**Erosion And Sediment Control Plan**

Idaho Transportation Department (ITD)



# Instructions

The Erosion and Sediment Control Plan (ESCP) is a requirement for ITD projects which do not have coverage under the National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP).

Prior to ground disturbing activities, the Contractor designated support areas shall be identified and the disturbed area shall be recalculated to determine if the project is still exempt from NPDES permitting requirements.

To help you develop the ESCP use the following template. This template is designed to guide you through the ESCP development process and help ensure that your ESCP addresses all the necessary elements. EPA’s 2007 guidance document titled Developing Your Stormwater Pollution Prevention Plan can also be used to help you develop your ESCP. This guide can be found at: <http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-Pollution-Prevention-Plans-for-Construction-Activities.cfm> and on ITD’s stormwater management website: <http://itd.idaho.gov/enviro/Stormwater/Useful_Links/default.htm> along with other useful information including Best Management Practices Manuals, Standard Drawings, and other stormwater forms and templates.

**Using the ESCP Template:** This template was developed so that you can easily add text or tables. Some sections may require only a brief description while others may require more extensive explanation. Modify this template so that it meets the specific needs of your project.

Multiple operators may share the same ESCP, but make sure that responsibilities are clearly described, and that all signatory requirements are met.

The Best Management Practices (BMPs) from ITD’s BMP Manuals are listed in tables throughout the template. Refer to those manuals for further guidance on each BMP. The link is provided above.

## Applicable Federal, Tribal, State, or Local Programs

The ESCP shall meet the requirements of Section 212 of the Standard Specifications for Highway Construction and be consistent with all applicable federal, state, tribal, and/or local requirements or ordinances, including MS4 requirements, for erosion control and stormwater management and compliance.

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# Erosion and Sediment Control Plan Narrative Site Information

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Key Number | Project Name | | | | | |
|  |  | | | | | |
| Location/Address | | | City | | County | Zip Code |
|  | | |  | |  |  |
| Beginning Milepost (if applicable) | | Ending Milepost (if applicable) | |  | | |
|  | |  | |

**Operator(s)**

Idaho Transportation Department (ITD) District

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ITD Contact Name | | | Title | | |
|  | | |  | | |
| District Office Address | | City | County | | Zip Code |
|  | |  |  | |  |
| Telephone Number | E-mail Address | | | Fax Number | |
|  |  | | |  | |

## Contractor’s ESCP and 24 Hour Emergency Contact Information

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Company/Organization Name | | | Site Manager's Printed Name | | | |
|  | | |  | | | |
| Company/Organization Address | | City | | State | | Zip Code |
|  | |  | |  | |  |
| Telephone Number for 24/7/365 Availability | E-mail Address | | | | Fax Number | |
|  |  | | | |  | |

**Estimated Project Start Date**

**Estimated Project End Date**

# Section 1 - Project/Site Information

## Location Information

|  |  |  |
| --- | --- | --- |
| Project/Site Name | Project Street/Location/Milepost/Route | |
|  |  | |
| City | County | ZIP Code |
|  |  |  |

## Contact Information/Responsible Parties

**Prime Contractor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Company/Organization Name | | | | |
|  | | | | |
| Company/Organization Address | | City | State | Zip Code |
|  | |  |  |  |
| Telephone Number | E-mail Address | | Fax Number | |
|  |  | |  | |
| Area of Control (if there is more than one operator at the site) | | | | |
|  | | | | |

**Project Manager(s) or Site Supervisor(s)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Company/Organization Name | | | Manager/Supervisor's Name(s) | | |
|  | | |  | | |
| Company/Organization Address | | City | | State | Zip Code |
|  | |  | |  |  |
| Cell Phone Number | E-mail Address | | | Fax Number | |
|  |  | | |  | |
| Area of Control (if there is more than one operator at the site, insert area of control for each) | | | | | |
|  | | | | | |

**ESCP Preparer Information (Contractor)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Company/Organization Name | | | Preparer's Name | | |
|  | | |  | | |
| Company/Organization Address | | City | | State | Zip Code |
|  | |  | |  |  |
| Cell Phone Number | E-mail Address | | | | |
|  |  | | | | |

## ITD Resident Engineer Information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Engineer's Name | | | | |
|  | | | | |
| Address | | City | | Zip Code |
|  | |  | |  |
| Cell Phone Number | E-mail Address | | Fax Number | |
|  |  | |  | |

## General Scope of Work or Project Description

## Activity Description by Responsible Party

To add more rows, hit Tab in the last cell of the table.

