

Storm Water Pollution Prevention Plan

For

Glacier Creek Road Reconstruction and Realignment Project
Glacier Creek
Haines, Alaska

Operator(s)

Southeast Roadbuilders, Inc.
Roger Schnabel, President
HC60 Box 4800
Haines, Alaska 99827
Phone (907) 766-2833
Fax (907) 766/2832
roger@sroad.com

Droson Company
Tim Droke, Owner
P.O. Box 8711
Ketchikan, Alaska 99901
Phone (907) 821-0367
Fax (907) 220-9321
droson@ak.net

Owner

Constantine Metal Resources Ltd.
Constantine North Inc.
PO Box 315
Haines, Alaska 99827

July 1, 2014

SWPPP Contact(s)

Droson Company
Tim Droke, SWPPP Manager
P.O. Box 8711
Ketchikan, Alaska 99901
Phone (907) 821-0367
Fax (907) 220-9321

droson@ak.net
Southeast Roadbuilders, Inc.
Loren Tonggard, SWPPP Alternate Manager
HC60 Box 4800
Haines, Alaska 99827
Project Phone: (907) 766-2833
Project Cell: (702) 274-3055
Project Fax: (907) 766-2832

SWPPP Preparation Date

7/01/2014

Estimated Project Dates

Start of Construction

July, 2014

Completion of Construction

11/31/2015

July 1, 2014

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- C Project Schedule
- D Supporting Documentation:
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 - Spring / Fall Freeze Probabilities
 - Monthly Climate Summary
 - NOAA Point Precipitation Frequency Estimates
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- E Delegation of Authority, Subcontractor Certifications
- F Permit Conditions:
 - Copy of Signed Notice of Intent
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SECTION 1 - GENERAL INFORMATION

1.0 PERMITTEE (5.3.1)

Identify permittee and any subcontractors.

1.1 Operator(s)/Contractor(s)

Southeast Roadbuilders, Inc.

Roger Schnabel, President

HC60 Box 4800

Haines, Alaska 99827

Phone: (907) 766-2833

Fax: (907) 766-2832

(Southeast Roadbuilders, Inc. has day-to-day operational control over the construction, as directed by Owner)

Mr. Tim Droke

P.O. Box 8711

Ketchikan, Alaska 99901

Phone: (907) 821-0367

Fax: (907) 220-9321

Tim represents the owner, has operational control over construction plans and specifications, including the ability to make modifications with authority to submit Directives to Southeast Roadbuilder's Inc.)

1.2 Subcontractors

None

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2.0 STORM WATER CONTACTS (5.3.2)

Tim Droke: AK-CESCL # CC-14-4116 Expires 3/8/2017
SWPPP Manager & Inspector
Phone: (907) 821-0367
Project Office: (206) 455-8623
drososn@ak.net

Loren Tongsard: AK-CESCL # CEF-12-0175 Expires: 3/14/15
SWPPP Alternate and Inspector
Southeast Roadbuilders, Inc.
Project Office: (907) 766-2833
Project Cell: (907) 314-0107
Lorentongsard@me.com

Emergency 24-Hour Contact and SWPPP Preparer
Southeast Roadbuilders, Inc.
Roger Schnabel
HC60 Box 4800
Haines, Alaska 99827
Phone: (907) 766-2833
Fax: (907) 766-2832

Owner Representative:
Constantine Metal Resources Ltd.
Constantine North Inc.
Mr. Darwin Green, M.Sc., P. Geo
Office: (206) 455-8623
Cell: (604) 789-6043

Alaska Department of Environmental Conservation (ADEC)
Office: (907) 465-5340

Alaska Department of Environmental Conservation
(ADEC – After Hours)
Alaska State Troopers
Office: (907) 755-2918

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Alaska Department of Environmental Conservation
(ADEC – Spill Reporting)
Southeast Area
Office: (907) 465-5340
Fax: (907) 465-2237

Alaska Department of Environmental Conservation
(ADEC – Spill Reporting)
24-hour After Hours
Office: (800) 478-9300

Emergency
Phone: 911

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3.0 PROJECT INFORMATION (5.3.3)

3.1 Project Information

Project/Site Name: Glacier Creek Access Road Reconstruction and Realignment

Project Location: Haines Borough-35 Miles West of Haines
26-Mile Haines Highway
10-Mile Porcupine Road (3-miles beyond the Porcupine Bridge @ 7-mile)

City: Haines State: Alaska Zip Code: 99827

Borough or Subdivision: Haines Borough

Project No.: July 2014

B.O.P.

Latitude:
59° 24' 26" N (degrees, minutes, seconds)

Longitude:
136° 19' 55" W (degrees, minutes, seconds)

E.O.P.

Latitude:
59 ° 14 ' 05 " N (degrees, minutes, seconds)
seconds)

Longitude:
135 ° 26 ' 34 " W (degrees, minutes,

Method for determining latitude/longitude: Google Earth

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3.2 Project Site-Specific Conditions (5.3.3)

Mean annual precipitation based on nearest weather stations (inches): 47.67 inches with an average of 121.7 inches of snowfall.

Soil Type(s) and Slopes: According to the USDA Natural Resources Conservation Service, the uphill soil type consists of Krubate gravelly sandy loam, 5 to 20 percent slopes, stony. There will be minor changes to the existing slopes due to excavation required for roadway parameters, hoping to not exceed 10% favorable gradient.

