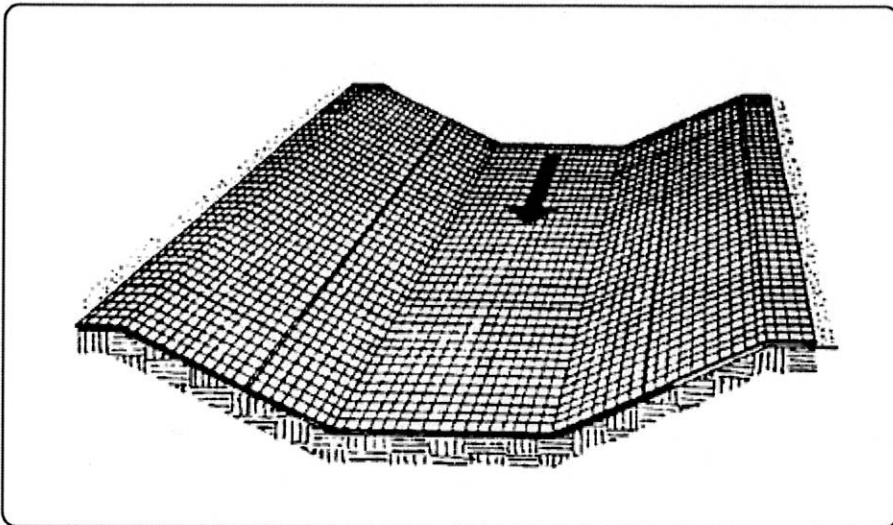
- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Waste

- High Impact
- Medium Impact
- Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- Training

- High
- Medium
- Low



DESCRIPTION:

- ▶ Erosion control blankets are used in place of mulch on areas of high velocity runoff and/or steep grade, to aid in controlling erosion on critical areas by protecting young vegetation.

APPLICATIONS:

- ▶ Where vegetation is likely to grow too slowly to provide adequate cover.
- ▶ In areas subject to high winds where mulch would not be effective.

INSTALLATION/APPLICATION CRITERIA:

- ▶ Install erosion control blankets parallel to the direction of the slope.
- ▶ In ditches, apply in direction of the flow.
- ▶ Place erosion control blankets loosely on soil - do not stretch.
- ▶ Ends of blankets should be buried no less than six inches deep.
- ▶ Staple the edges of the blanket at least every three feet.

LIMITATIONS:

- ▶ Not recommended in areas which are still under construction.

MAINTENANCE:

- ▶ Check for erosion and undermining periodically, particularly after rainstorms.
- ▶ Repair dislocations or failures immediately.
- ▶ If washouts occur, reinstall after repairing slope damage.
- ▶ Monitor until permanently stabilized.