|  |  |
| --- | --- |
| **Name and Contact Information for Subcontractor** | **Area of Subcontractor Controls/Work Performed** |
|  |  |
|  |  |
|  |  |
|  |  |

## Soils, Slopes, Vegetation, Existing Drainage Patterns, Climate

|  |
| --- |
| Soil Type(s) |
|  |
| Slopes - Describe existing slopes and any changes due to construction activities |
|  |
| Drainage Patterns - Describe existing drainage patterns and note any changes due to construction |
|  |
| Existing Vegetation |
|  |
| Climate/Rainfall Patterns - Check box that applies |
| Arid (0-10” annual rainfall)  Semi-Arid (10”-20” annual rainfall)  (20-30” annual rainfall)  (30”-40” annual rainfall) |

## Construction Site Estimates

The following are estimates of the project disturbance. Show acreage to the nearest 0.25 acre

Project site area to be disturbed -       acres

Off-site waste sites to be disturbed -       acres

Off-site borrow/source sites to be disturbed -       acres

Staging Area to be disturbed -       acres

Total project disturbed area -       acres

## Receiving Waters

|  |
| --- |
| Describe receiving surface waters (if applicable) |
|  |
| Describe receiving storm sewer systems (if applicable) and note MS4 areas |
|  |
| List immediate downstream water bodies (water bodies that are connected or would receive a direct discharge from the Project) that have been listed as impaired for sediment or waters subject to TMDLs by the Idaho Department of Environmental Quality (IDEQ) under Section 303(d) of the CWA |
|  |

## Site Features and Sensitive Areas that Require Protection

|  |
| --- |
| Provide a description of any unique features (such as wetlands) that require protection (if applicable) |
|  |
| If applicable, describe measures to protect these unique features |
|  |

## ESCP Plans and Site Maps

The ESCP will show the following locations:

Temporary and permanent BMPS

On-site staging areas, off-site material, waste, borrow or equipment storage or staging areas

Locations of all ITD defined hazardous materials

Any industrial stormwater discharges other than from project construction

Waters of the United States including wetlands, and storm sewer inlets

Insert a copy of all applicable Plan Sheets and/or Site Maps in **Appendix A**

## Potential Sources of Pollution

Use the table below to identify all potential pollutants and sources, other than sediment, to stormwater runoff

|  |  |  |
| --- | --- | --- |
| **Trade Name Material** | **Stormwater Pollutants** | **Location or N/A** |
| Fuels and/or Lubricants | Petroleum Distillates |  |
| Hydraulic Oils | Mineral Oil |  |
| Asphalts | Petroleum Distillates |  |
| Concrete/Curing Compounds | pH |  |
| Anti-freeze | Glycol, Heavy Metals |  |
| Paints | Organic Chemicals, VOCs |  |
| Fertilizers | Nutrients-Nitrogen, Phosphorous |  |
| Sanitary Toilets | Bacteria, Viruses, Parasites |  |
|  |  |  |

Add additional rows as needed by hitting Tab in the last cell of the table

Each of the pollutants listed in the table above must be addressed with a specific BMP.

# Section 2 - Erosion and Sediment Control BMPs

In the tables provided below, check the boxes of the BMPs that will be used on your project. Delete the BMPs that will not be used, or leave unchecked. Add any BMPS that might be required to meet your project needs.

BMPs should be implemented as needed at all designated staging and storage areas, source and borrow sites, and disposal/excess material/waste sites prior to initiating any ground disturbance activities in these areas.

**Note: In the following tables, ITD SD SPECS and Drawings, and BMP Numbers from ITD BMP Manuals are referenced beside each BMP**

## Minimize Disturbed Area and Protect Natural Features and Soil

|  |  |  |  |
| --- | --- | --- | --- |
| BMPs | Specification(s) | Check if Used | Implementation Schedule |
| Preservation of Existing / Natural Vegetation | - SD SPECS (201 and 202)  - EC-2 |  | Date  Location (Stations or MP) |

Preservation of natural existing vegetation shall be utilized throughout the project, where practical, to minimize erosion potential, minimize total ground disturbance, and minimize stormwater movement off site. Existing vegetated buffers (including preserving mature vegetation and trees) shall be utilized to minimize stormwater erosion potential and down slope movement to any watershed, water feature (including irrigation amenities or domestic water sources), or area susceptible to stormwater or surface water movement. The vegetated buffers shall consist of areas of undisturbed vegetation including grasses, shrubs, woody plants, and trees that are located between the traversed roadway section and the existing swales, ditches, canals, wetlands, and intermittent/perennial streams or rivers that are located within ITD right-of-way. The vegetated buffers shall be left undisturbed throughout the project life and act as permanent erosion and sediment control BMPs to ensure short and long-term slope stability.

