# Storm Water Pollution Prevention Plan

**Babilis Subdivision**
**Weber County, UT**

**Nicholas Babilis**
**801-710-7500**

August 19, 2019

# Storm Water Pollution Prevention Plan

# for:

Babilis Subdivision

# Operator(s):

Nicholas Babilis
5877 S 2925 E
Ogden, UT 84403

# SWPPP Contact(s):

Nicholas Babilis
5877 S 2925 E
Ogden, UT 84403
801-710-7500

# SWPPP Preparation Date:

**August 15, 2019**

*Estimated Project Dates:*

**Project Start Date: 08/15/2019**
**Project Completion Date: 08/15/2020**

# Contents

# SECTION 1: CONTACT INFORMATION/ RESPONSIBLE PARTIES

## *1.1 Owner(s) & Contractors*

**Owner(s):**

Nicholas Babilis
5877 S 2925 E
Ogden, Utah 84403
801-710-7500

**Project Manager(s):**

Nicholas Babilis
5877 S 2925 E
Ogden, UT 84403

**Site Supervisor(s):**

Nicholas Babilis
5877 S 2925 E
Ogden, UT 84403
801-710-7500

**SWPPP Contact(s):**

Nicholas Babilis
801-710-7500

**This SWPPP was Prepared by:**

Reeve & Associates
Jaren Meyers
5160 S. 1500 W.
Riverdale, UT 84405
801-621-3100
jmeyers@reeve-assoc.com

**Subcontractor(s):**

**Emergency 24-Hour Contact:**
Nicholas Babilis
801-710-7500

# SECTION 2: SITE EVALUATION, ASSESSMENT, & PLANNING

## 2.1 Project/Site Information

Project/Site Name: Babilis Subdivision
Project Street/Location: Part of the SW quarter of Sec. 24, Twp 5 N, Range 1 W, SL Base
City: State: UT ZIP Code:
County or Similar Subdivision: Weber

Latitude/Longitude (Use **one** of three possible formats, and specify method)
Latitude: Longitude:
41.15343 º N (decimal) -111.90896º W (decimal)

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

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

UPDES project or permit tracking number*:_____

**(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

Describe the general scope of the work for the project, major phases of construction, etc:

Construction of a 1 lot subdivision

What is the function of the construction activity?

☒ Residential ☐ Commercial ☐ Industrial ☐ Road Construction ☐ Linear Utility

☐ Other (please specify):

Estimated Project Start Date: August 15, 2019

Estimated Project Completion Date: August 15, 2020

## 2.3 Construction Site Estimates

The following are estimates of the construction site.

| | |
|---|---|
| Total project area: | 1.21 acres |
| Construction site area to be disturbed: | 1.21 acres |
| Percentage impervious area before construction: | 2% |
| Runoff coefficient before construction: | 0.20 |
| Percentage impervious area after construction: | 24% |
| Runoff coefficient after construction | 0.25 |

## 2.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type(s):

Soil types consist mainly of sandy loam.

Slopes (describe current slopes and note any changes due to grading or fill activities):

The slope of the site is from E to W. The slopes vary from 2% to 25% in grade

Drainage Patterns (describe current drainage patterns and note any changes dues to grading or fill activities):

The draining pattern is for the site to slope from E to W. The drainage patterns will remain the same except to divert the stormwater around the new home.

Vegetation:

Dry weeds and grass

Other:

### 2.5 Emergency Related Projects

Emergency-Related Project? ☐ Yes ☐ No

Response to a public emergency (see CGP Part 1.2.1); natural disaster, extreme flooding conditions, etc.
PROVIDE INFORMATION SUTSTANTIATING ITS OCCURRENCE
INSERT DESCRITPION OF CONSTRUCTION THAT WAS NECESSARY TO REESTABLISH EFFECTED PUBLIC SERVICES

### 2.6 Phase/Sequence of Construction Activity

Phase I

- Duration of phase August 2019-August 2020

### 2.7 Site Features and Sensitive Areas to be Protected

### 2.8 Maps

The location map is filed in Appendix A

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

# SECTION 3: WATER QUALITY

### 3.1 UIC Class 5 Injection Wells

- ☐ French Drain
- ☐ Commercially Manufactured pre-cast or pre-built subsurface infiltration system
- ☐ Drywell(s), seepage pit(s), improved sinkhole(s)

Description of your Class V Injection Well:
INSTERT DESCRIPTION AND/OR INCLUDE SPECIFICATIONS IN APPENDIX G

DWQ contact information:

Name:

Date:

Additional information:

Local Requirements:

## 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)

| Name(s) of the first surface water that receives storm water directly from your site and/or from the MS4. (note: multiple rows provided where your site has more than one point of discharge that flows to different surface waters) |
|---|
| **1. Weber River** |
| **2.** |
| **3.** |
| **4.** |
| **5.** |