OBJECTIVES

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas
- Stabilize Disturbed Areas
- Protect Slopes/Channels
- Control Site Perimeter
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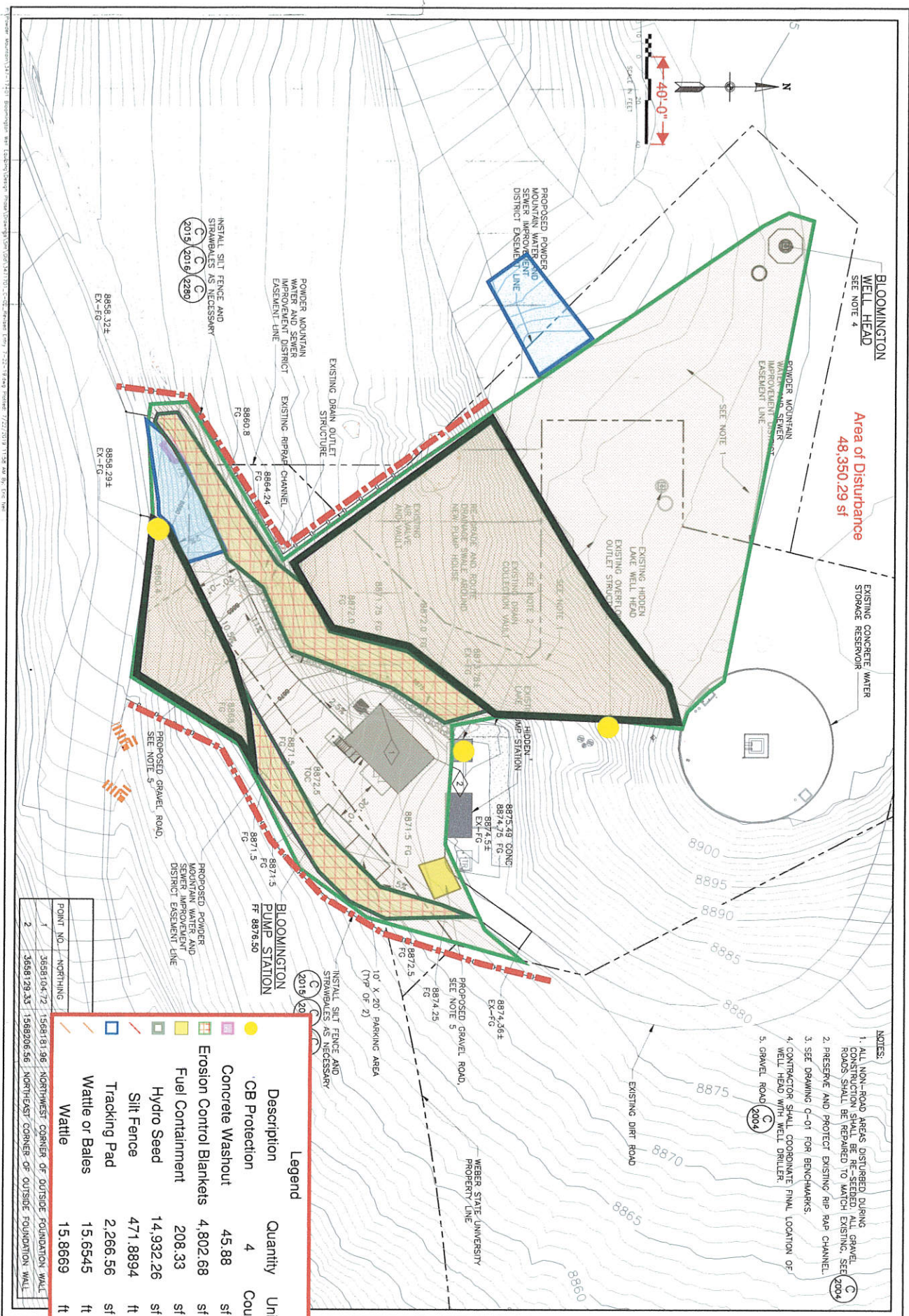
- Sediment
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- Floatable Materials
- Other Waste

- High Impact
- Medium Impact
- Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- Training

- High
- Medium
- Low



BLOOMINGTON WELL HEAD
SEE NOTE 4
Area of Disturbance
48,350.29 sf

- NOTES:**
1. ALL NON-ROAD AREAS DISTURBED DURING CONSTRUCTION SHALL BE RE-SEEDED. ALL GRAVEL ROADS SHALL BE PREPARED TO MATCH EXISTING. SEE 2004.
 2. PRESERVE AND PROTECT EXISTING RIP RAP CHANNEL.
 3. SEE DRAWING C-01 FOR BENCHMARKS.
 4. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF WELL HEAD WITH WELL DRILLER.
 5. GRAVEL ROAD 2004.

Legend	
●	CB Protection
■	Concrete Washout
■	Erosion Control Blankets
■	Fuel Containment
■	Hydro Seed
■	Silt Fence
■	Tracking Pad
■	Wattle or Bales
■	Wattle

POINT NO.	NORTHING
1	3568104.72
2	3568129.35

GRADING PLAN SUMMIT MOUNTAIN HOLDING GROUP BLOOMINGTON WELL PROJECT WEBER COUNTY, UTAH		<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REV BY</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REV BY	DESCRIPTION				
NO.	DATE		REV BY	DESCRIPTION						
DESIGN: E. NEIL DRAWN: R. GARCIA	REVIEW: J. BECKMAN APPROVED: E. NEIL	VERIFIED BY: A. S. ONE (SCALE) BAR IS ONE INCH = 40 FEET ORIGINAL DRAWING								

DRAWING NO. C-02
 SHEET 6 OF 46
 DATE: MAY 2019
 PROJECT NUMBER: 347-17-01

BOWEN COLLINS & ASSOCIATES



Utah Department of Environmental Quality

195 North 1950 West
Salt Lake City, Utah 84114-4820
Attn: DAQ, Fugitive Dust Control Plan

Fugitive Dust Control Plan Application

Applicants have the option to complete the online dust control plan on the DEQ Online Services webpage or to submit a hard copy application.

Activities regulated by R307-309 may not commence before obtaining approval of the fugitive dust control plan. Therefore, online filing is encouraged because it provides instant approval.

Blank spaces must be completed for the application to be processed. If not applicable, enter N/A.