## Phase Construction Activity

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Scheduling and Sequencing of Construction Activities | - SD SPECS (108, 205, and 212)  - EC-1 |  | Date  Location (Stations or MP) |

The specific scheduling and sequencing of construction activities are required to be outlined by the Contractor and become a permanent part of the ESCP. Records must be maintained as part of the ESCP and shall include dates and durations when major activities occur (i.e. soil disturbing activities); dates when construction activities temporarily or permanently cease on a portion of the site; and dates when stabilization measures have been initiated and are obtained. Scheduling and sequencing of construction activities including the CMP Schedule shall be documented in this ESCP by the Contractor. Describe major phases of construction in the spaces provided here:

Phase I



Phase II



Repeat as needed for additional Phases

## Control Stormwater Flowing Onto and Through the Project

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Coffer and Tarp Dams / Water Filled Bladders/ Aprons | - SD SPECS (210 and 501)  - EC-3 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Interceptor Ditches / Diversion Channels/Ditches | - SD SPECS (208, 209, and 212)  - SD Drawings (P-1-D, P-1-E, and P-2-E)  - EC-4 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Slope Drains | - SD SPECS (212 and 706)  - SD Drawings (P-1-A)  - EC-5 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Dikes / Berms | - SD SPECS (205, 209, and 212)  - SD Drawings P-1-F and P-1-E  - SC-1 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Channel Protection: | - Check Dams / Flexible Liners / Rigid Liners  - SD SPECS (209, 212, 512, 623, 624, 711, 715, and 718)  - SD Drawings (P-1-D, P-2-A, P-2-B, P-2-C, and P-2-D)  - SC-2, PC-3, PC-4 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Retention/Detention Sediment Basin(s)/Trap(s) | - SD SPECS (205 and 212)  - SD Drawings (P-1-A, P-1-C, P-1-D, P-1-E, P- 4-A, and P-4-B)  - SC-10 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Clear Water Diversion | - SD SPECS (N/A)  - NS-5 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

## Stabilize Soils and Protect Slopes

| BMP | Specification(s) | Check if Used | Implementation Schedule |
| --- | --- | --- | --- |
| Hydraulically Applied Erosion Control Products | - SD SPECS (212, 621, and 711)  - EC-6 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Hydroseeding | - SD SPECS (621 and 711)  - EC-7 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Soil Binders | - SD SPECS (212)  - EC-8 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Straw Mulch | - SD SPECS (212, 621, and 711)  - EC-9 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Wood Mulch | - SD SPECS (212, 621, and 711)  - EC-10 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Geotextiles, Plastic Covers, and Erosion Control Blanket | - SD SPECS (212, 621, and 711)  - EC-11 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Vegetation-Seeding | - SD SPECS (212 and 621)  - EC-12 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Dust Control | - SD SPECS (104, 106, 107, 205, 212, 621, and 711)  - EC-13 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Wind Erosion Control | - SD SPECS (205 and 212)  - EC-14 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

## Protect Storm Drain Inlets

| BMP | Specification(s) | Check if Used | Implementation Schedule |
| --- | --- | --- | --- |
| Inlet/Outlet Protection | - SD SPECS (212, 640, 711, and 718)  - SC-6 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

## Establish Perimeter Controls and Sediment Barriers

| BMP | Specification(s) | Check if Used | Implementation Schedule |
| --- | --- | --- | --- |
| Gravel Bag Barrier | - SD SPECS (212)  - SC-3 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Sandbag Barrier | - SD SPECS (212)  - SC-5 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Silt Fence | - SD SPECS (212 and 718)  - SC-7 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Sediment Retention Fiber Rolls | - SD SPECS (N/A)  - SC-8 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

## Retain Sediment On-Site

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Sediment-Desilting Basin | - SD SPECS (212)  - SD Drawings (P-1-C, P-1-D, P-4-A)  - SC-9 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Retention / Detention Sediment Basin(s) / Trap(s) | - SD SPECS (205 and 212)  - SD Drawings (P-1-A, P-1-C, P-1-D, P-1-E, P-4-A, and P-4-B)  - SC-10 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

