Stormwater Pollution Prevention Plan

 for:

City of Bartlesville Operations Center

1700 W Adams Blvd

Bartlesville, OK 74003

918-338-4103

Operator(s):

City of Bartlesville

Ed Gordon, City Manager

401 S Johnstone

Bartlesville, OK 74003

918-338-4001

fax 918-338-4259

eegordon@cityofbartlesville.org

SWPPP Contact(s):

City of Bartlesville

Keith Henry, Director of Public Works

1700 W Adams Blvd

Bartlesville, OK 74003

918-338-4103

fax918-338-4139

kbhenry@cityofbartlesville.org

SWPPP Preparation Date:

**August 2010**

*Estimated Project Dates:*

**Project Start Date: \_\_ \_NA\_ / \_\_ \_\_ / \_\_ \_\_ \_\_ \_\_**

**Project Completion Date: \_\_NA \_\_ / \_\_ \_\_ / \_\_ \_\_ \_\_ \_\_**

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# SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

## 1.1 Project/Site Information

Instructions:

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

|  |
| --- |
| Project/Site Name: City of Bartlesville Operations Center  |
| Project Street/Location:  |
| City:  | State:  | ZIP Code:  |
| County or Similar Subdivision: Washington |
| Latitude/Longitude (Use **one** of three possible formats, and specify method) |
| Latitude: | Longitude: |
| 1. \_ \_ º \_ \_ ' \_ \_'' N (degrees, minutes, seconds) | 1. \_ \_ º \_ \_ ' \_ \_'' W (degrees, minutes, seconds) |
| 2. \_ \_ º \_ \_ . \_ \_' N (degrees, minutes, decimal) | 2. \_ \_ º \_ \_ . \_ \_' W (degrees, minutes, decimal) |
| 3. \_36.749 º N (decimal) | 3. 95.9974 º W (decimal) |
| Method for determining latitude/longitude:  |
| [ ]  USGS topographic map (specify scale: ) | [ ]  EPA Web site | [ ]  GPS |
| [x]  Other (please specify): Corpscon conversion from State Plane |
| Is the project located in Indian country? [ ]  Yes [x]  No |
| If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable."  |
|   |
| Is this project considered a federal facility? [ ]  Yes [x]  No |
| NPDES project or permit tracking number\*:  |
| *\*(This is the unique identifying number assigned to your project by your permitting authority after you have applied for coverage under the appropriate National Pollutant Discharge Elimination System (NPDES) construction general permit.)* |

## 1.2 Contact Information/Responsible Parties

Instructions:

* List the operator(s), project managers, stormwater contact(s), and person or organization that prepared the SWPPP. Indicate respective responsibilities, where appropriate.
* Also, list subcontractors expected to work on-site. Notify subcontractors of stormwater requirements applicable to their work.
* See *SWPPP Guide*, Chapter 2.B.

|  |
| --- |
| **Operator(s):** |
| City of Bartlesville: |
| City of Bartlesville Operations Center |
| :401 S Johnstone  |
| : Bartlesville, OK 74003 |
| 918-338-4001: |
| 918-338-4259: |
| NA: |
|  |

|  |
| --- |
| **Project Manager(s) or Site Supervisor(s):** |
| City of Bartlesville Operations Center  |
| 1700 W Adams BlvdInsert Address: |
| Bartlesville, OK 74003  |
| 918-338-4103  |
| Fax 918-338-4139  |

|  |
| --- |
| **SWPPP Contact(s):** |
| Keith Henry, Director of Public Works  |
| 1700 W Adams Blvd  |
| Bartlesville, OK 74003  |
| 918-338-4103Insert Telephone Number: |
| Fax 918-338-4139kbhenry@cityofbartlesville.org: |

|  |
| --- |
| **This SWPPP was Prepared by:** |
| City of Bartlesville Engineering Department: |
| Daryl Worley, P.E.: |
| 401 S Johnstone Ave |
| Bartlesville, OK 74003: |
| 918-338-4258 |
| dlworley@cityofbartlesville.org |

|  |
| --- |
| **Emergency 24-Hour Contact:** |
| City of Bartlesville  |
| City of Bartlesville Operations Center  |
| 918-338-4055  |

## 1.3 Nature and Sequence of Construction Activity

Instructions:

* Briefly describe the nature of the construction activity and approximate time frames (one or more paragraphs, depending on the nature and complexity of the project).
* For more information, see *SWPPP Guide*, Chapter 3.A.

|  |
| --- |
| Describe the general scope of the work for the project, major phases of construction, etc:  |
| The Operations Center serves as the operational headquarters for the Street Department, Water and Sewer Department, Park Department, Solid Waste Department, and Building Maintenance.It is the site that is used to store the materials necessary for the operation of a city of 34,999 people.It could be compared to the lay down yard for a heavy construction company with the addition of storage areas for ice melting materials. |
| What is the function of the construction activity? |
| [ ]  Residential [ ]  Commercial [ ]  Industrial [ ]  Road Construction [ ]  Linear Utility |
| [x]  Other (please specify):Lay Down Yard |
| Estimated Project Start Date: \_NA\_ \_\_ / \_\_ \_\_ / \_\_ \_\_ \_\_ \_\_ |
| Estimated Project Completion Date: \_\_ NA\_\_ / \_\_ \_\_ / \_\_ \_\_ \_\_ \_\_ |

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

Instructions:

* Describe the existing soil conditions at the construction site including soil types, slopes and slope lengths, drainage patterns, and other topographic features that might affect erosion and sediment control.
* Also, note any historic site contamination evident from existing site features and known past usage of the site.
* This information should also be included on your site maps (See *SWPPP Guide*, Chapter 3.C.).
* For more information, see *SWPPP Guide*, Chapter 3.A.

|  |
| --- |
| Soil type(s):C |
|  |
| Slopes (describe current slopes and note any changes due to grading or fill activities):  |
| <1% |
| Drainage Patterns (describe current drainage patterns and note any changes dues to grading or fill activities): |
| The site generally slopes form the SE to the NW. Water is intercepted by a ditch that runs from S to N near the center of the site. |
| Vegetation: Except for the ditches the site is paved. |
|  |
| Other: |
|  |

## 1.5 Construction Site Estimates

Instructions:

* Estimate the area to be disturbed by excavation, grading, or other construction activities, including dedicated off-site borrow and fill areas.
* Calculate the percentage of impervious surface area before and after construction
* Calculate the runoff coefficients before and after construction.
* For more information, see *SWPPP Guide*, Chapter 3.A and Appendix C.

|  |
| --- |
| The following are estimates of the construction site. |
| Total project area: | 6.7     acres |
| Construction site area to be disturbed : | No additional disurbance |
| Percentage impervious area before construction: | NA |
| Runoff coefficient before construction: | .9 |
| Percentage impervious area after construction: | NA |
| Runoff coefficient after construction |  |

## 1.6 Receiving Waters

Instructions:

* List the waterbody(s) that would receive stormwater from your site, including streams, rivers, lakes, coastal waters, and wetlands. Describe each as clearly as possible, such as Mill Creek, a tributary to the Potomac River, and so on.
* Indicate the location of all waters, including wetlands, on the site map.
* Note any stream crossings, if applicable.
* List the storm sewer system or drainage system that stormwater from your site could discharge to and the waterbody(s) that it ultimately discharges to.
* If any of the waterbodies above are impaired and/or subject to Total Maximum Daily Loads (TMDLs), please list the pollutants causing the impairment and any specific requirements in the TMDL(s) that are applicable to construction sites. Your SWPPP should specifically include measures to prevent the discharge of these pollutants.
* For more information, see *SWPPP Guide*, Chapter 3.A and 3.B.
* Also, for more information and a list of TMDL contacts and links by state, visit [www.epa.gov/npdes/stormwater/tmdl](http://www.epa.gov/npdes/stormwater/tmdl).

|  |
| --- |
| Description of receiving waters: The storm water is discharged to the City of Bartlesville MSIV. It then flows west then north then east then north to an un-named tributary of the Caney River. |
|  |
| Description of storm sewer systems:See Above |
|  |
| Description of impaired waters or waters subject to TMDLs:NA |
|  |
| Other:NA |
|  |

## 1.7 Site Features and Sensitive Areas to be Protected

Instructions:

* Describe unique site features including streams, stream buffers, wetlands, specimen trees, natural vegetation, steep slopes, or highly erodible soils that are to be preserved.
* Describe measures to protect these features.
* Include these features and areas on your site maps.
* For more information, see *SWPPP Guide*, Chapter 3.A and 3.B.