## 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. | ☐ Yes ☒ No | | ☐ Yes ☐ No | |
| 2. | ☐ Yes ☐ No | | ☐ Yes ☐ No | |
| 3. | ☐ Yes ☐ No | | ☐ Yes ☐ No | |

| | | | | |
|---|---|---|---|---|
| 4. | ☐ Yes ☐ No | | ☐ Yes ☐ No | |
| 5. | ☐ Yes ☐ No | | ☐ Yes ☐ No | |
| 6. | ☐ Yes ☐ No | | ☐ Yes ☐ 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.** | ☐ Yes ☐ No | ☐ Category 1 ☐ Category 2 |
| **2.** | ☐ Yes ☐ No | ☐ Category 1 ☐ Category 2 |
| **3.** | ☐ Yes ☐ No | ☐ Category 1 ☐ Category 2 |
| **4.** | ☐ Yes ☐ No | ☐ Category 1 ☐ Category 2 |
| **5.** | ☐ Yes ☐ No | ☐ Category 1 ☐ Category 2 |
| **6.** | ☐ Yes ☐ No | ☐ Category 1 ☐ Category 2 |

## 3.6 Dewatering Practices

| 3.6: (Place name of BMP here – reference to detailed instructions, Appendix M – construction dewatering, intercepted groundwater, spring water, etc.) | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

| 3.6: (Place name of BMP here – reference to detailed instructions, Appendix M) | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## 3.7 Control Storm Water Flowing onto and through the Project

| 3.7: Silt Fence | |
|---|---|
| ***BMP Description***: Around the perimeter of the project area to prevent any sediment from run off from entering/exiting the project. | |
| ***Installation Schedule***: | Beginning of construction |
| ***Maintenance and Inspection***: | Inspect frequently (once a week). Remove sediment when it reaches one-third the height of the fence. Repair when damaged. Repair if not properly anchored. |
| ***Responsible Staff***: | Hired Contractor |

## *3.8 Protect Storm Drain Inlets*

| 3.8: Wattle | |
|---|---|
| ***BMP Description: Sediment barrier erected around storm drain inlet*** | |
| ***Installation Schedule:*** | Beginning of Construction |
| ***Maintenance and Inspection:*** | Inspect frequently (once a week). Remove sediment when it reaches half way up. Repair when damaged. |
| ***Responsible Staff:*** | Hired Contractor |

| 3.8: Excavated | |
|---|---|
| ***BMP Description: An area excavated around a storm drain inlet to impound water below the inlet.*** | |
| ***Installation Schedule:*** | Beginning of construction |
| ***Maintenance and Inspection:*** | Inspect following a storm event and at a minimum of once monthly. Remove accumulated sediment when it reaches on half of the excavated sump below the grate. Repair side slopes as required. |
| ***Responsible Staff:*** | Hired contractor |

# 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) |
|---|---|---|
| Vehicles/Machinery | Gas/Oils/Collant | Onsite |
| Interior/exterior paint | Paint | Onsite |
| Construction Materials | Glues/Foreign Materials | Onsite |
| Sediment | Sediment | Onsite |
| Sanitary Toilet | Waste | Onsite |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

## 4.2 Non-Storm Water Discharges

List allowable non-storm water discharges and the measures used to eliminate or reduce them and to prevent them from becoming contaminated:

| Authorized Non-Storm Water Discharges | Comments |
|---|---|
| Dust Control | Use appropriate amount of water to eliminate flow |
| | |
| | |
| | |
| | |

### *4.3 Natural Buffers or Equivalent Sediment Controls*

**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*

See Appendix B –Site Plan

### *5.2 Establish Perimeter Controls and Sediment Barriers*

| 5.2: Silt Fence | |
|---|---|
| ***BMP Description: Will be placed around the perimeter of the project area to prevent any sediment from run off from entering the project. See SWPPP for details*** | |
| ***Installation Schedule:*** | Beginning of construction |
| ***Maintenance and Inspection:*** | Inspect frequently (once a week). Remove sediment when it reaches one-third the height of the fence. Repair when damaged. Repair if not properly anchored. |
| ***Responsible Staff:*** | Hired Contractor |

| 5.2: (Place name of BMP here – reference to detailed instruction, Appendix M) | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