## Establish Stabilized Construction Exits and Temporary Haul Roads

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Street Sweeping and Vacuuming | - SD SPECS (N/A)  - SC-4 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Temporary Construction Entrances | - SD SPECS (104, 205, and 212)  - SD Drawings (P-1-F)  - SC-11 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Temporary Roads | - SD SPECS (104, 107, 205, and 212)  - SC-12 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Entrance Outlet Tire Wash | - SD SPECS (621)  - SD Drawings (P-3-E)  -SC-13 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Temporary Stream Crossing | - SD SPECS (602)  - NS-4 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

Insert any required additional text or tables here

# Section 3 - Good Housekeeping BMPs

All staging areas, material storage/stockpile sites, source sites, disposal/excess material/waste sites, haul roads, temporary roads, construction entrances and exits, and any other disturbed soil areas not defined within the contract documents must be approved by the Resident Engineer and have BMPs implemented prior to approved use. All sitesrequire appropriate erosion, sediment, and pollution prevention control BMPs installed prior to initiation of construction and throughout the length of construction activities. The Contractor is responsible for attaching a record of Environmental Clearance/Approvals and for obtaining any permitting for any Contractor designated sites, including cultural resources, ESA, etc.

The following are material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.For the purposes of this plan and for any ITD projects, ***Hazardous Material*** is defined as “any material that poses harmful risks to human health and/or the environment. Includes any hazardous or toxic substance, waste, pollutant, or chemical regulated under the CAA, CWA, TSCA, and/or RCRA; a pollutant or contaminant as any substance likely to cause death, disease, abnormalities, etc. (CERCLA Sec. 101(33)); or those listed in 40 CFR 302. For ITD purposes, petroleum, lead paint, asbestos, and other substances will be considered hazardous materials, as identified in the scope of work”.

* An effort will be made to store only enough product required to complete the job
* All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible under a roof or other enclosure that minimizes contact with stormwater
* Products will be kept in their original containers with the original manufacturer’s label
* Substances will not be mixed with one another unless recommended by the manufacturer
* Whenever possible, all of the product will be used up before disposing of the container
* Manufacturer’s recommendations for proper use and disposal will be followed
* The site superintendent will inspect daily to ensure proper use and disposal of materials
* Tanks containing fuel will have secondary containment installed to contain any spilled material

## Material Handling and Waste Management in Staging Areas

| BMP | Specification(s) | Check if Used | Implementation Schedule |
| --- | --- | --- | --- |
| Staging and Materials Site Management | - SD SPECS (107)  - SD Drawings (P-1-D, P-3-E, and P-5-A)  - WM-1 |  | Date to be Implemented  Location (Stations or MP) |
| Solid Waste Management | - SD SPECS (N/A)  - WM-6 |  | Date to be Implemented  Location (Stations or MP) |
| Concrete Curing | - SD SPECS (N/A)  - NS-12 |  | Date to be Implemented  Location (Stations or MP) |
| Material and Equipment Use Over Water | - SD SPECS (N/A)  - NS-13 |  | Date to be Implemented  Location (Stations or MP) |
| Concrete Finishing | - SD SPECS (N/A)  - NS-14 |  | Date to be Implemented  Location (Stations or MP) |
| Structure Demolition-Removal Over or Adjacent to Water | - SD SPECS (N/A)  - NS-15 |  | Date to be Implemented  Location (Stations or MP) |
| Material Delivery and Storage | - SD SPECS (N/A)  - WM-2 |  | Date to be Implemented  Location (Stations or MP) |
| Material Use | - SD SPECS (N/A)  - WM-3 |  | Date to be Implemented  Location (Stations or MP) |
| Stockpile Management | - SD SPECS (N/A)  - WM-4 |  | Date to be Implemented  Location (Stations or MP) |
|  |  |  | Date to be Implemented  Location (Stations or MP) |

Solid and source site materials, excess materials, hazardous materials, vehicle equipment and maintenance, sanitary waste management, and waste in general shall be managed at designated staging and waste areas. Staging and waste areas should be located a minimum of 150-ft away from any water feature (including irrigation amenities or domestic water sources) or areas susceptible to stormwater or surface water movement.

Solid and source site materials, include but are not limited to, dedicated asphalt or concrete plants (where the manufacturing of asphalt or concrete will occur on-site), gravel pits, stockpiles, source sites, general construction materials, and excess materials. The Contractor shall use an approved licensed solid waste management company. The Contractor shall reuse and recycle trash, source materials, construction materials, and construction debris unless it is not usable. If it is not usable or cannot be recycled it will be considered solid waste. All solid waste materials, with the exception of source materials, will be collected and disposed of in a securely lidded dumpster and shall be covered and secured at night and during all precipitation events.Any leaky solid waste dumpster must be exchanged or replaced within 24-hours of confirmation.Collection and proper disposal of all leaking materials shall be the responsibility of the Contractor.