|  |
| --- |
| Description of unique features that are to be preserved:  |
|  |
| Describe measures to protect these features: There are no unique site features that need to be protected. |
|  |

## 1.8 Potential Sources of Pollution

Instructions:

* Identify and list all potential sources of sediment, which may reasonably be expected to affect the quality of stormwater discharges from the construction site.
* Identify and list all potential sources of pollution, other than sediment, which may reasonably be expected to affect the quality of stormwater discharges from the construction site.
* For more information, see *SWPPP Guide*, Chapter 3.A.

|  |  |
| --- | --- |
| Location | Pollutant |
| Vehicle Fueling | Gasoline and Diesel |
| Disabled Vehicle Storage |  Gasoline, Diesel, and Battery Acid, Lead from Batteries, Antifreeze, Motor Oil, Oil and Grease, and pH |
| Road Deicing Material Storage and Handling | Salt, pH, and Sediments |
| Aggregate Materials Storage | Sediments, pH |
| Vehicle and Equipment Storage | Gasoline, Diesel, and Battery Acid, Lead from Batteries, Antifreeze, Motor Oil, Oil and Grease, and pH |
| Street Sweeping Debris Storage | Salt, Sediments, Floatables |
| Solid Waste Truck Washdown Rack | Gasoline, Diesel, and Battery Acid, Lead from Batteries, Antifreeze, Oil and Grease, Floatables |
| Vehicle Maintenance | Gasoline, Diesel, and Battery Acid, Lead from Batteries, Antifreeze, Motor Oil, Oil and Grease, Cleaning Solvents |
| Vehicle and Equipment Wash Rack | Gasoline, Diesel, and Battery Acid, Lead from Batteries, Antifreeze, Motor Oil, Oil and Grease, Sediment, and pH |
| Used Parts Storage (various locations) | Oil and Grease, Oxidized Iron, Paint Chips, Sediment |
| Hydraulic Oil Dispenser | Oil and Grease, Sediment |
| Cold Lay Asphalt Storage | Total Suspended Solids, Oil and Grease, pH, and Chemical Oxygen Demand |

## 1.9 Endangered Species Certification

Instructions:

* Before beginning construction, determine whether endangered or threatened species or their critical habitats are on or near your site.
* Adapt this section as needed for state or tribal endangered species requirements and, if applicable, document any measures deemed necessary to protect endangered or threatened species or their critical habitats.
* For more information on this topic, see *SWPPP Guide*, Chapter 3.B.
* Additional information on Endangered Species Act (ESA) provisions is at [www.epa.gov/npdes/stormwater/esa](http://www.epa.gov/npdes/stormwater/esa)

|  |
| --- |
| Are endangered or threatened species and critical habitats on or near the project area? |
| [ ]  Yes [x]  No |
| Describe how this determination was made:  |
| OPDES Permit OKR04 for Small MS4s, Feb 8, 2005; Exhibit 2 Endangered Species, Page 44 |
| If yes, describe the species and/or critical habitat:  |
| NA |
| If yes, describe or refer to documentation that determines the likelihood of an impact on identified species and/or habitat and the steps taken to address that impact. (Note, if species are on or near your project site, EPA strongly recommends that the site operator work closely with the appropriate field office of the U.S. Fish and Wildlife Service or National Marine Fisheries Service. For concerns related to state or tribal listing of species, please contact a state or tribal official.)  |
| NA |

## 1.10 Historic Preservation

Instructions:

* Before you begin construction, you should review federal and any applicable state, local, or tribal historic preservation laws and determine if there are historic sites on or near your project. If so, you might need to make adjustments to your construction plans or to your stormwater controls to ensure that these historic sites are not damaged.
* For more information, see *SWPPP Guide*, Chapter 3.B or contact your state or tribal historic preservation officer.

|  |
| --- |
| Are there any historic sites on or near the construction site?  |
| [ ]  Yes [x]  No |
| Describe how this determination was made: |
| Historical knowledge of the area |
| If yes, describe or refer to documentation that determines the likelihood of an impact on this historic site and the steps taken to address that impact. |
| NA |

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

Instructions:

* Note other applicable federal, tribal, state or local soil and erosion control and stormwater management requirements that apply to your construction site.

|  |
| --- |
| Not Applicable |

## 1.12 Maps

Instructions:

* Attach site maps. For most projects, a series of site maps is recommended. The first should show the undeveloped site and its current features. An additional map or maps should be created to show the developed site or for more complicated sites show the major phases of development.