### *5.3 Retain Sediment On-Site*

| 5.3: Silt Fence | |
|---|---|
| ***BMP Description: Will be placed around the perimeter of the project are to prevent any sediment from run off from entering the project.*** | |
| ***Installation Schedule:*** | Beginning of Construction |
| ***Maintenance and Inspection:*** | Inspect frequently (once a week). Remove sediment when it reaches one-third the height of the fence. Repair when damaged. Repair if not properly anchored. |
| ***Responsible Staff:*** | Hired Contractor |

| 5.3: (Place name of BMP here – reference to detailed instruction, Appendix M) | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *5.4 Establish Stabilized Construction Exits*

| 5.4: Construction Entrance | |
|---|---|
| ***BMP Description: Entrance with 8" clean gravel*** | |
| ***Installation Schedule:*** | Beginning of Construction |
| ***Maintenance and Inspection:*** | Replenish or replace aggregate if clogged with sediment. Sweep street regularly |
| ***Responsible Staff:*** | Hired Contractor |

| 5.4: (Place name of BMP here – reference to detailed instructions, Appendix M -- Street clean up method) | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *5.5 Protect Slopes*

| 5.5: Silt Fence | |
|---|---|
| ***BMP Description: Will be placed around the perimeter of the project area to prevent any sediment from run off from entering the project.*** | |
| ***Installation Schedule:*** | Beginning of construction |
| ***Maintenance and Inspection:*** | Inspect frequently (once a week) Remove sediment when it reaches one-third the height of the fence. Repair when damaged. Repair if not properly anchored. |
| ***Responsible Staff:*** | Hired Contractor |

| 5.5: (Place name of BMP here – reference to detailed instructions, Appendix M) | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *5.6 Stockpiled Soil or Other Erodible Material*

| 5.6: Not Permitted onsite | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *5.7 Minimize Dust*

| 5.7: Ground Moisture | |
|---|---|
| ***BMP Description: Keep the ground moisture at the desirable level to prevent dust as well as to prevent flows*** | |
| ***Installation Schedule:*** | During Construction |
| ***Maintenance and Inspection:*** | To be implemented as needed once site grading has begun and during windy conditions while site grading is occurring. |
| ***Responsible Staff:*** | Hired Contractor |

## 5.8 Topsoil

| | |
|---|---|
| 5.8: N/A | |
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## 5.9 Soil Compaction

| | |
|---|---|
| 5.9: N/A | |
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

| | |
|---|---|
| 5.9: (Place name of BMP here – reference to detailed instructions, Appendix M) | |
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## 5.10 High Altitude/Heavy Snows

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

| 5.10: N/A | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

| 5.10: (Place name of BMP here – reference to detailed instructions, Appendix M) | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *5.11 Chemical Treatment*

### *Soil Types*

List all the soil types (including soil types expected to be found in fill material) that are expected to be exposed during construction and that will be discharged to locations where chemicals will be applied: Sandy Loam

### *Treatment Chemicals*

List all treatment chemicals that will be used at the site and explain why these chemicals are suited to the soil characteristics: N/A

Describe the dosage of all treatment chemicals you will use at the site or the methodology you will use to determine dosage: N/A

Provide information from any applicable Material Safety Data Sheets (MSDS): N/A

Describe how each of the chemicals will stored: N/A

Include references to applicable state or local requirements affecting the use of treatment chemicals, and copies of applicable manufacturer's specifications regarding the use of your specific treatment chemicals and/or chemical treatment systems: N/A

### *Special Controls for Cationic Treatment Chemicals (if applicable)*

If you have been authorized by your applicable Regional Office to use cationic treatment chemicals, include the official EPA authorization letter or other communication, and identify the specific controls and implementation procedures you are required to implement to ensure that

your use of cationic treatment chemicals will not lead to a violation of water quality standards: N/A

### *Schematic Drawings of Storm Water Controls/Chemical Treatment Systems*

Provide schematic drawings of any chemically-enhanced storm water controls or chemical treatment systems to be used for application of treatment chemicals: N/A

### *Training*

Describe the training that personnel who handle and apply chemicals have received prior to permit coverage, or will receive prior to the use of treatment chemicals: N/A

## *5.12 Stabilize Soils*

| | |
|---|---|
| 5.12: N/A | |
| ***BMP Description:*** | |
| ☐ ***Permanent*** | ☐ ***Temporary*** |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

| | |
|---|---|
| 5.12: (Place name of BMP here – reference to detailed instructions, Appendix M) | |
| ***BMP Description:*** | |
| ☐ ***Permanent*** | ☐ ***Temporary*** |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *5.13 Final Stabilization*

| | |
|---|---|
| 5.13: Landscaping | |
| ***BMP Description: Landscaping includes sod and other landscaping areas*** | |
| ***Installation Schedule:*** | Upon completion of the site |
| ***Maintenance and Inspection:*** | |

| ***Responsible Staff:*** | |
|---|---|

# SECTION 6: POLLUTION PREVENTION

## *6.1 Spill Prevention and Response*

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 within14 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)<br>24-Hr Reporting | (801)-231-1769<br>(801) 536-4123 |
| Utah Department of Health<br>Emergency Response | (801) 580-6681 |

| 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 Construction and Domestic Waste*