Landscape Topography: The road will head in a Southwesterly direction, located on northwesterly facing side slopes, roughly parallel to Glacier Creek. Although the slopes project up steeply beyond the roadway this construction is in the in the delta area with lessor sideslope cuts in comparison to the steeper slopes upland from Glacier Creek and proposed road loacation. Average grade of the route is 6.5%. Side slope angles along the route are typically as follows:

- 0.5 mile of 0% to 10%
- 0.9 mile of 10% to 20%
- 0.6 mile of 20% to 30%
- 0.5 mile of 30% to 40%

Drainage patterns: Drainage from the uphill side of the road will be conveyed under the roadway through culverts at numerous locations throughout the project (estimated 23 crossings). There also exists some drainage ditches on the uphill side of the road that will direct runoff to the culvert crossings. New construction will take the same approach, however redirecting water will not be practiced unless practical. Culverts will be placed in existing and established drainages.

Approximate growing season: The approximate growing season for the Coastal Western Hemlock – Sitka Spruce Forests is about April 29th through September 28th as reported in the Regional Supplemental to the Corps of Engineers Wetland Delineation manual Alaska region (Version 2.0) Publication ERDC/EL TR-07-24 derived from Markon (201) (See sources tables in appendix D).

Type of Existing Vegetation: Upland forest with scattered patches of alder and cottonwood. Alder becomes more prevalent the last mile of construction.

Size (in inches) of the 2-year, 24-hour storm: 4 inches, Source NOAA (See rainfall map in appendix D).

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Fall freeze-up and spring thaw dates: The expected fall freeze up date is defined by the ACGP definitions as an 80% probability of a minimum temperature of 32.5 degrees and is expected in mid-October. The spring thaw as defined by the ACGP is 20% probability of temperatures below 32.5 degrees and is expected in early to mid-May. (See probability tables in appendix D).

4.0 NATURE OF CONSTRUCTION ACTIVITY (5.3.4)

4.1 Scope of Work

The Proposed Action would:

- Provide access to an Exploration Project. Development is to make the ongoing project safer and more feasible for further development.
- Re-establish the existing route established by the stakeholder, Merrill Palmer.
- Realign the route where feasible in order to conserve ground disturbance and distance.
- Realign in conjunction with State of Alaska's plan for access to Timber to save road development.
- Install culverts (23 anticipated), and bridges as prescribed by agencies and corresponding permits.

4.2 Project Function (5.3.4.1)

The purpose of the project is to improve the original route developed over 20 year ago by the stakeholder in order to make further exploration safer, more efficient and with less risk.

The project has a further benefit, which is 100% funded by Constantine. The road is within the State of Alaska State Forest Boundary and will access timber for the local wood and timber industry. Road access has hindered the program due to the extensive costs for development.

4.3 Sequence and Timing of Soil-disturbing Activities (5.3.4.2)

Chronological order of Construction activities:

- 1) Timberfalling within the Right-of-Way (non disturbing activity)
- 2) Clearing and Grubbing
- 3) Ditching where applicable
- 4) Excavation/Embankment
- 5) Culvert Installations
- 6) Roadway Surfacing
- 7) Finishing including cut slopes/fill slopes/surface

Major activities consisting of:

- 2.5 miles of construction and reconstruction
 - ~1.7 miles of existing spur road
 - ~0.8 miles of new construction

Drainages placing culverts and or bridges

Establishing reasonable road gradients and sight distances for safe travel

All Activity Sequence:

- Set up Spill Containment and Clean-Up Supplies on site in clearly marked and easily accessible area.
- Construct / Install erosion sediment control measures as per plan prior to work. The extent of the proposed work is defined in the referenced plans, details and specifications. Stabilize disturbed sites as soon as practical as work progresses and at the completion of earthwork activities.

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- Furnish and install temporary erosion control measures as needed and sediment control measures as discussed in Sections 2, Section 3 and Section 4 of this SWPPP. Erosion and sediment control measures will be continually maintained throughout the project. Repairs to BMP'S shall be completed within 48 hours.
- Survey and layout the work
- During earth disturbing activities, run-on water must be diverted into drainage ditches or existing drainages. Prior to crossing the drainages (all creek crossings are without fish):
 - Install culvert per plan, or
 - Place temporary culvert, or
 - Place log culvert or
 - Place clean porous material to minimize sedimentation prior to crossing or
 - Bridge over the drainage, limiting in water work and disturbance to the drainage
- Haul routes will include: Gravel source for surfacing to road subgrade (gravel source yet to be determined)
- Clear grub including stump removal, slash piling
- Excavate roadway to desired grades and alignment.
- Install Permanent Culverts
- Remove any temporary erosion and sediment controls after all disturbed areas are permanently stabilized.

Residential Commercial Industrial Road Construction Linear Utility
 Other (please specify):

Estimated Project Start Date: 07/21/2014

Estimated Project Completion Date: 11/30/2015

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4.4 Size of property and total area expected to be disturbed (5.3.4.3)

The following are estimates of the construction site:

Total project area:	18 acres
Construction-site area to be disturbed:	4.20 acres

4.5 Identification of all potential pollutant sources (5.3.4.5)

Potential sources of sediment to storm water runoff:

The excavations and fill activities will result in exposed soils that could be eroded and contribute sediment to stormwater. Haul routes and access points for material delivery could become sources of sediment from trackout.