1. Applicant Information

Name: Nelson Brothers Construction Company
Address: 347 West 1600 South SALT LAKE CITY, UT 84115
Phone: 801-487-5401
Email: blewis@nelsonbros.com
Applicant Type:

2. Project Information

Project Name: Bloomington Well Project
Address: 6965 E North Powder Mountain Road ALPINE, UT 84310
County: WEBER
Directions: At Powder Mountain Ski Lodge
Acreage: 1.1
Latitude: 41.368576
Longitude: -111.763098

3. Point of Contact

Name: Bill Lewis

Company Name: Nelson Brothers Construction Company

Address: 347 West 1600 South Salt Lake City, UT 84115

Phone: 8014875401-108

Fax: 8014875418

Cell: 801-381-1920

4. On-site Superintendent/Supervisor/Foreman Contact

Name: Rick Henwood

Company Name: Nelson Brothers Construction Company

On-Site Phone: 801-301-7481

Cell: 801-301-7481

5. By signing this permit application I certify that:

A. I am authorized, on behalf of the individual or company listed in Section 1, as Applicant, to apply for a Fugitive Dust Control Plan and to commit to all of the terms and conditions of the requested plan.

B. Construction activities will be limited to lands that the applicant either owns or is authorized to use for construction activities.

C. The applicant accepts responsibility for assuring that all contractors, subcontractors, and all other persons on the construction site covered by this plan, comply with the terms and conditions of the Fugitive Dust Control Plan.

D. I understand that any false material statement, representation or certification made in this application may invalidate the plan or cause me to be subject to enforcement action pursuant to Utah Code Ann. 19-2-115.

E. Failure to comply with fugitive dust rules may result in compliance action and penalties up to \$10,000 per violation/day.

Date: 08/06/2019

Printed Name: Nelson Brothers Construction Company

Title: null

Company Name: Nelson Brothers Construction Company

Dust Plan Number: 21473

Dust Suppressants

	Check All that Apply
	Clay additives.
	Calcium chloride.
	Lime (calcium oxide).
	Magnesium chloride.
	Organic non-petroleum products, (ligninsulfonate, tall (pine) oil, and vegetable derivatives).
	Synthetic polymers (for example; polyvinyl acetate and vinyl acrylic).

FUGITIVE DUST CONTROL PLAN

PROJECT ACTIVITIES CHECKLIST INSTRUCTIONS:

PLACE A CHECK MARK NEXT TO EVERY ACTIVITY THAT WILL BE CONDUCTED ON THIS SITE, FOR EACH CHECKED ACTIVITY, COMPLETE THE CORRESPONDING CONTROL MEASURES/BEST MANAGEMENT PRACTICE (BMP) SELECTION PAGE. WHEN COMPLETED, YOU WILL HAVE THE OPTION TO PRINT THE ENTIRE PLAN.

Check All that Apply	Project Activity	
<input checked="" type="checkbox"/>	Backfilling area previously excavated or trenched.	01
	Blasting soil & rock - drilling and blasting.	02
<input checked="" type="checkbox"/>	Clearing for site preparation and vacant land cleanup.	03
	Clearing forms, foundations, slab clearing and cleaning of forms, foundations and slabs prior to pouring concrete.	04
	Crushing of construction and demolition debris, rock and soil.	05
<input checked="" type="checkbox"/>	Cut and fill soils for site grade preparation.	06
	Demolition - Implosive demolition of a structure, using explosives.	07
	Demolition - mechanical/manual demolition of walls, stucco, concrete, freestanding structures, buildings and other structures.	08
<input checked="" type="checkbox"/>	Disturbed soil throughout project including between structures. THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS.	09
	Disturbed land - long term stabilization and erosion control of large tracts of disturbed land that will not have continuing activity for more than 30 days.	10
<input checked="" type="checkbox"/>	Hauling materials.	11
	Paving/subgrade preparation for paving streets, parking lots, etc.	12
	Sawing/cutting material, concrete, asphalt, block or pipe.	13
	Screening of rock, soil or construction debris.	14
<input checked="" type="checkbox"/>	Staging areas, equipment storage, vehicle parking lots, and material storage areas.	15
<input checked="" type="checkbox"/>	Stockpiles materials (storage), other soils, rock or debris, for future use or export.	16
	Tailings piles, ponds and erosion control.	17

18	Trackout Prevention and Cleanup of mud, silt and soil tracked out onto paved roads.	X
19	Traffic - unpaved routes and parking, construction related traffic on unpaved interior and/or access roads and unpaved employee/worker parking areas.	X
20	Trenching with track or wheel mounted excavator, shovel, backhoe or trencher.	X
21	Truck loading with materials including construction and demolition debris, rock and soil.	X

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

BMP 01

Backfilling area previously excavated or trenched.