| 6.2: Onsite Dumpster | |
|---|---|
| ***BMP Description: For construction refuse*** | |
| ***Installation Schedule:*** | ***Beginning of construction*** |
| ***Maintenance and Inspection:*** | ***The dumpster will be of sufficient size and number to contain the construction refuse generated by the project. The dumpster will be inspected, maintained and emptied as needed.*** |
| ***Responsible Staff:*** | ***Hired Contractor*** |

| 6.2: Portable Toilet | |
|---|---|
| ***BMP Description: For working waste*** | |
| ***Installation Schedule:*** | ***Beginning of construction*** |
| ***Maintenance and Inspection:*** | ***Maintain cleanliness and assure products are stocked. Emptied per manufactures recommendation*** |
| ***Responsible Staff:*** | ***Hired Contractor*** |

| 6.2: Concrete Washout | |
|---|---|
| ***BMP Description: Prevent discharge pf pollutants to storm water from concrete waste*** | |
| ***Installation Schedule:*** | ***During concrete pouring work*** |
| ***Maintenance and Inspection:*** | ***Washout will be sufficient size. The washout will be inspected, maintained, and emptied as needed.*** |
| ***Responsible Staff:*** | ***Hired Contractor*** |

| 6.3 Washing of Applicators and Containers used for Concrete, Paint or Other Materials Washout | |
|---|---|
| ***BMP Description: Prevent discharge of pollutants to storm water from concrete waste*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *6.4 Establish Proper Building Material Staging Areas*

| 6.4: Earth Berm Barrier | |
|---|---|
| ***BMP Description: Temporary Containment control constructed of compacted soil*** | |
| ***Installation Schedule:*** | Construct around staging areas |
| ***Maintenance and Inspection:*** | Observe daily for any non-stormwater discharge. Look for runoff bypassing ends of berms or undercutting berms. Repair or replace damaged areas of the berm and remove accumulate sediment. Recompact soil around berm as necessary to prevent piping. |
| ***Responsible Staff:*** | Hired Contractor |

## *6.5 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices*

| 6.5: Not allowed onsite | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *6.6 Control Equipment/Vehicle Washing*

| 6.6: Not allowed onsite | |
|---|---|
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |

| | |
|---|---|
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

### *6.7 Pesticides, Herbicides, Insecticides, Fertilizers, and Landscape Materials*

| | |
|---|---|
| 6.7: N/A | |
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

### *6.8 Other Pollution Prevention Practices*

| | |
|---|---|
| 6.8: N/A | |
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

# 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:
   File inspection certifications in Appendix J

2. ***Inspection Schedule: To Be Determined by hired inspector***

   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 is filed in Appendix F

### *7.3 Delegation of Authority*

See the signed delegation of authority forms in Appendix K.

# SECTION 8: TRAINING AND RECORDKEEPING

### *8.1 Training*

Training documentation and log are filed in Appendix J.

### *8.2 Recordkeeping*

Maintain all records in Appendices A-M

### *8.3 Log of Changes to the SWPPP*

Amendments to the SWPPP are filed in Appendix G

# SECTION 9: CERTIFICATION

Owner

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: | Title: |
|---|---|
| Signature: | Date: |

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: | Title: |
|---|---|
| Signature: | Date: |