Potential pollutants and sources, other than sediment, to storm water runoff:

Trade Name Material	Stormwater Pollutants	Location
Sediment	Soil particles	Entire site.
Hydraulic oil/fluids	Oil	Service truck, equipment
Gasoline	Benzene, ethyl benzene, toluene, xylene, MTBE	Portable jugs, vehicles
Diesel Fuel	Petroleum distillate, oil and grease, naphthalene, xylenes	Service truck, equipment, portable jugs, vehicles
Antifreeze / Coolant	Ethylene glycol, propylene glycol, heavy metals	Service truck, equipment, vehicles
Lubricants/Grease	Paraffinic/petroleum distillates	Service truck, equipment, vehicles
Engine Oil	Zinc ditiophosphate	Service truck, equipment, vehicles
General construction site debris, litter or trash	Plastic containers, wrappers or packaging	Entire site

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5.0 SITE MAPS (5.3.5)

Included in Appendix A of this SWPPP are the following site maps:

- Vicinity Map (Figure 1)
- Area Map (Figure 2)
- Wetland and Waterbody Mapping (Figure Extents 3, 4, 5, & 6)
- Stream Crossings – Glacier Creek Area Maps

6.0 DISCHARGES

The permittee must select, install, and maintain control measures (e.g., Best Management Practices (“BMPs”), controls, practices, etc.) for each major construction activity identified in the NPDES General Permit project description to meet these effluent limits identified in ACGP Part 4.11. All control measures must be properly selected, installed, and maintained in accordance with any relevant manufacturer specifications and good engineering practices. The permittee must implement the control measures from commencement of construction activity until final stabilization is complete. The term “minimize” as used in Part 3 means reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

For all erosion and sediment control BMPs listed below, conduct inspection at least once every 7 days during construction.

All Temporary erosion control measures will remain in place until the soil site is stabilized, or work resumes at the site. Temporary stabilization measures may include individual or a combination of measures including but not limited to vegetative cover, mulch, stabilizing emulsions, blankets, fiber rolls, mats, soil binders, non-erodible cover, dust palliatives or other approved methods.

6.1 Locations of Other Industrial Storm Water Discharges (5.3.8)

No ground engaging activities have occurred and to locate feasible gravel sources, an on-site investigation with equipment must occur. Once the gravel deposits are determined and approved

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by the State of Alaska, Department of Natural Resources, they will become part of this Permit. It is anticipated the sources will be within the delta of the Existing Glacier Creek Drainage.

6.2 Allowable Non-Storm Water Discharges (1.4.2; 4.2.7; 5.3.9)

Non-stormwater discharges are allowed under the Alaska Construction General Permit (ACGP) but should be eliminated or reduced to the extent feasible. Control measures to be implemented to manage non-stormwater pollution are described in BMP Section. Non-stormwater discharges may include:

BMP	DESCRIPTION AND INSTALLATION SCHEDULE	MAINTENANCE AND INSPECTION
<u>Dewatering Operations</u>	During dewatering, discharge water will be treated but not limited to linear sediment barriers, check dams, and/or water truck.	Inspect and monitor BMPs frequently and repair or replace to ensure the BMPs function as designed. Remove and dispose of properly any accumulated sediments.
<u>Dust Control</u>	Water can be used for dust abatement. Efforts will be made to water at an interval that keeps the road surface damp, but does not generate runoff.	Monitor during dry periods for wind born sediments. Dust Control Measures are not anticipated due to slower speeds and nature of work.
<u>Water for Compaction</u>	Compaction water should not puddle or runoff from site.	Monitor and inspect during compaction operations, especially during dry periods. Water for Compaction is not anticipated due to nature of the work.

<u>Equipment / Vehicle Washing</u>	All vehicles will be washed off-site.	N/A

SECTION 2 - COMPLIANCE WITH STANDARDS, LIMITS, AND OTHER APPLICABLE REQUIREMENTS

7.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO TOTAL MAXIMUM DAILY LOADS (3.2, 5.6)

A search of the 2010 Alaska Integrated Water Quality Report found no listings or impairments for the Glacier Creek and its tributaries.

7.1 Identify Receiving Waters (5.3.3.3)

Description of receiving waters: The entire project will drain into Glacier Creek to Klehini River to Chilkat River to Chilkat Inlet to Lynn Canal to Pacific Ocean

7.2 Identify TMDLs (5.6.1)

Is an EPA-established or approved TMDL published for the receiving water(s) listed in Section 7.1? Yes No

**8.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO
ENDANGERED SPECIES (3.3, 5.7)**

8.1 Information on endangered or threatened species or critical habitat (5.7.1)

Are endangered or threatened species and critical habitats on or near the project area?

Yes No

Describe how this determination was made:

Tetra Tech conducted a desktop analysis and field survey at the request of Constantine to initiate documentation of baseline aquatic conditions for the Palmer Project. Information sources included the Alaska Department of Fish and Game (ADF&G) Anadromous Waters Catalog (AWC) and Alaska Freshwater Fish Inventory Database (AFFI) and department records.