The Contractor shall arrange an adequate solid waste disposal schedule to ensure that there is adequate solid waste disposal capacity on-site at all times and that dumpsters do notoverflow and are emptied on a regular basis. All solid waste materials shall be removed from the project site throughout the duration and after the project is completed. Solid waste materials shall not be buried, burned, or discharged from the site.

## Designate Washout Areas

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Liquid Waste Management | - SD SPECS (N/A)  - WM-11 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Concrete Waste Management | - SD SPECS (N/A)  - SD Drawings (P-5-B)  - WM-9 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Entrance/Outlet Tire Wash | - SD SPECS (621)  - SD Drawings (P-3-E)  - SC-13 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

Concrete waste procedures and practices are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain systems or to watercourses. A wash station may also be required to prevent transporting noxious weeds and contaminated soils from a contaminated site to an uncontaminated site or road surface.

Covering or containing hazardous materials or washing contaminated equipment may be required. All vehicle and equipment cleaning and maintenance shall occur in a designated staging site/area and include a water pollution control equipment wash down area that shall have secondary containment and protection through the use of berms or other erosion and sediment controls or BMPs to reduce or eliminate discharges of pollutants.

The Contractor shall avoid mixing excess amounts of fresh concrete or cement mortar on-site. Storage of dry and wet materials associated with concrete should be located a minimum of 150-ft upslope of any water feature (including irrigation amenities or domestic water sources) or area susceptible to stormwater or surface water movement. The Contractor shall **Never** dispose of concrete, grout, or cement mortar washout into a watershed, water feature, or area susceptible to stormwater or surface water movement. Wash out concrete transit mixers only in designated washout areas. The Contractor shall design a temporary concrete washout station (s) as per ITD Standard Drawing P-5-B. All hardened concrete, grout, or cement mortar waste, including waste generated during equipment cleaning and QA/QC testing, shall be collected and transported to an approved licensed solid waste disposal/processing or recycling site by the Contractor.

## Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Vehicle and Equipment Fueling | - SD SPECS (N/A)  - SD Drawings (P-5-E)  - NS-9 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Vehicle and Equipment Maintenance | - SD SPECS (N/A)  - NS-10 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Pile Driving Operations | - SD SPECS (N/A)  - NS-11 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

Drip pans and drip cloths shall be used to drain and replace fluids. Spill prevention kits shall be located on site at all times and readily available in case of a leak, spill, or discharge and used when needed to contain and minimize unwanted and unnecessary leak, spill, or discharge impacts.

Fueling activities should be located at least 150’ away from surface water features. If site features do not allow this minimum setback, additional controls may be necessary. Additionally, if more stringent standards are required by permitting agencies or local entities, those standards shall be met.

Vehicles and construction equipment shall be monitored for leaks and receive regular preventative maintenance, and fueled on site using a portable service truck with a portable fuel tank or temporary storage tanks. Fueling shall occur within a hazardous materials containment staging area as approved by the ResidentEngineer.

|  |  |
| --- | --- |
| **Fueling and/or Maintenance Activity** | **Practices to be Implemented to Control Spills and/or Exposure to Stormwater** |
|  |  |
|  |  |
|  |  |
|  |  |

Add additional rows as needed by hitting Tab in the last cell of the table

## 

## Sanitary Waste BMPs

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Sanitary-Septic Waste Management | - SD SPECS (N/A)  - WM-10 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

Sanitary and Septic Waste procedures and practices are used to minimize or eliminate the discharge of construction site sanitary/septic waste materials to the storm drain system or to watercourses. Sanitary/septic waste management practices are implemented on all construction sites that use temporary or portable sanitary/septic waste systems. Temporary portable toilets from an approved licensed sanitary waste company shall be used during the duration of the project and maintained and cleaned as needed. Portable toilets shall be located at designated staging areas and have secondary containment in case of a leak, spill, or discharge. All sanitary waste will be collected from the portable units a minimum once per week. Placement and removal of all portable toilets shall be the responsibility of the Contractor.

## Contaminated Soil BMPs

|  |  |  |  |
| --- | --- | --- | --- |
| BMP and | Specification(s) | Check if Used | Implementation Schedule |
| Contaminated Soil Management | - SD SPECS (N/A)  - WM-8 |  | Date to be Implemented  Location (Stations or MP) |

Prior to construction or soil disturbance, ITD shall inspect the site for physical contamination. During the construction phase, if the Contractor detects evidence of contamination, or encounters leaks, spills, or discharges are detected, contaminated soils and water should be contained and held for testing whenever contamination is suspected. Any specific contaminant known to exist or that is discovered on site and which has contaminated soil or has the potential to contaminant soil and/or drainages or water features (including irrigation amenities or domestic water sources) shall be reported to the Resident Engineerimmediately. The Resident Engineer will coordinate clean-up of contaminated soils with the Idaho Communications Center (Statecom) at 1-800-632-8000.