## SWPPP APPENDICES

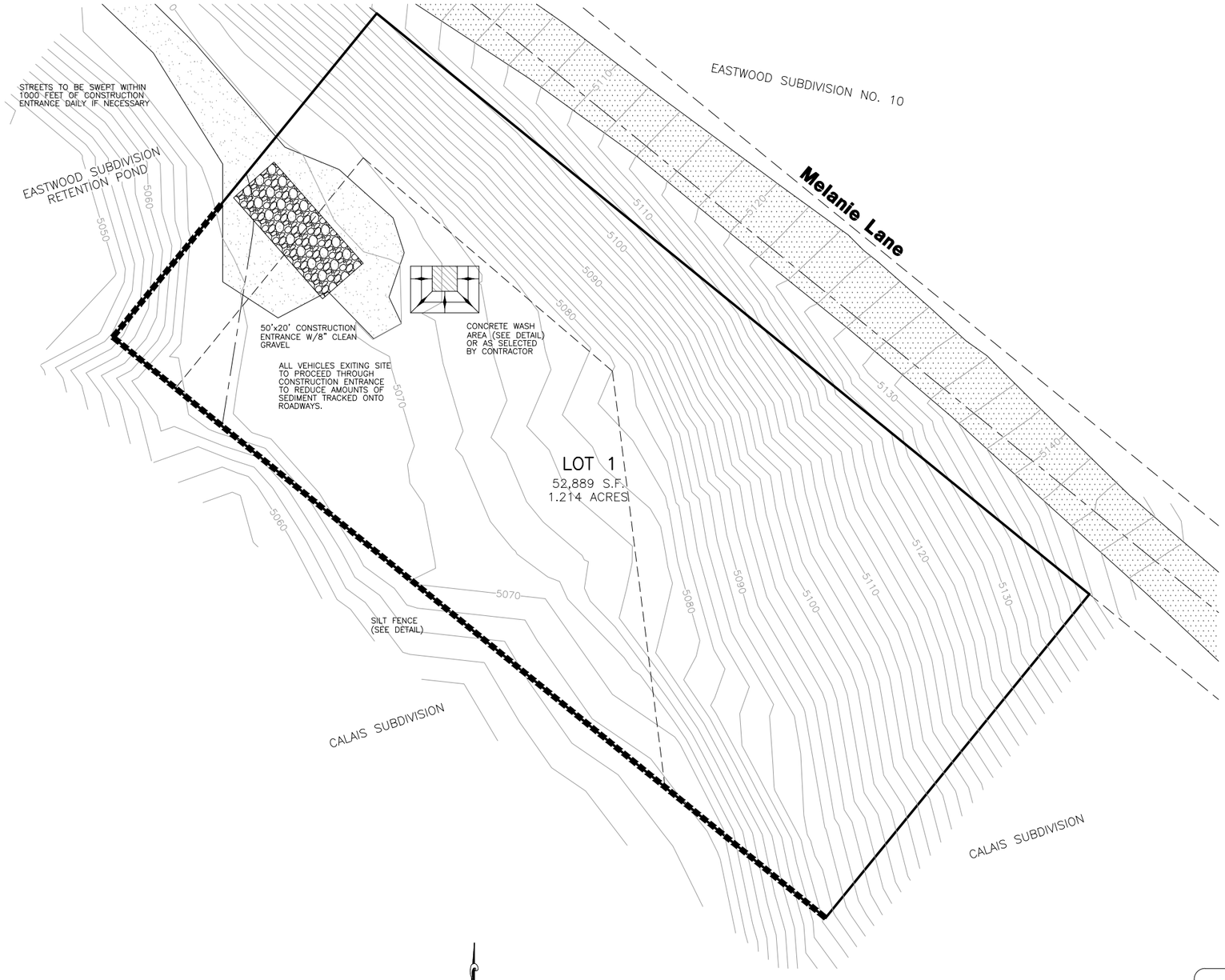
Attach the following documentation to the SWPPP:

## *Appendix A – General Location Map*

## *Appendix B – Site Maps*

# BABILIS
## Storm Water Pollution Prevention Plan Exhibit

WEBER COUNTY, UTAH
AUGUST 2019





**Vicinity Map**
NOT TO SCALE

## Construction Activity Schedule

- PROJECT LOCATION.....WEBER COUNTY, UTAH
- PROJECT BEGINNING DATE.....AUGUST 2019
- BMP'S DEPLOYMENT DATE.....AUGUST 2019
- STORM WATER MANAGEMENT CONTACT / INSPECTOR.....TBD
- SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER



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TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS
DATE | DESCRIPTION

**Babilis**
**Parcel# 07-099-0011**
WEBER COUNTY, UTAH

**Storm Water Pollution Prevention Plan Exhibit**

PROFESSIONAL ENGINEER
10054068
THOMAS J. HUNT
STATE OF UTAH

**Project Info.**
Engineer: T. HUNT
Drafter: J. MEYERS
Begin Date: AUGUST 2019
Name: BABILIS PARCEL# 07-099-0011
Number: 5488-02

Sheet 1 of 2 Sheets

# Notes:

1. Describe all BMP's to protect storm water inlets:
   All storm water inlets to be protected by straw wattle barriers, or gravel bags (see detail).

2. Describe BMP's to eliminate/reduce contamination of storm water from:
   a. Equipment / building / concrete wash areas:
      To be performed in designated areas only and surrounded with silt fence barriers.
   b. Soil contaminated by soil amendments:
      If any contaminates are found or generated, contact environmental engineer and contacts listed.
   c. Areas of contaminated soil:
      If any contaminates are found or generated, contact environmental engineer and contacts listed.
   d. Fueling area:
      To be performed in designated areas only and surrounded with silt fence.
   e. Vehicle maintenance areas:
      To be performed in designated areas only and surrounded with silt fence.
   f. Vehicle parking areas:
      To be performed in designated areas only and surrounded with silt fence.
   g. Equipment storage areas:
      To be performed in designated areas only and surrounded with silt fence.
   h. Materials storage areas:
      To be performed in designated areas only and surrounded with silt fence.
   i. Waste containment areas:
      To be performed in designated areas only and surrounded with silt fence.
   j. Service areas:
      To be performed in designated areas only and surrounded with silt fence.