These maps should include the following:

* Direction(s) of stormwater flow and approximate slopes before and after major grading activities;
* Areas and timing of soil disturbance;
* Areas that will not be disturbed;
* Natural features to be preserved;
* Locations of major structural and non-structural BMPs identified in the SWPPP;
* Locations and timing of stabilization measures;
* Locations of off-site material, waste, borrow, or equipment storage areas;
* Locations of all waters of the United States, including wetlands;
* Locations where stormwater discharges to a surface water;
* Locations of storm drain inlets; and
* Areas where final stabilization has been accomplished.
* For more information, see *SWPPP Guide*, Chapter 3.C.

Include the site maps with the SWPPP. General Location Map Appendix A

Site Map Appendix B

# SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

Instructions:

* Describe the BMPs that will be implemented to control pollutants in stormwater discharges. For each major activity identified, do the following
	+ Clearly describe appropriate control measures.
	+ Describe the general sequence during the construction process in which the measures will be implemented.
	+ Describe the maintenance and inspection procedures that will be used for that specific BMP.
	+ Include protocols, thresholds, and schedules for cleaning, repairing, or replacing damaged or failing BMPs.
	+ Identify staff responsible for maintaining BMPs.
	+ (If your SWPPP is shared by multiple operators, indicate the operator responsible for each BMP.)
* Categorize each BMP under one of the following 10 areas of BMP activity as described below:

***2.1 Minimize disturbed area and protect natural features and soil***

***2.2 Phase Construction Activity***

***2.3 Control Stormwater flowing onto and through the project***

***2.4 Stabilize Soils***

***2.5 Protect Slopes***

***2.6 Protect Storm Drain Inlets***

***2.7 Establish Perimeter Controls and Sediment Barriers***

***2.8 Retain Sediment On-Site and Control Dewatering Practices***

***2.9 Establish Stabilized Construction Exits***

***2.10 Any Additional BMPs***

* Note the location of each BMP on your site map(s).
* For any structural BMPs, you should provide design specifications and details and refer to them. Attach them as appendices to the SWPPP or within the text of the SWPPP.
* For more information, see *SWPPP Guide*, Chapter 4.
* Consult your state’s design manual or one of those listed in Appendix D of the *SWPPP Guide*.
* For more information or ideas on BMPs, see EPA’s National Menu of BMPs <http://www.epa.gov/npdes/stormwater/menuofbmps>

## The area of the Operation Center is paved. It discharges to a grassed swale which operates as a bio-detention swale. This swale allows time for sediment to settle prior to discharge to the MSIV.

## 2.1 Minimize Disturbed Area and Protect Natural Features and Soil

Instructions:

* Describe the areas that will be disturbed with each phase of construction and the methods (e.g., signs, fences) that you will use to protect those areas that should not be disturbed. Describe natural features identified earlier and how each will be protected during construction activity. Also describe how topsoil will be preserved. Include these areas and associated BMPs on your site map(s) also. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 1.)
* Also, see EPA’s *Preserving Natural Vegetation BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/perserve\_veg](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/perserve_veg)

Area is paved.

## 2.2 Phase Construction Activity

Instructions:

* Describe the intended construction sequencing and timing of major activities, including any opportunities for phasing grading and stabilization activities to minimize the overall amount of disturbed soil that will be subject to potential erosion at one time. Also, describe opportunities for timing grading and stabilization so that all or a majority of the soil disturbance occurs during a time of year with less erosion potential (i.e., during the dry or less windy season). (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 2.) It might be useful to develop a separate, detailed site map for each phase of construction.
* Also, see EPA’s *Construction Sequencing BMP Fact Sheet* at <http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_seq>)

## Construction on project is complete. This section is Not Applicable.

## 2.3 Control Stormwater Flowing onto and through the Project

Instructions:

* Describe structural practices (e.g., diversions, berms, ditches, storage basins) including design specifications and details used to divert flows from exposed soils, retain or detain flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 3.)