Yes No

There are no listed threatened or endangered species under the endangered Species Act in the project area that are within the jurisdiction of the USFWS.

Include any agency correspondence in the SWPPP (5.7.4).

Provide summary of necessary measures (5.7.5):

9.0 HISTORIC PROPERTIES (5.11.3)

Are there any historic sites on or near the construction site?

Yes No

State of Alaska, Office of History & Archaeology – Letter dated April 22, 2014 – The Alaska Heritage Resource Survey (AHRS) database indicates there are no recorded cultural resources within the proposed access road area.

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10.0 APPLICABLE FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS (4.13)

The project SWPPP shall comply with the following federal, state and local requirements:

1. 2011 Alaska Construction General Permit (CGP)
2. United States Army Corp of Engineers (USACE) Nationwide Permit (NWP) 14.
3. Alaska District Regional Conditions for 2012 Nationwide Permit
4. United States Department of the Interior, BLM Surface Management Notice BMPs

SECTION 3 - CONTROL MEASURES

11.0 CONTROL MEASURES/BEST MANAGEMENT PRACTICES (4.0; 5.3.6)

11.1 Minimize amount of soil exposed during construction activity (4.1.2)

Most work within the project will be contained within the existing established Road Right-of-Way. The biggest threat to siltation involves inclement weather during construction. Cut slopes will be an ongoing phase. As slopes are cut, ditches must be constructed in tandem to control run-off. This activity is soil disturbing. To minimize the impact effort will be made to finish the slopes as soon as practical, (not beyond 14 days) and seed. This process will be on-going. Most of the construction activity will take place in July, August, and September, traditionally the times of least rainfall in the area which will benefit the project both from a construction and act as a protection measure.

11.2 Maintain natural buffer areas (4.1.3)

Are stream crossings or waters of the U.S. located within or immediately adjacent to the property? Yes No

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Existing vegetative buffers will be maintained and utilized as sediment control. The vegetative buffers are naturally occurring. Also, where feasible vegetation removed from the roadway construction can and will be placed strategically to help act as a control.

11.3 Control storm water discharges and flow rates (4.1.4)

The culvert installation will require timing to schedule the work during dry periods. Continuous flows that must be diverted will be completed by the use of temporary diversion ditches to convey flows to the nearest culvert crossing. A diversion plan will be reviewed on-site, by Drosen & SRI as a minimum. A Constantine representative will also be readily available to confirm the best approach. Rock check dams or fiber rolls will be installed in the temporary diversion ditch to filter any sediment prior to conveyance under the roadway. Riprap blankets or clean gravels will be installed at the outlets if necessary to minimize the potential for erosion.

BMP Description: AK-2 Interception / Diversion Ditch

Source: DOT&PF Alaska SWPPP Guide 2-2011

Temporary: Flows will be diverted and bypassed during culvert removal and installation.

Installation Schedule: Prior to excavation within an existing drainage or stormwater conveyance.

Maintenance and Inspection: Regularly during temporary diversions or bypass operations to ensure non erosive flow in addition to once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager

BMP Description: AK-5 Outlet Protection

Source: DOT&PF Alaska SWPPP Guide 2-2011

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Permanent & Temporary: All permanent culvert outlet energy dissipation will be installed if necessary and/or identified on the plans, concurrent with pipe installation. Temporary diversions, bypass flows will require non erosive outlet energy dissipation BMP's to prevent any erosion or scour at discharge points.

Installation Schedule: Concurrent with culvert installation and prior to diversion or bypass.

Maintenance and Inspection: Regularly during temporary diversions or bypass operations to ensure non erosive flow at temporary outlets in addition to once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager

BMP Description: Pump Diversion / Dewatering

Source: Contractor will provide a diversion plan for all bypass operations involving pumps, diversions dams or impoundments. The plan will be approved by the project engineer prior to installation.

Temporary: To be used during culvert installation and conveyance construction to ensure a dry work area.

Maintenance and Inspection: Pumps must be monitored continually during operation. Gravity diversions or bypass BMP's must be inspected and maintained to ensure continuous operation and function outlets in addition to once every 7 days and twice weekly during periods of continuous precipitation or sequential storms..

Responsible Staff: SWPPP Manager

BMP Description: AK-7 Check Dam

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Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to soil disturbance in the contributing drainage area.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

BMP Description: AK-8 Fiber Rolls

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to soil disturbance in the contributing drainage area – As needed.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

11.3.1 Protect steep slopes (4.1.5)

Will steep slopes be present at the site during construction? Yes No

Slopes will be finished with rip rap or top soil and seed will be used to stabilize the slope as construction progresses and within 14 days of finished grading. Existing vegetation buffers will be utilized between the new toe of fill slopes and right-of-way where the buffer is at least 25 feet. If not, fiber rolls will be installed at the toe of fill slopes. Fill will consist of natural on-site excavated material. If excessive fines and a threat of the fill becoming a source of siltation, it will be covered with clean material from the borrow source or gravel, free of organic material

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and other contaminants. For any portion of the site where temporary grading has been established or other earth disturbing activities have temporarily ceased temporary stabilization measures will be used as soon practicable or within fourteen (14) calendar days.