3. BMP's for wind erosion:
   Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion

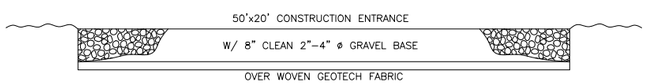
4. Construction Vehicles and Equipment:
   a. Maintenance
      – Maintain all construction equipment to prevent oil or other fluid leaks.
      – Keep vehicles and equipment clean, prevent excessive build–up of oil and grease.
      – Regularly inspect on–site vehicles and equipment for leaks, and repair immediately.
      – Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on–site.
      – Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic, and transmission fluids.
   b. Fueling
      – If fueling must occur on–site, use designated areas away from drainage.
      – Locate on–site fuel storage tanks within a bermed area designed to hold the tank volume.
      – Cover retention area with an impervious material and install in in a manner to ensure that any spills will be contained in the retention area. To catch spills or leaks when removing or changing fluids.
      – Use drip pans for any oil or fluid changes.
   c. Washing
      – Use as little water as possible to avoid installing erosion and sediment controls for the wash area.
      – If washing must occur on–site, use designated, bermed wash areas to prevent waste water discharge into storm water, creeks, rivers, and other water bodies.
      – Use phosphate–free, biodegradable soaps.
      – Do not permit steam cleaning on–site.

5. Spill Prevention and Control
   a. Minor Spills:
      Minor spills are those which are likely to be controlled by on–site personnel. After contacting local emergency response agencies, the following actions should occur upon discovery of a minor spill:
      – Contain the spread of the spill.
      – If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (i.e. absorbent materials, cat litter, and / or rags).
      – If the spill occurs in dirt areas, immediately contain the spill by constructing an earth dike. Dig up and properly dispose of contaminated soil.
      – If the spill occurs during rain, cover the impacted area to avoid runoff.
      – Record all steps taken to report and contain spill.
   b. Major Spills:
      On–site personnel should not attempt to control major spills until the appropriate and qualified emergency response staff have arrived at the site. For spills of federal reportable quantities, also notify the National Response Center at (800) 424–8802. A written report should be sent to all notified authorities. Failure to report major spills can result in significant fines and penalties.

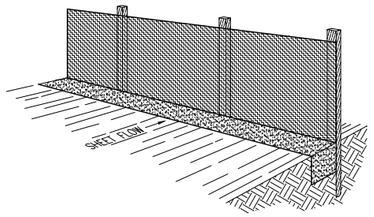
6. Post Roadway / Utility Construction
   a. Maintain good housekeeping practices.
   b. Enclose or cover building material storage areas.
   c. Properly store materials such as paints and solvents.
   d. Store dry and wet materials under cover, away from drainage areas.
   e. Avoid mixing excess amounts of fresh concrete or cement on–site.
   f. Perform washout of concrete trucks offsite or in designated areas only.
   g. Do not wash out concrete trucks into storm drains, open ditches, streets or streams.
   h. Do not place material or debris into streams, gutters or catch basins that stop or reduce the flow of runoff water.
   i. All public streets and storm drain facilities shall be maintained free of building materials, mud and debris caused by grading or construction operations. Roads will be swept within 1000' of construction entrance daily, if necessary.
   j. Install straw wattle around all inlets contained within the development and all others that receive runoff from the development.

7. Erosion Control Plan Notes
   a. The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week.
   b. A stand–by crew for emergency work shall be available at all times during potential rain or snow runoff events. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain or runoff is eminent.
   c. Erosion control devices shown on the plans and approved for the project may not be removed without approval of the engineer of record. If devices are removed, no work may continue that have the potential of erosion without consulting the engineer of record. If deemed necessary erosion control should be reestablished before this work begins.
   d. Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of the slope at the conclusion of each working day. this should be confirmed by survey or other means acceptable to the engineer of record.
   e. All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.
   f. Except as otherwise approved by the inspector, all removable protective devices shown shall be in place at the end of each working day and through weekends until removal of the system is approved.
   g. All loose soil and debris, which may create a potential hazard to offsite property, shall be removed from the site as directed by the engineer of record of the governing agency.
   h. The placement of additional devices to reduce erosion damage within the site is left to the discretion of the engineer of record.
   i. Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the governing agency.
   j. Erosion control devices will be modified as need as the project progresses and plans of these changes submitted for approval by the engineer of record and the governing agency.

8. Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site.
   a. Part III.D.4 of general permit UTR300000 identifies the minimum inspection requirements.
   b. Part II.D.4.C identifies the minimum inspection report requirements.
   c. Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah General Permit UTR 300000.

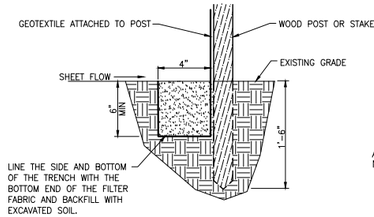



## Cross Section 50' x 20' Construction Entrance




## Perspective View

Figure 2




## Section

INSTALLATION
The silt fence should be installed prior to major soil disturbances in the drainage area. The fence should be placed across the slope along a line of uniform elevation wherever flow of sediment is anticipated. Table 1 shows generally–recommended maximum slope lengths (slope spacing between fences) at various site grades for most silt fence applications.