01-01	X	Water backfill material to maintain moisture or to form crust.
01-02	-	Apply and maintain a chemical stabilizer to backfill material to form crust.
01-03	-	Cover (natural or synthetic) or enclose backfill material when not actively handling.

Stabilize backfill material when not actively handling.

01-04	X	Empty loader bucket slowly and minimize drop height from loader bucket.
01-05	X	Dedicate water truck or large hose to backfilling equipment and apply water as needed.
01-06	-	Mix moist soil with dry soil until the optimum moisture is reached.
01-07	-	Apply and mix water into the backfill material until optimum moisture is reached.
01-08	-	Apply and mix water and chemical solution into the backfill material until optimum moisture is reached.

Stabilize soil at completion of backfilling activity.

01-09	X	Apply water and maintain disturbed soils in a stable condition.
01-10	-	Apply and maintain a chemical stabilizer on disturbed soils to form a crust.

Stabilize material while using pipe padder equipment.

01-11	-	Mix moist soil with dry soil until the optimum moisture is reached.
01-12	X	Dedicate water truck or large hose to equipment and apply water as needed.
01-13	-	Not Applicable

Clearing for site preparation and vacant land cleanup.

BMP 03

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Stabilize surface soils where support equipment and vehicles will operate.

03-01

Pre-water and maintain surface soils in a stabilized condition.

03-02

Apply and maintain a chemical stabilizer on surface soils.

Stabilize disturbed soil immediately after clearing and grubbing activities.

03-03

Water disturbed soils to form crust.

03-04

Apply and maintain a chemical stabilizer on disturbed soils to form crust.

Stabilize slopes at completion of activity.

03-05

Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slope.

03-06

Apply water and maintain sloping surfaces/wind breaks in a crusted condition.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

BMP 06

Cut and fill soils for site grade preparation.

Stabilize surface soils where support equipment and vehicles will operate.

X 06-01 Pre-water and maintain surface soils in a stabilized condition.

06-02 Apply and maintain a chemical stabilizer to surface soils.

Pre-water soils.

X 06-03 Dig a test hole to depth of cut or equipment penetration to determine if soils are moist at depth. Continue to pre-water if not moist to depth of cut.

Stabilize soil during cut activities.

X 06-04 Apply water to depth of cut prior to subsequent cuts.

Stabilize soil after cut and fill activities.

X 06-05 Water disturbed soils to maintain moisture.

06-06 Apply and maintain a chemical stabilizer on disturbed soils to form crust following fill and compaction.

06-07 Apply cover (natural or synthetic).

Disturbed soil throughout project including between structures. THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS.

BMP 09

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Limit disturbance of soils where possible.

09-01

Limit disturbance of soils with the use of fencing, barriers, barricades, and/or wind barriers.

09-02

Limit vehicle mileage and reduce speed.

Stabilize and maintain stability of all disturbed soil throughout construction site.

09-03

Apply water to stabilize disturbed soils. Soil moisture must be maintained such that soils can be worked without generating fugitive dust.

09-04

Apply and maintain a chemical stabilizer.

09-05

Use wind breaks.

09-06

Apply cover (natural or synthetic).

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

BMP 11

Hauling materials.

Limit visible dust opacity from vehicular operations.

11-01	-	Apply and maintain water/chemical suppressant to operational areas and haul routes.
11-02	X̄	Limit vehicle mileage and speed.

Stabilize materials during transport on site.

11-03	-	Use tarps or other suitable enclosures on haul trucks.
11-04	X̄	Apply water prior to transport.

Clean wheels and undercarriage of haul trucks prior to leaving construction site.

11-05	-	Clean wheels.
11-06	X̄	Sweep or water haul road.

Staging areas, equipment storage, vehicle parking lots, and material storage areas. **BMP 15**

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Limit visible dust opacity from vehicular operations.

- | | |
|---|--|
| <input checked="" type="checkbox"/> 15-01 | Limit vehicle mileage and speed. |
| <input type="checkbox"/> 15-02 | Apply water on all vehicle traffic areas in the staging areas and unpaved access routes. |

Stabilize staging area soils during use.

- | | |
|---|---|
| <input checked="" type="checkbox"/> 15-03 | Pre-water and maintain surface soils in a stabilized condition. |
| <input type="checkbox"/> 15-04 | Apply and maintain a chemical stabilizer to surface soils. |

Stabilize staging area soils at project completion.