BMP Description: AK-8 Fiber Rolls

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to soil disturbance in the contributing drainage area.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager & Superintendent

BMP Description: AK-1 Preservation of Existing Vegetation

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Inspect to verify buffer is sufficient prior to grading activities.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager & Superintendent

11.4 Storm drain inlet protection measures (4.2.1)

Culverts and roadside ditches will be protected by the use of fiber rolls that will extend across the ditch drainage paths and above the culvert inlets. The majority of the culverts that convey

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Waters of the U.S. intercept the waters directly at the point of intersection with the roadway without any roadside ditch conveyance. In locations where Waters of the U.S. are conveyed through roadside ditches, the use of rock check dams or wattles will be installed within the ditch at 100' intervals or at other designated locations determined appropriate by the SWPPP Manager. Existing inlets located down gradient of the work will be protected by the use of inlet protection devices.

BMP Description: AK-7 Check Dam

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to soil disturbance in the contributing drainage area.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

BMP Description: AK-8 Fiber Rolls

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to soil disturbance in the contributing drainage area.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

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BMP Description: AK-19 Inlet Protection

Source: DOT&PF Alaska SWPPP Guide 2-2011

Temporary: Drain Inlets that are located down gradient from areas of exposed soils will require inlet protection devices.

Installation Schedule: Prior to exposing soils upgrade in the drains area of drainage.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager

11.5 Water body protection measures (4.2.2)

There are no water bodies immediately adjacent to the project site. All stormwater discharges are conveyed across the roadway through culvert or bridge systems and are conveyed to Glacier Creek through the storm drain system or natural vegetated ditches. Clean gravel type blankets will be installed where the outlets discharge onto newly exposed fill material. Fiber rolls (wattles), if necessary, will be placed above the culverts to filter any sediment that may be generated from the roadway construction. Existing vegetation buffers will be utilized between the new toe of fill slopes and right-of-way where the buffer is at least 25 feet. If not, fiber rolls will be installed at the toe of fill slopes. All sediment controls to be cleaned at 1/3 of storage capacity.

BMP Description: AK-8 Fiber Rolls

Source: DOT&PF Alaska SWPPP Guide 2-2011

Temporary: Perimeter sediment control during soil disturbing activities.

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Installation Schedule: Installed prior to soil disturbance, downgrade of areas to be disturbed for construction.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms. Cleaning of sediment control to occur at 1/2 of storage capacity at a time to minimize disturbance.

Responsible Staff: SWPPP Manager

BMP Description: AK-1 Preservation of Existing Vegetation

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Inspect to verify buffer is sufficient prior to grading activities.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager & Superintendent

11.6 Down-slope sediment controls (4.2.3)

Silt fence is not intended to be used on this project, however fencing materials are readily available in the event of need. Straw wattles will be installed as needed during grading operations where an existing vegetation buffer of not less than 25 feet does not exist between the toe of slope and Right-of-Way.

BMP Description: AK-8 Fiber Rolls

Source: DOT&PF Alaska SWPPP Guide 2-2011

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Temporary: Perimeter sediment control during soil disturbing activities.

Installation Schedule: Installed prior to soil disturbance, downgrade of areas to be disturbed for construction.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager

BMP Description: AK-18 Silt Fence

Source: DOT&PF Alaska SWPPP Guide 2-2011

Temporary: Perimeter sediment control during soil disturbing activities.

Installation Schedule: Considering the terrain, existing vegetative barriers, constructed vegetative barriers, fiber rolls, ditch blocks, clean gravels, logs placed properly to divert and channel water into settling areas, we do not anticipate the need for silt fencing. However if it becomes apparent that these controls will not be effective where silt fencing is necessary, it will be installed.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager

BMP Description: AK-1 Preservation of Existing Vegetation

Source: DOT&PF Alaska SWPPP Guide 2-2011

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Installation Schedule: Inspect to verify buffer is sufficient prior to grading activities.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager & Superintendent

11.7 Stabilized construction vehicle access and exit points (4.2.4)

Vehicle entrance / exit is all on an existing road, one lane with turnouts. Equipment will not be used where it is unnecessary for construction work. Any rubber tire operating on bare soft soils may require a fill to be placed to stabilize and reduce/eliminate tracking. The existing gravel surfaces will be used and stabilized. Road crowning will be monitored to help reduce the movement of equipment through puddles or ponds.

BMP Description: AK-21 Vehicle Tracking Entrance / Exit

Source: DOT&PF Alaska SWPPP Guide 2-2011

Temporary: Points of egress from areas of the project.

Installation Schedule: Install as needed for access and haul routes until the project area is fully stabilized or life of project. Gravel or clean rock may be used as an effective material.

Maintenance and Inspection: To be inspected at each SWPPP inspection and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager

11.8 Dust generation and track-out from vehicles (4.2.5)

Contractor will remove any construction debris including soil and rock from the roadway. Any material tracked will be swept from the roadway.

BMP Description: Dust Control

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Source: No BMP manual or publication was used.

Temporary: Water will be applied to prevent the generation of fugitive dust.

Installation Schedule: During dry conditions prior to traffic that could cause air quality issues.

Maintenance and Inspection: Water must be applied sparingly to minimize the potential for runoff that could transport pollutants. Inspection for conditions that could contribute to the generation of fugitive dust will be on going during the construction process.