The site is at the beginning of a watershed. There is not a significant amount of water flowing onto the site.

## 2.4 Stabilize Soils

Instructions:

* Describe controls (e.g., interim seeding with native vegetation, hydroseeding) to stabilize exposed soils where construction activities have temporarily or permanently ceased. Also describe measures to control dust generation. Avoid using impervious surfaces for stabilization whenever possible. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 4.)
* Also, see EPA’s *Seeding BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/seeding](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/seeding)

The site is paved. No seeding is required.

## 2.5 Protect Slopes

Instructions:

* Describe controls (e.g., erosion control blankets, tackifiers) including design specifications and details that will be implemented to protect all slopes. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 5.)
* Also, see EPA’s *Geotextiles BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/geotextiles](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/geotextiles)

The slope on the site is less than 1%. It is also paved. No slope protection is required.

## 2.6 Protect Storm Drain Inlets

Instructions:

* Describe controls (e.g., inserts, rock-filled bags, or block and gravel) including design specifications and details that will be implemented to protect all inlets receiving stormwater from the project during the entire project. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 6.)
* Also, see EPA’s *Storm Drain Inlet Protection BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/storm\_drain](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/storm_drain)

The water flows into a bio-retention swale. This acts as the BMP for inlet protection.

## 2.7 Establish Perimeter Controls and Sediment Barriers

Instructions:

* Describe structural practices (e.g., silt fences or fiber rolls) including design specifications and details to filter and trap sediment before it leaves the construction site. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 7.)
* Also see, EPA’s *Silt Fence BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/silt\_fences](http://www.epa.gov/npdes/pubs/www.epa.gov/npdes/stormwater/menuofbmps/construction/silt_fences), or *Fiber Rolls BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/fiber\_rolls](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/fiber_rolls)

The site is paved and discharges to a bio-retention swale. No perimeter structural practices are required.

## 2.8 Retain Sediment On-Site

Instructions:

* Describe sediment control practices (e.g., sediment trap or sediment basin), including design specifications and details (volume, dimensions, outlet structure) that will be implemented at the construction site to retain sediments on-site. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 8.)
* Also, see EPA’s *Sediment Basin BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/sediment\_basins](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/sediment_basins)

The site is paved. This is the best management practice for sediment control.

##

## 2.9 Establish Stabilized Construction Exits

Instructions:

* Describe location(s) of vehicle entrance(s) and exit(s), procedures to remove accumulated sediment off-site (e.g., vehicle tracking), and stabilization practices (e.g., stone pads or wash racks or both) to minimize off-site vehicle tracking of sediments and discharges to stormwater. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 9.)
* Also, see EPA’s *Construction Entrances BMP Fact Shee*t at [www.epa.gov/npdes/stormwater/menuofbmps/construction/cons\_entrance](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_entrance)

The site is paved. No construction entrance required.

## 2.10 Additional BMPs

Instructions:

* Describe additional BMPs that do not fit into the above categories.

No additional Structural Best Management Practices are required.

#

# SECTION 3: GOOD HOUSEKEEPING BMPS

Instructions:

* Describe the key good housekeeping and pollution prevention (P2) BMPs that will be implemented to control pollutants in stormwater.
* Categorize each good housekeeping and pollution prevention (P2) BMP under one of the following seven categories:

***3.1 Material Handling and Waste Management***

***3.2 Establish Proper Building Material Staging Areas***

***3.3 Designate Washout Areas***

***3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices***

***3.5 Allowable Non-Stormwater Discharges and Control Equipment/Vehicle Washing***

***3.6 Spill Prevention and Control Plan***

***3.7 Any Additional BMPs***

* For more information, see *SWPPP Guide*, Chapter 5.
* Consult your state’s design manual or resources in Appendix D of the *SWPPP Guide*.
* For more information or ideas on BMPs, see EPA’s National Menu of BMPs <http://www.epa.gov/npdes/stormwater/menuofbmps>

## 3.1 Material Handling and Waste Management

Instructions:

* Describe measures (e.g., trash disposal, sanitary wastes, recycling, and proper material handling) to prevent the discharge of solid materials to receiving waters, except as authorized by a permit issued under section 404 of the CWA (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 1.)
* Also, see EPA’s *General Construction Site Waste Management BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/cons\_wasteman](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_wasteman)

|  |
| --- |
| ***BMP Description: Salt Storage*** |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlyMaintained as needed. |
| ***Responsible Staff:***  | Street Department Supervisor |
| ***BMP Description: Aggregate Piles*** |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlyMaintained as needed |
| ***Responsible Staff:***  | Street Department Supervisor |

## 3.2 Establish Proper Building Material Staging Areas

Instructions:

* Describe construction materials expected to be stored on-site and procedures for storage of materials to minimize exposure of the materials to stormwater. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 2.)

|  |
| --- |
| ***BMP Description: Used material storage*** |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlyMaintained as needed |
| ***Responsible Staff:***  | Street Department Supervisor |

## 3.3 Designate Washout Areas

Instructions:

* Describe location(s) and controls to eliminate the potential for discharges from washout areas for concrete mixers, paint, stucco, and so on. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 3.)
* Also, see EPA’s *Concrete Washout BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/concrete\_wash](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/concrete_wash)

|  |
| --- |
| ***BMP Description: Equipment Wash Rack*** |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlyMaintained as needed |
| ***Responsible Staff:***  | Street Department Supervisor |

## 3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

Instructions:

* Describe equipment/vehicle fueling and maintenance practices that will be implemented to control pollutants to stormwater (e.g., secondary containment, drip pans, and spill kits) (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 4.)
* Also, see EPA’s *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile\_maintain](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile_maintain)

|  |
| --- |
| ***BMP Description: Fueling Station*** |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlyMaintained as needed. |
| ***Responsible Staff:***  | Street Department Supervisor |

A spill kit will be located inside the dispenser control room.

|  |
| --- |
| ***BMP Description: Hydraulic Oil Station*** |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlyMaintained as needed. |
| ***Responsible Staff:***  | Street Department Supervisor |

A spill kit will be located inside the dispenser building.

## 3.5 Control Equipment/Vehicle Washing

Instructions:

* Describe equipment/vehicle washing practices that will be implemented to control pollutants to stormwater. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 5.)
* Also, see EPA’s *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile\_maintain](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile_maintain)

|  |
| --- |
| ***BMP Description:*** Sanitation and Equipment Preliminary Wash Rack |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlySump drained bi-monthly or more frequently depending on inspection |
| ***Responsible Staff:***  | Sanitation Supervisor |

|  |
| --- |
| ***BMP Description: Operations Wash Rack(Indoor)*** |
| ***Installation Schedule:***  | Installed |
| ***Maintenance and Inspection:***  | Inspected MonthlyRepaired as needed |
| ***Responsible Staff:***  | Sanitation Supervisor |

## 3.6 Spill Prevention and Control Plan

Instructions:

* Describe the spill prevention and control plan to include ways to reduce the chance of spills, stop the source of spills, contain and clean up spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 6.)
* Also, see EPA’s *Spill Prevention and Control Plan BMP Fact sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/spill\_control](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/spill_control)

|  |
| --- |
| A Spill Prevention Control and Countermeasures Plan currently exists for the facility. It will serve as this BMP. |

##

## 3.7 Any Additional BMPs

Instructions:

* Describe any additional BMPs that do not fit into the above categories. Indicate the problem they are intended to address.

No additional BMP’s are required.

## 3.8 Allowable Non-Stormwater Discharge Management

Instructions:

* Identify all allowable sources of non-stormwater discharges that are not identified. The allowable non-stormwater discharges identified might include the following (see your permit for an exact list):
* Waters used to wash vehicles where detergents are not used
* Water used to control dust
* Potable water including uncontaminated water line flushings
* Routine external building wash down that does not use detergents
* Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used
* Uncontaminated air conditioning or compressor condensate
* Uncontaminated ground water or spring water
* Foundation or footing drains where flows are not contaminated with process materials such as solvents
* Uncontaminated excavation dewatering
* Landscape irrigation
* Identify measures used to eliminate or reduce these discharges and the BMPs used to prevent them from becoming contaminated.
* For more information, see *SWPPP Guide*, Chapter 3.A.