## Allowable Non-Stormwater Discharge Management and Equipment/Vehicle Washing

Non-stormwater (dust control water, water used in road grading, irrigation drainage, springs or ground water dewatering, etc) may combine with stormwater and be present in the discharge at this site. All water shall be treated in the same manner as stormwater runoff. The same BMPs used in this ESCP for stormwater runoff shall be implemented to reduce non-stormwater impacts and limit non-stormwater discharges. The use of soap, solvents, and degreasers is specifically prohibited for cleaning use. Uncontaminated water discharge from dust control, dust abatement activities, and water used in road grading or excavation activities and compaction shall not reach waters of the United States.

The following incidental non-stormwater from the sources marked below may combine with stormwater and be present in the discharge at this site.

Hydrant or Water Line Flushing

Vehicle Wash-Down Water

Dust Control Water

Irrigation Drainage (including landscape)

Spring or Groundwater

Air Conditioner Condensate

Uncontaminated Foundation or Footing Drains

Pavement or Building Wash Water

Uncontaminated Excavation Dewatering (without detergents)

Potable Water

No Known Non-Stormwater Sources Apparent

List allowable non-stormwater discharges marked above and the measures used to eliminate or reduce them and to prevent them from becoming contaminated:

|  |  |
| --- | --- |
| **Allowable Non-Stormwater Discharges** | **Measures to be Implemented to Eliminate or Reduce Contamination** |
|  |  |
|  |  |
|  |  |
|  |  |

Add additional rows as needed by hitting Tab in the last cell of the table

## Non-Stormwater BMPs

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Water Conservation Practices | - SD SPECS (106 and 205)  - NS-1 |  | Date to be Implemented  Location (Stations or MP) |
| Dewatering Operations | - SD SPECS (N/A)  - NS-2 |  | Date to be Implemented  Location (Stations or MP) |
| Paving and Grinding Operations | - SD SPECS (203)  - NS-3 |  | Date to be Implemented  Location (Stations or MP) |
| Potable Water-Irrigation Management | - SD SPECS (N/A)  - NS-7 |  | Date to be Implemented  Location (Stations or MP) |
| Vehicle and Equipment Cleaning | - SD SPECS (N/A)  - SD Drawings ()  - NS-8 |  | Date to be Implemented  Location (Stations or MP) |
| Freeze Reduction | - SD SPECS (N/A)  - NS-16 |  | Date to be Implemented  Location (Stations or MP) |
| Snow Management | - SD SPECS (N/A)  - EC-15 |  | Date to be Implemented  Location (Stations or MP) |
| Snow Accumulation Management | - SD SPECS (N/A)  - EC-16 |  | Date to be Implemented  Location (Stations or MP) |
|  |  |  | Date to be Implemented  Location (Stations or MP) |

## Spill Prevention and Control BMPs

All ITD projects shall follow the Idaho Hazardous Materials/WMD Incident Command and Response Support Plan and ITD Incident Management Plan. In addition, a project Spill Plan shall be provided by the Contractor, and should be included in **Appendix B.** The ITD BMPs listed below also contain guidance on waste management, spill prevention and control, and cleanup.

|  |  |  |  |
| --- | --- | --- | --- |
| BMP | Specification(s) | Check if Used | Implementation Schedule |
| Spill Prevention and Control | - SD SPECS (N/A)  - WM-5 |  | Date to be Implemented  Location (Stations or MP) |
| Hazardous Waste Management | - SD SPECS (N/A)  - WM-7 |  | Date to be Implemented  Location (Stations or MP) |
| Illicit Connection-Illegal Discharge Detection and Reporting | - SD SPECS (N/A)  - NS-6 |  | Date to be Implemented  Location (Stations or MP) |
|  |  |  | Date to be Implemented  Location (Stations or MP) |

Per 40 CFR 112, if petroleum products are stored at the construction site aggregating 1320 gallons or more, a Spill Prevention, Control, and Countermeasure Plan (SPCC) plan will be required.