Responsible Staff: SWPPP Manager

11.9 Soil stockpiles (4.2.6)

No soil stockpiles are anticipated, unless we encounter a substantial cut in the roadway without a place to embank. If this occurs, the material will be contoured and seeded within 14 days of completion.

BMP Description: AK-8 Fiber Rolls

Source: DOT&PF Alaska SWPPP Guide 2-2011

Temporary: Perimeter sediment control surrounding stockpile locations if necessary.

Installation Schedule: Installed after stockpile is placed.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation or sequential storms.

Responsible Staff: SWPPP Manager

11.10 Sediment basins (4.2.8)

Will a sediment basin be required during construction? Yes No

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11.11 Dewatering (4.3)

Will excavation dewatering be conducted during construction? Yes No

Most all dewatering activities will consist of diversion ditches for culvert installations as well as ditching into existing drainages where roadway cuts take place.

The culvert installation may require dewatering activities to divert flows to adjacent culverts. Dewatering must be directed toward an existing drainage structure and will be conveyed through a rock check dam or fiber roll prior to entering culverts.

BMP Description: AK-7 Check Dam

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to diversion of flows.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

BMP Description: AK-8 Fiber Rolls

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to diversion of flows as necessary.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

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11.12 Soil stabilization (4.4, 5.3.6.3)

Slopes will be covered with clean borrow or top soil and seeded. Topsoil and seed approach will occur during the seeding window of May 15 through September 30th. Stabilization will be installed concurrent with the embankment construction and within 7 days of finish grading. For any portion of the site where temporary grading has been established or there earth disturbing activities have temporarily ceased temporary stabilization measures will be used as soon as practicable or within seven (7) calendar days. All disturbed land within the project limits will be temporarily or permanently stabilized before seasonal freeze and/or annual thaw occurs (unless the unstabilized area is being actively worked). Stabilization will involve, riprap, structural borrow material or temporary flattening of slopes.

BMP Description: Bank Stabilization – Borrow

Permanent Temporary

Source: No BMP Manual was used. Embankment stabilization will occur as detailed or directed by the owner, or as the Best Management Practices dictate.

Installation Schedule: To establish a permanent embankment stabilization as soon as practicable or within seven (14) days after ground disturbing activities ceases or before seasonal thaw. Borrow material specified and provided will be structural fill capable of maintaining stabilization.

Maintenance and Inspection: Once every 7 days to check for areas where protective and twice weekly during periods of continuous precipitation. Until deemed established by the project engineer.

Responsible Staff: SWPPP Manager & Superintendent

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BMP Description: Temporary Seeding AK-10

Permanent Temporary

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: To establish a temporary vegetative cover on disturbed areas by seeding with appropriate and rapid growing annual grasses. Seeding activity will extend to September 30th.

Maintenance and Inspection: Once every 7 days and after storm event to check for areas where protective twice weekly during periods of continuous precipitation. Until deemed established by the project engineer.

Responsible Staff: SWPPP Manager & Superintendent

BMP Description: Mulching AK-9

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Not anticipated. Soils capable of germinating seed naturally appears to be available. Hydro mulching can be installed if necessary. Materials and equipment are available in Haines. Wood Fiber will be used in all hydro seeding operations. Product must be allowed to “cure” or dry to prevent mulch from washing away.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation. Until deemed established by the project engineer.

Responsible Staff: SWPPP Manager & Superintendent

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11.13 Treatment chemicals (4.5; 5.3.6.4)

Will treatment chemicals be used to control erosion and/or sediment during construction?

Yes No

This project does not anticipate the use of treatment chemicals to be used to control turbidity during construction.

11.14 Active Treatment System information (4.5.4.3)

Will an ATS be used as a control measure at the site? Yes No

11.15 Good housekeeping measures (4.7)

BMP Description: Waste Disposal

Source: No BMP manual or publication was used for this BMP.

Installation Schedule: No trash will be stored on site.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

BMP Description: Hazardous Waste

Source: No BMP manual or publication was used for this BMP.

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Installation Schedule: All hazardous waste will be disposed of in accordance with federal, state and municipal regulations. See Hazardous Material Control Plan in Appendix M.

Maintenance and Inspection: Disposal containers will be labeled and properly stored. There will be no on-site storage of hazardous Waste.

Responsible Staff: SWPPP Manager

11.15.1 Washing of equipment and vehicles (4.7.1)

Will equipment and vehicle washing and/or wheel wash-down be conducted at the site?

Yes No

11.15.2 Fueling and maintenance areas (4.7.2)

Will equipment and vehicle fueling or maintenance be conducted at the site?

Yes No

The staging area will be located uplands in an area where controls can be implemented in the case of an emergency. Equipment for containment will be readily available, on-site and standing by. Fuel storage will be in good condition capable and manufactured for such purposes. All storage will be portable. Maintenance and fueling areas will be monitored and established strategically to provide the opportunity for containment in the event of a spill. Spill kits appropriate to respond to the hazards on site will be made available. Inspections will include staging areas and fueling & maintenance areas. Equipment will be maintained to prevent oils and grease from discharging with stormwater. Prior to use each day equipment operators are required to perform a visual inspection for leaks, drips and excess grease. If leaks cannot be repaired and stopped the equipment will be placed out of service over drip pans and/or pads to collect any fluids or

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grease and prevent pollution discharge. Equipment operators will look for excess grease accumulation and remove and properly dispose of excess grease to prevent discharge.