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

Air Conditioning Condensate will be allowed to discharge.SECTION 4: SELECTING POST-CONSTRUCTION BMPs

Instructions:

* Describe all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed. Examples of post-construction BMPs include the following:
	+ Biofilters
	+ Detention/retention devices
	+ Earth dikes, drainage swales, and lined ditches
	+ Infiltration basins
	+ Porous pavement
	+ Other proprietary permanent structural BMPs
	+ Outlet protection/velocity dissipation devices
	+ Slope protection
	+ Vegetated strips and/or swales
* Identify any applicable federal, state, local, or tribal requirements for design or installation.
* Describe how low-impact designs or smart growth considerations have been incorporated into the design.
* For any structural BMPs, you should have design specifications and details and refer to them. Attach them as appendices to the SWPPP or within the text of the SWPPP.
* For more information on this topic, see your state’s stormwater manual.
* You might also want to consult one of the references listed in Appendix D of the *SWPPP Guide*.
* Visit the post-construction section of EPA’s Menu of BMPs at: [www.epa.gov/npes/menuofbmps](http://www.epa.gov/npes/menuofbmps)

This section is Not Applicable. The site is an active facility.

# SECTION 5: INSPECTIONS

## 5.1 Inspections

Instructions:

* Identify the individual(s) responsible for conducting inspections and describe their qualifications. Reference or attach the inspection form that will be used.
* Describe the frequency that inspections will occur at your site including any correlations to storm frequency and intensity.
* Note that inspection details for particular BMPs should be included in Sections 2 and 3.
* You should also document the repairs and maintenance that you undertake as a result of your inspections. These actions can be documented in the corrective action log described in Part 5.3 below.
* For more on this topic, see *SWPPP Guide*, Chapters 6 and 8.
* Also, see suggested inspection form in Appendix B of the *SWPPP Guide*.

|  |
| --- |
| 1. Inspection Personnel: Identify the person(s) who will be responsible for conducting inspections and describe their qualifications: |
| The inspector shall be designated by the Public Works Director |
| 2. Inspection Schedule and Procedures:  |
| Describe the inspection schedules and procedures you have developed for your site (include frequency of inspections for each BMP or group of BMPs, indicate when you will inspect, e.g., before/during/and after rain events, spot inspections): |
| Inspections shall occur monthly or more often if a rain of at least 1 inch occurs. |
| Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections: |
| The inspection report shall be given to the Public Works Director. The Public Works Director shall insure the resources are made available to correct the deficiencies found in the inspection or make a written report to the City Manager as to the reason the deficiencies can not be corrected. |
| Attach a copy of the inspection report you will use for your site. |
| See Appendix E for a copy of the inspection report.  |

## 5.2 Delegation of Authority

Instructions:

* Identify the individual(s) or specifically describe the position where the construction site operator has delegated authority for the purposes of signing inspection reports, certifications, or other information.
* Attach the delegation of authority form that will be used.
* For more on this topic, see *SWPPP Guide*, Chapter 7.

|  |
| --- |
| **Duly Authorized Representative(s) or Position(s):** |
| City of Bartlesville Operations Center  |
| Keith Henry  |
| Director of Public Works |
| 401 S Johnstone  |
| Bartlesville, OK 74003  |
| 918-338-4103  |
| Fax 918-338-4139 email kbhenry@cityofbartlesville.org  |
|  |
| Attach a copy of the signed delegation of authority form in Appendix K. |

## 5.3 Corrective Action Log

Instructions:

* Create here, or as an attachment, a corrective action log. This log should describe repair, replacement, and maintenance of BMPs undertaken as a result of the inspections and maintenance procedures described above. Actions related to the findings of inspections should reference the specific inspection report.
* This log should describe actions taken, date completed, and note the person that completed the work.

|  |
| --- |
| Corrective Action Log: |
| See Appendix F for the Correction Log |

# SECTION 6: RECORDKEEPING AND TRAINING

## 6.1 Recordkeeping

Instructions:

* The following is a list of records you should keep at your project site available for inspectors to review:
* Dates of grading, construction activity, and stabilization (which is covered in Sections 2 and 3)
* A copy of the construction general permit (attach)
* The signed and certified NOI form or permit application form (attach)
* A copy of the letter from EPA or/the state notifying you of their receipt of your complete NOI/application (attach)
* Inspection reports (attach)
* Records relating to endangered species and historic preservation (attach)
* Check your permit for additional details
* For more on this subject, see *SWPPP Guide*, Chapter 6.C.