TABLE 1:
Recommended Maximum Slope Lengths for Silt Fence
(Richardson & Middlebrooks, 1991)

| Slope Steepness (%) | Max. Slope Length m (ft) |
|---|---|
| <2% | 30.5m (100ft) |
| 2–5% | 22.9m (75ft) |
| 5–10% | 15.2m (50ft) |
| 10–20% | 7.6m (25ft) |
| >20% | 4.5m (15ft) |

PREFABRICATED SILT FENCE ROLLS
*Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.
*Unroll the silt fence, positioning the post against the downstream wall of the trench.
*Adjacent rolls of silt fence should be joined be nesting the end post of one fence into the other. Before nesting the end posts, rotate each post until the geotextile is wrapped completely around the post, then abut the end posts to create a tight seal as shown in Figure 1.
*Drive posts into the ground until the required fence height and/or anchorage depth is obtained.
*Bury the loose geotextile at the bottom of the fence in the upstream trench and backfill with natural soil, tamping the backfill to provide good compaction and anchorage. Figure 2 illustrates a typical silt fence installation and anchor trench placement.

FIELD ASSEMBLY:
*Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.
*Drive wooden posts, or steel posts with fastening projections, against the downstream wall of the trench. Maximum post spacing should be 2.4–3.0m (8–10ft). Post spacing should generally be less than three (3) times the height of the fence.
*If a steel or plastic mesh is required to reinforce the geotextile, it shall have a minimum mesh opening of 15.2cm (6").
*Fasten the mesh to the upslope side of the posts using heavy duty wire staples, tie wires or hog strings. Extend the mesh into the bottom of the trench.
*The geotextile shall then be stapled or wired to the posts. An extra 20–50cm (8–20") of geotextile shall extend into the trench.

INSPECTION
*Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall event and weekly during periods of no rainfall. Make any repairs immediately.
*When sediment deposits behind the silt fence are one–third of the fence height, remove and properly dispose of the silt accumulations. Avoid damage to the fabric during cleanout.

REMOVAL
*Silt fence should not be removed until construction ceases and the upslope area has been properly stablized and/or revegetated.

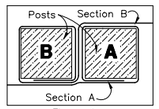
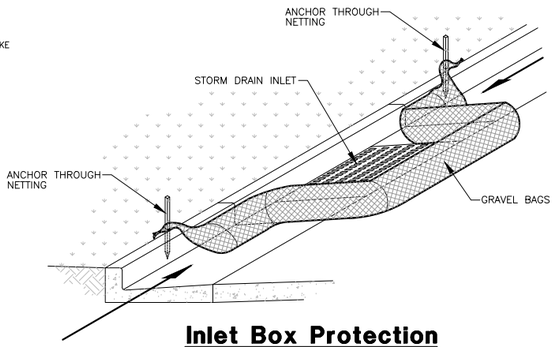