BMP Description: AK-23 Vehicle and Equipment Maintenance

Source: DOT&PF Alaska SWPPP Guide 2-2011

Installation Schedule: Installed prior to staging of construction vehicles.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

11.15.3 Washout of applicators/containers used for paint, concrete, and other materials (4.7.4) – Not Applicable.

11.15.4 Fertilizer or pesticide use (4.7.5)

Fertilizers or pesticides will not be used on the site.

No fertilizers will be stored or used on site.

11.16 Spill notification (4.8)

Where a leak, spill or release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302 occurs during a 24-hour period, notice will be made to the National Response Center (NRC) at telephone number (800) 424-8802 during normal business hour. The DEC Area Response Team Office-Southeast (Juneau) will also be informed at telephone number (907) 465-5340. Outside of normal business hours, the incident will be called at telephone number (800) 478-9300 as soon as knowledge of the discharge has occurred.

See Spill Reporting Notices in Appendix M and R.

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11.17 Construction and Waste Materials (5.3.7)

Proper material storage will be established to avoid pollutants coming in contact with rainfall or flowing stormwater. Any materials that have the potential to pollute stormwater will be covered to prevent rainfall from coming into contact with them. No trash will be stored on site. Staging area will be included in inspection and the SWPPP. No materials will be staged or stored, even temporarily in flowing water.

Hazardous Waste Control Plan is Appendix M.

BMP Description: Waste Disposal

Installation Schedule: No trash will be stored on site.

Maintenance and Inspection: Once every 7 days and twice weekly during periods of continuous precipitation.

Responsible Staff: SWPPP Manager & Superintendent

BMP Description: Hazardous Waste

Installation Schedule: All hazardous waste will be disposed of in accordance with federal, state and municipal regulations.

Maintenance and Inspection: Disposal containers will be labeled and properly stored. There will be no on-site storage of hazardous Waste.

Hazardous Waste Control Plan is Appendix M.

Responsible Staff: SWPPP Manager

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SECTION 4 - INSPECTIONS, MONITORING, AND RECORDKEEPING

12.0 INSPECTIONS (5.4; 6.0)

12.1 Inspection schedules (5.4.1.2; 6.1; 6.2)

Inspection frequency:

Haines area receives approximately 48 inches of annual precipitation. The Glacier Creek area, more inland from Haines, has not been monitored, however typically this area receives less rainfall than Haines in comparison. Compliance with the 2011 CGP inspection frequency will require inspections every 7 days. During periods of relatively continuous precipitation two inspections per week may be required.

Justification for reduction in inspection frequency, if applicable:

If the entire site is temporarily stabilized in accordance with Part 4.4, inspections may be reduced to a frequency of at least once every thirty (30) calendar days and within two business days of the end of a storm event at actively staffed sites.

Estimated date of winter shutdown:

During periods of winter shutdown, inspections may be stopped fourteen (14) calendar days after the anticipated fall freeze-up estimated on October 30 and inspections will resume at least twenty-one (21) calendar days prior to the anticipated spring thaw estimated on April 30. See Appendix C for freeze probability schedules.

The inspections will be conducted jointly with Constantine and Droson or SRI, as directed by the owner. The schedule for site inspections will be established and updated as necessary to meet the requirements of the ACGP.

12.2 Inspection form or checklist (5.4.1.3; 6.7)

DOT Construction Form 25D-100 will be used for the inspection and is attached in Appendix K. Rainfall log is in Appendix L.

12.3 Corrective action procedures (5.4.1.4; 8.0)

Corrective Action Log

Corrective actions will be tracked on the DOT Construction Form 25D-112. Corrective actions must be implemented as soon as practicable and for simple corrections that are easily completed, within 24 hours. All required controls must be completed within 7 days. The corrective action completion date will be noted on the corrective action form. The correction action Form 25D-112 is located in Appendix J.

12.4 Inspection recordkeeping (5.4.2)

Records will be maintained for a minimum period of at least three (3) years after the permit is terminated.

13.0 MONITORING PLAN (IF APPLICABLE) (5.5; 7.0)

13.1 Determination of Need for Monitoring Plan

The contractor will not be required to develop a monitoring plan.

14.0 POST-AUTHORIZATION RECORDS (5.8)

Copy of Permit Requirements (5.8.1)

The SWPPP must contain the following documents:

- copy of 2011 ACGP (5.8.1.1);
- copy or signed and certified NOI form submitted to ADEC (5.8.1.2);
- upon receipt, a copy of letter from ADEC authorizing permit coverage, providing tracking number (5.8.1.3); and

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- confirmation of delivery of the Notice of Intent (NOI) to the ADEC or to ADEC's electronic NOI system (5.8.1.4)

These documents must be included in Appendix F.