# Section 4 - Permanent Erosion or Sediment Control BMPs

Permanent erosion and sediment control BMPs shall be designated and referenced on the project bid plans in association to their placement locations and amounts, lengths, and types used and as specified by the Engineer. The following permanent erosion and sediment control BMPS or combination of control BMPs will be installed and used to collect, retain, and treat stormwater runoff and pollutant discharges and to provide permanent stabilization of disturbed soils per ITD ESCP requirements. In the table provided below, check the boxes of the BMPs that will be used on your project and insert implementation/installation times. Delete the BMPs that will not be used, or leave unchecked.

| BMP | Specification(s) | Check if Used | Implementation Schedule |
| --- | --- | --- | --- |
| Channel Protection - Check Dams | - SD SPECS (212)  - SD Drawings (P-2-B)  - PC-1 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Sheet Flow to Buffers | - SD SPECS (N/A)  - PC-2 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Channel Protection-Flexible Liners | - SD SPECS (212 and 624)  - SD Drawings (P-2-A and P-2-C)  - PC-3 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Channel Protection-Rigid Channel Liners | - SD SPECS (209 and 623)  - SD Drawings (P-2-D)  - PC-4 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Dikes and Berms | - SD SPECS (205, 209, and 212)  - SD Drawings (P-1-E and P-1-F)  - PC-5 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Dry Swale | - SD SPECS (N/A)  - PC-6 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Wet Swale | - SD SPECS (N/A)  - PC-7 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Geosynthetics | - SD SPECS (640 and 718)  - PC-8 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Surface Sand Filter | - SD SPECS (N/A)  - PC-9 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Subsurface Sand Filter | - SD SPECS (N/A)  - PC-10 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Perimeter Sand Filter | - SD SPECS (N/A)  - PC-11 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Organic Filter | - SD SPECS (N/A)  - PC-12 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Pocket Sand Filter | - SD SPECS (N/A)  - PC-13 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Bioretention | - SD SPECS (N/A)  - PC-14 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Inlet-Outlet Protection | - SD SPECS (212, 608, 609, 640, 711, 718)  - SD Drawings (D-1-A, D-1-B, P-1-A, P-1-H, and P-2-F)  - PC-15 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Interceptor Ditches | - SD SPECS (208 and 209)  - PC-16 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Retaining Walls | - SD SPECS (210 and 512)  - PC-17 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Stormwater Basins | - SD SPECS (205 and 212)  - SD Drawings (P-1-C and P-4-A)  - PC-18 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Extended Detention Basin with Micropool | - SD SPECS (N/A)  - PC-19 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Wet Basin | - SD SPECS (N/A)  - PC-20 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Wet Extended Detention Basin | - SD SPECS (N/A)  - PC-21 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Shallow Wetland | - SD SPECS (N/A)  - PC-22 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Extended Detention Shallow Wetland | - SD SPECS (N/A)  - PC-23 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Pond Wetland System | - SD SPECS (N/A)  - PC-24 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Pocket Wetland | - SD SPECS (N/A)  - PC-25 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Sediment Control Box | - SD SPECS (605 and 609)  - SD Drawings (E-6-A-F, P-1-H, P-3-A, P-3-B, and P-3-D)  - PC-26 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Infiltration Trench | - SD SPECS (N/A)  - PC-27 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Infiltration Basin | - SD SPECS (N/A)  - PC-28 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Slope Drains - Chutes - Flumes | - SD SPECS (208, 212, 409, 606, 607, and 609)  - SD Drawings (D-1-A, D-1-B, and P-2-D)  - PC-29 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Rock Armor / Mulch – Turf Reinforced Mat | - SD SPECS (N/A)  - PC-30 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Serrations / Roughening | - SD SPECS (205)  - ITD Design Manual Sec. 5.6  - PC-31 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Terraces / Benching | - SD SPECS (205)  - ITD Design Manual Sec. 5.6  - PC-32 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Topsoil Management | - SD SPECS (213 and 711.09)  - PC-33 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Vegetation-Seeding | - SD SPECS (621, 711.05, 711.12, 711.06)  - PC-34 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Vegetation-Planting | - SD SPECS (620 and 711.06)  - PC-35 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Water Quality Inlet/Oil Grit Separator | - SD SPECS (N/A)  - PC-36 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Street Sweeping | - SD SPECS (N/A)  - PC-37 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Deep Sump Catch Basin | - SD SPECS (N/A)  - PC-38 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| On-line Storage in Storm Drain Network (Vaults) | - SD SPECS (N/A)  - PC-39 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Porous Pavements | - SD SPECS (N/A)  - PC-40 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
| Proprietary Manufactured Systems | - SD SPECS (N/A)  - PC-41 |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |
|  |  |  | Date to be Implemented  Location (Stations or MP)  Quantity of BMP |

# Section 5 - Inspection and Maintenance Requirements

## Inspections

* Contractor shall inspect and maintain all structural and non-structural control measures for functionality as required by the contract
* Conduct inspections using the inspection and corrective action log form in the Appendix
* Completed, certified, and executed Inspection Forms serve as a Corrective Action Log for ITD projects. These forms should be retained along with this ESCP in **Appendix C**

All BMP deficiencies identified during the inspection, or any inadequacies related to the ESCP, must be corrected as soon as possible but never later than 7 days after the inspection.