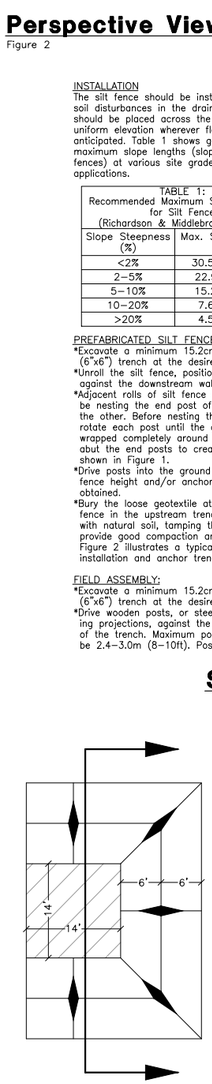

Figure 1:
Top View of
Roll–to–Roll Connection

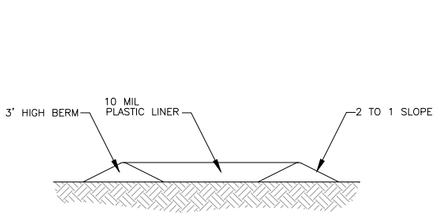
## Silt Fence Detail

SCALE: NONE



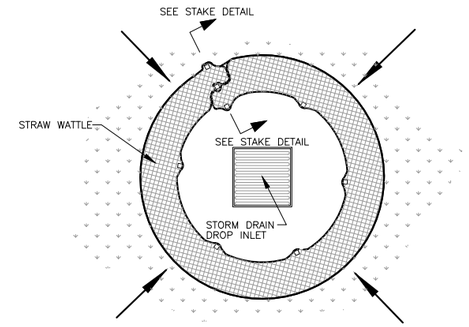

## Inlet Box Protection



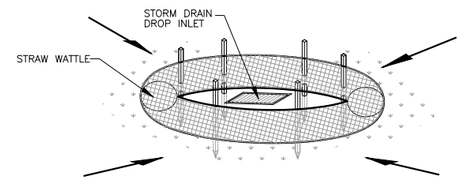




## Concrete Washout Area w/ 10 mil Plastic Liner

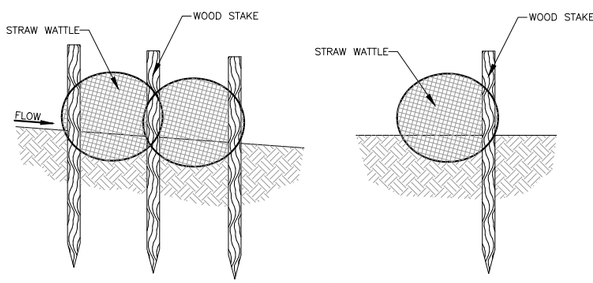
SCALE: NONE




## Plan View




## Drop Inlet Protection




## Stake Detail

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 http://www.reeve-assoc.com
LAND PLANNERS * CIVIL ENGINEERS * LAND SURVEYORS
TRAFFIC ENGINEERS * STRUCTURAL ENGINEERS * LANDSCAPE ARCHITECTS

REVISIONS
DESCRIPTION | DATE

**Babilis**
**Parcel# 07-099-0011**
WEBER COUNTY, UTAH

**Storm Water Pollution Prevention Plan Details**

PROFESSIONAL ENGINEER
10056988
THOMAS J. HUNT
STATE OF UTAH

**Project Info.**
Engineer: T. HUNT
Drafter: J. MEYERS
Begin Date: AUGUST 2019
Name: BABILIS
PARCEL# 07-099-0011
Number: 5488-02

Sheet 2 of 2 Sheets



Reeve & Associates, Inc. - Solutions You Can Build On

## *Appendix C – Construction General Permit*

STATE OF UTAH

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF WATER QUALITY

Utah Pollutant Discharge Elimination System (UPDES)

General Permit for Storm Water Discharges from Construction Activities

UPDES Permit No. UTRC00000

This Permit is issued in compliance with the provisions of the Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated 2004, as amended (the "Act") and the federal Water Pollution Control Act (33 U.S.c. §§ 1251 et. seq., as amended by the Water Quality Act of 1987, P.L. 100-4), and the rules and Regulations made pursuant to those statutes. This permit authorizes "owners/operators" of construction activities (defined in Part 1.1.1 and Part 10) that meet the requirements of Part 1. of this Utah Pollutant Discharge Elimination System (UPDES) general permit, to discharge pollutants in accordance with the effluent limitations and conditions set forth herein. Permit coverage is required from the "commencement of earth-disturbing activities" (see Part 10) until "final stabilization" (see Part 2.2.14).

This permit becomes effective on July 1, 2019.

This permit and the authorization to discharge expire at midnight on June 30, 2024.

Signed this 18th day of June, 2019

Erica Brown Gaddis, PhD
Director

# *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

Project Name:
SWPPP Contact:

| Inspection Date | Inspector Name(s) | Description of BMP Deficiency | Corrective Action Needed (including planned date/responsible person) | Date Action Taken/Responsible person |
|---|---|---|---|---|
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# Appendix G – SWPPP Amendment Log

Project Name:
SWPPP Contact:

| Amendment No. | Description of the Amendment | Date of Amendment | Amendment Prepared by [Name(s) and Title] |
|---|---|---|---|
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# Appendix H – Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION
STORM WATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Storm water 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 storm water 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 I – Grading and Stabilization Activities Log

Project Name:
SWPPP Contact:

| Date Grading Activity Initiated | Description of Grading Activity | Date Grading Activity Ceased (Indicate Temporary or Permanent) | Date When Stabilization Measures are Initiated | Description of Stabilization Measure and Location |
|---|---|---|---|---|
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# Appendix J – SWPPP Training Log

## Storm Water Pollution Prevention Training Log

Project Name:

Project Location:

Instructor's Name(s):

Instructor's Title(s):

Course Location: _____ Date: _____

Course Length (hours): _____

Storm Water Training Topic: *(check as appropriate)*

- ❑ Erosion Control BMPs
- ❑ Sediment Control BMPs
- ❑ Non-Storm Water BMPs
- ❑ Emergency Procedures
- ❑ Good Housekeeping BMPs

Specific Training Objective:_____

_____

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

| No. | Name of Attendee | Company |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
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| 8 | | |
| 9 | | |
| 10 | | |

# Appendix K – Construction plans

The permittee may elect to use this section to place a small copy of construction plans as a reference for the convenience of those using the SWPPP. It is not a permit requirement to place a copy of the construction plans here in the SWPPP.

## *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*


**Reeve & Associates**
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