14.1 Additional Documentation Requirements (5.8.2)

- Dates when grading activities occur (5.8.2.1; insert in Appendix I).
- Dates when construction activities temporarily or permanently cease (5.8.2.2; insert in Appendix G).
- Dates when stabilization measures are initiated (5.8.2.3; insert in Appendix G).
- Date of beginning and ending period for winter shutdown (5.8.2.4; insert in Appendix G).
- Copies of inspection reports (5.5.2; 5.8.2.5; insert in Appendix K).
- Copies of monitoring reports, if applicable (5.8.2.6; insert in Appendix H).
- Documentation in support of chemical-treatment processes (4.5; 5.8.2.8; insert in Appendix H).
- Documentation of maintenance and repairs of control measures (5.8.2.10; 8.1; 8.2; insert in Appendix J).

14.1.1 Records of employee training (4.12; 5.8.2.9)

Training for staff and subcontractors will be documented using DOT&PF Construction Form 25D-125. Copies of the current qualification of the superintendant and SWPPP Manager and Form 25D-125 are included in Appendix I.

Individual(s) Responsible for Training:

Southeast Roadbuilders, Inc. Loren Tonsgard, Manager – Office Phone (907) 766-2833

Southeast Roadbuilders, Inc. Brenda Josephson, SWPPP Supervisor – Office Phone (907) 766-2833.

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15.0 MAINTAINING AN UPDATED SWPPP (5.9)

The permittee must modify the SWPPP, including site map(s), in response to any of the following:

- whenever changes are made to construction plans, control measures, good housekeeping measures, monitoring plan (if applicable), or other activities at the site that are no longer accurately reflected in SWPPP (5.9.1.1);
- if inspections of site investigations by staff or by local, state, tribal, or federal officials determine SWPPP modifications are necessary for permit compliance (5.9.1.2); and
- to reflect any revisions to applicable federal, state, tribal, or local laws that affect control measures implemented at the construction site (5.9.1.3).

15.1 Log of SWPPP Modifications (5.9.2)

A permittee must keep a log showing dates, name of person authorizing the change, and a brief summary of changes for all significant SWPPP modifications (e.g., adding new control measures, changes in project design, or significant storm events that cause replacement of control measures). A form to document SWPPP amendments has been placed at the beginning of this template.

15.2 Deadlines for SWPPP Modifications (5.9.3)

Revisions to the SWPPP must be completed within seven days of the inspection that identified the need for a SWPPP modification or within seven days of substantial modifications to the construction plans or changes in site conditions.

16.0 ADDITIONAL SWPPP REQUIREMENTS (5.10)

16.1 Retention of SWPPP (5.10.1)

A copy of the SWPPP (including a copy of the permit), NOI, and acknowledgement letter from ADEC must be retained at the construction site.

16.2 Main Entrance Signage (5.10.2)

A sign or other notice must be posted conspicuously near the main entrance of the site. The sign or notice must include a copy of the completed NOI.

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16.3 Availability of SWPPP (5.10.3)

The permittee must keep a current copy of the SWPPP at the site. The SWPPP must be made available to subcontractors, government and tribal agencies, and MS4 operators, upon request.

16.4 Signature and Certification (5.10.4)

The SWPPP must be signed and certified in accordance with the requirements of the 2011 ACGP Appendix A, Part 1.12. The certification forms on pages i and ii of this template meet the requirements of this paragraph.

APPENDICES

APPENDIX A – SITE MAPS

APPENDIX B – BMP DETAILS

APPENDIX C – PROJECT SCHEDULE

APPENDIX D – SUPPORTING DOCUMENTATION:

Historic Properties Findings – OHA – No Recorded Resources

Spring / Fall Freeze Probabilities

Monthly Climate Summary

NOAA Point Precipitation Frequency Estimates

USACE – NWP No. 14

Nationwide Permit Conditions

Alaska District Regional Conditions for 2012 Nationwide Permits

United States Department of the Interior – BLM Surface

Management BMPs

State of Alaska - Misc Land Use Permit # 5690

Palmer VMS Project Preliminary Aquatic Investigation

APPENDIX E – DELEGATION OF AUTHORITY, SUBCONTRACTOR CERTIFICATIONS

APPENDIX F – PERMIT CONDITIONS:

COPY OF SIGNED NOTICE OF INTENT

CONFIRMATION OF DELIVERY OF NOI TO ADEC

COPY OF LETTER FROM ADEC AUTHORIZING COVERAGE

ADEC NOI TRACKING NUMBER

COPY OF 2011 ALASKA CONSTRUCTION GENERAL PERMIT

APPENDIX G – GRADING AND STABILIZATION RECORDS

APPENDIX H – MONITORING PLAN (NOT APPLICABLE)

APPENDIX I – TRAINING RECORDS

APPENDIX J – CORRECTIVE ACTION LOG

APPENDIX K – INSPECTION RECORDS

APPENDIX L – RAINFALL LOG

APPENDIX M – HAZARDOUS MATERIAL CONTROL PLAN

APPENDIX N – AMENDMENT LOG

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APPENDIX O – STAFF TRACKING

APPENDIX P – PERSONNEL QUALIFICATIONS

APPENDIX Q – PRE-CONSTRUCTION SITE VISIT

APPENDIX R – SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

APPENDIX S - CORRESPONDENCE

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Signature and certification (5.10.4)

Southeast Road Builders, Inc.

(To be signed by Responsible Corporate Officer)

I certify under penalty of law that this document and all attachments were prepared under direction of Southeast Road Builders, Inc. 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.

Southeast Road Builders, Inc.



July 14, 2014

Signature

Date

Roger Schnabel

President

Print name

Title