## Maintaining an Updated ESCP Plan

Changes to the ESCP must be documented and may include any one of the following:

Construction methods

Operation methods

Design of the project (including civil plan sheets)

In the field change orders

Maintenance or inspection procedures

Staging sites

Material source sites/stockpile sites

Disposal/excess material/waste sites

Haul roads, temporary roads, and locations where vehicles travel and enter or exit staging areas and construction sites

Implementation and maintenance of BMPs

Stormwater discharge locations

Sequencing/scheduling changes

Impacts to wetlands or sensitive areas

Changes in personnel

All of these can result in the need for additional BMPs, and therefore an ESCP update.

The sole objective of all modifications is to keep the ESCP concurrent to existing on-the-ground conditions and to eliminate erosion and sediment impacts, as well as other pollutant impacts that could potentially result from the project. All modifications to the ESCP shall be documented in **Appendix C** through the completion of inspections reports that shall serve as the corrective action log on this project.

# Section 6 - Recordkeeping

## Low Erosivity Waiver

If this ESCP is being prepared in lieu of a Stormwater Pollution Prevention Plan based on the applicability of obtaining a Low Erosivity Waiver for the project, a copy of ITD, the Contractor, and any applicable local entity filing for a Low Erosivity Waiver (LEW) should be included in **Appendix D**. Guidance on the applicability of the LEW on your project can be found at the following website: <http://water.epa.gov/polwaste/npdes/stormwater/Welcome-to-the-Rainfall-Erosivity-Factor-Calculator.cfm>

Attention should be given to the expirations date on the LEW.

## Inspections

Completed, certified, and executed Inspection Forms serve as a Corrective Action Log for ITD projects. These forms should be retained along with this ESCP in **Appendix C**.

# Section 7 - Certification and Notification

|  |  |  |  |
| --- | --- | --- | --- |
| ITD Representative's Printed Name | Title | Signature | Approval Date |
|  |  |  |  |

**Contractor Certification Statement**

As an operator, I certify that this Erosion and Sediment Control Plan (ESCP) narrative 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. As an operator, I certify that I understand requirements of the Clean Water Act as it relates to my activities and will, to the maximum extent practicable, implement BMP’s to minimize release of pollutants into the environment.

|  |  |  |  |
| --- | --- | --- | --- |
| Contractor's Printed Name | Title | Signature | Date |
|  |  |  |  |

Place all signed copies of the Subcontractor Certification/Agreement form in **Appendix E**.

# Appendices

Appendix A – ESCP Plan Sheets and Site Maps

Appendix B – Basic Spill Prevention and Control Plan Language

In addition to all the erosion and sediment control BMPs, non-stormwater BMPs, and good housekeeping BMPs discussed in the this ESCP plan, the minimum following information will be provided by the Contractor for Spill Prevention and Cleanup:

1. Contact information for Contractor’s designated Spill Coordinator for the project. This person must have authority to mobilize equipment, personnel, and materials in the event of a spill or discharge.
2. Documentation of training and/or education on spill response and cleanup.
3. Description of the location and content of spill kits on the project site.

Appendix C – Executed Inspection Reports/Corrective Action Log

Appendix D – Low Erosivity Waivers (if applicable)

Appendix E – Subcontractor Certifications/Agreements

Subcontractor Certification for Erosion and Sediment Control Plan

|  |  |  |
| --- | --- | --- |
| Project Number | Project Name | Operator(s) |
|  |  |  |

As a subcontractor, you are required to comply with the Erosion and Sediment Control Plan (ESCP) for any work that you perform on-site. Any person or group who violates any condition of the ESCP 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 ESCP. A copy of the ESCP is available for your review at the office trailer.

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Company Name | Address | | City | State | Zip Code |
|  |  | |  |  |  |
| Telephone Number | Construction Service to be Provided | | | | |
|  |  | | | | |
| Printed Name | Title | Signature | | Date | |
|  |  |  | |  | |