- | | |
|---|---|
| <input type="checkbox"/> 15-05 | Apply a chemical stabilizer. |
| <input checked="" type="checkbox"/> 15-06 | Apply screened or washed aggregate. |
| <input type="checkbox"/> 15-07 | Use wind breaks. |
| <input type="checkbox"/> 15-08 | Pave. |
| <input type="checkbox"/> 15-09 | Completed project will cover staging area with buildings, paving, and/or landscaping. |
| <input type="checkbox"/> 15-10 | Apply water to form adequate crust and prevent access. |

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Stabilize surface soils where support equipment and vehicles will operate.

X	16-01	Pre-water and maintain surface soils in a stabilized condition.
-	16-02	Apply and maintain a chemical stabilizer on surface soils.
-	16-03	Pave area.

Stabilize stockpile materials during handling.

-	16-04	Remove material from the downwind side of the stockpile, when safe to do so.
X	16-05	Reduce height.
-	16-06	Create wind screen

Stabilize stockpiles after handling.

-	16-07	Water stockpiles to form a crust immediately.
-	16-08	Apply and maintain a chemical stabilizer to all outer surfaces of the stockpiles.
-	16-09	Provide and maintain wind barriers on 3 sides of the pile.
-	16-10	Apply a cover (natural or synthetic)
-	16-11	Wind screen.
-	16-12	Avoid steep sides to prevent material sloughing.
X	16-13	Reduce height.

Stockpiles materials (storage), other soils, rock or debris, for future use or export.
BMP 16

Trackout Prevention and Cleanup of mud, silt and soil tracked out onto paved roads.

BMP 18

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Prevent dust from trackout.

<input type="checkbox"/> 18-01	Clean trackout at the end of the work shift from paved surfaces to maintain dust control
<input checked="" type="checkbox"/> 18-02	Maintain dust control during working hours and clean trackout from paved surfaces at the end of the work shift/day.
<input type="checkbox"/> 18-03	Install gravel pad(s), clean, well-graded gravel or crushed rock. Minimum dimensions must be 30 feet wide by 3 inches deep, and, at minimum, 50' or the length of the longest haul truck, whichever is greater. Re-screen, wash or apply additional rock in gravel pad to maintain effectiveness.
<input type="checkbox"/> 18-04	Install wheel shakers. Clean wheel shakers on a regular basis to maintain effectiveness.
<input type="checkbox"/> 18-05	Install wheel washers. Maintain wheel washers on a regular basis to maintain effectiveness.
<input type="checkbox"/> 18-06	Motorized vehicles will only operate on paved surfaces.
<input type="checkbox"/> 18-07	Install cattle guard before paved road entrance.

All exiting traffic must be routed over selected trackout control device(s).

<input checked="" type="checkbox"/> 18-08	Clearly establish and enforce traffic patterns to route traffic over selected trackout control device(s).
<input type="checkbox"/> 18-09	Limit site accessibility to routes with trackout control devices in place by installing effective barriers on unprotected routes.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION.

Stabilize surface soils where support equipment and vehicles will operate.

X	19-01	Limit vehicle mileage and speeds.
-	19-02	Apply and maintain water on surface soils.
-	19-03	Apply and maintain chemical stabilizers on surface soils.
-	19-04	Apply and maintain gravel on surface soils.
-	19-05	Supplement chemical stabilizers, water or aggregate applications as necessary.
-	19-06	Apply recycled asphalt (RAP) to surface soils.

BMP 19 Traffic - unpaved routes and parking, construction related traffic on unpaved interior and/or access roads and unpaved employee/worker parking areas.

Trenching with track or wheel mounted excavator, shovel, backhoe or trencher.

BMP 20

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION FROM EACH SECTION.

Presoak soils prior to trenching activities.

20-01

Pre-water surface.

Stabilize surface soils where trenching equipment, support equipment and vehicles will operate.

20-02

Pre-water and maintain surface soils in a stabilized condition.

20-03

Apply and maintain a chemical stabilizer to surface soils.

20-04

Limit mileage and speed.

Stabilize soils after trenching.

20-05

Apply and maintain water on excavated soil.

20-06

Apply and maintain chemical stabilizer on excavated soil.

GENERAL REQUIREMENT: ALL ACTIVITIES MUST MEET OPACITY REQUIREMENTS IN R307-309-5

MAKE AT LEAST ONE SELECTION.

<p>Pre-water and maintain surface soils in a stabilized condition where loaders, support equipment and vehicles will operate.</p>	<p>Apply and maintain a chemical stabilizer on surface soils where loaders, support equipment and vehicles will operate.</p>	<p>Empty loader bucket slowly and keep loader bucket close to the truck to minimize the drop height while dumping.</p>
<p>— 21-01</p>	<p>— 21-02</p>	<p>X̄ 21-03</p>

BMP 21 Truck loading with materials including construction and demolition debris, rock and soil.