|  |
| --- |
| Records will be retained for a minimum period of at least 3 years after the permit is terminated.  |
| Date(s) when major grading activities occur:  |
| Not Applicable to this Plan |
| Date(s) when construction activities temporarily or permanently cease on a portion of the site: |
| Not Applicable to this Plan |
| Date(s) when an area is either temporarily or permanently stabilized:  |
| Not Applicable to this Plan |

## 6.2 Log of Changes to the SWPPP

Instructions:

* Create a log here, or as an attachment, of changes and updates to the SWPPP. You should include additions of new BMPs, replacement of failed BMPs, significant changes in the activities or their timing on the project, changes in personnel, changes in inspection and maintenance procedures, updates to site maps, and so on.

|  |
| --- |
| Log of changes and updates to the SWPPP |
| See Appendix G for an SWPPP Amendment Log |

## 6.3 Training

Instructions:

* Training your staff and subcontractors is an effective BMP. As with the other steps you take to prevent stormwater problems at your site, you should document the training that you conduct for your staff, for those with specific stormwater responsibilities (e.g. installing, inspecting, and maintaining BMPs), and for subcontractors.
* Include dates, number of attendees, subjects covered, and length of training.
* For more on this subject, see *SWPPP Guide*, Chapter 8.

|  |
| --- |
| Individual(s) Responsible for Training:  |
| Director of Engineering or designeee |
| Describe Training Conducted: |
| * + - General stormwater and BMP awareness training for staff and subcontractors:
 |
| See MSIV files for detailed training log |
| * + - Detailed training for staff and subcontractors with specific stormwater responsibilities:
 |
| See MSIV files for detailed training log |

# SECTION 7: FINAL STABILIZATION

Instructions:

* Describe procedures for final stabilization. If you complete major construction activities on part of your site, you can document your final stabilization efforts for that portion of the site. Many permits will allow you to then discontinue inspection activities in these areas (be sure to check your permit for exact requirements). You can amend or add to this section as areas of your project are finally stabilized.
* Update your site plans to indicate areas that have achieved final stabilization.
* Note that dates for areas that have achieved final stabilization should be included in Section 6, Part 6.1 of this SWPPP.
* For more on this topic, see *SWPPP Guide*, Chapter 9.

Not Applicable to this plan

# SECTION 8: CERTIFICATION AND NOTIFICATION

Instructions:

* The SWPPP should be signed and certified by the construction operator(s). Attach a copy of the NOI and permit authorization letter received from EPA or the state in Appendix D.

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Daryl Worley |  Title: | Civil Project Engineer |
| Signature: |  |  Date: |  |

# SWPPP APPENDICES

Attach the following documentation to the SWPPP:

***Appendix A – General Location Map***

***Appendix B – Site Maps***

***Appendix C – Construction General Permit (Not Applicable to this Plan)***

***Appendix D – NOI and Acknowledgement Letter from EPA/State(Not Applicable to this Plan)***

***Appendix E – Inspection Reports***

***Appendix F – Corrective Action Log (or in Part 5.3)***

***Appendix G – SWPPP Amendment Log (or in Part 6.2)***

***Appendix H – Subcontractor Certifications/Agreements (Not Applicable to this Plan)***

***Appendix I – Grading and Stabilization Activities Log (or in Part 6.1) (Not Applicable to this Plan)***

***Appendix J – Training Log***

***Appendix K – Delegation of Authority***

***Appendix L – Additional Information (i.e., Endangered Species and Historic Preservation Documentation) No additional Information Required***

***Appendix M –Storm-water Organizational Chart***

Appendix E– Inspection Records

**Stormwater Industrial Routine Facility Inspection Report**

|  |
| --- |
| **General Information** |
| **Facility Name** | City of Bartlesville Operations Center |
| **NPDES Tracking No.** | Not Applicable |
| **Date of Inspection** |  | **Start/End Time** |  |
| **Inspector’s Name(s)** |  |
| **Inspector’s Title(s)** |  |
| **Inspector’s Contact Information** |  |
| **Inspector’s Qualifications** |  |
| **Weather Information** |
| **Weather at time of this inspection?**❑ Clear ❑Cloudy ❑Rain ❑ Sleet ❑ Fog ❑ Snow ❑ High Winds ❑ Other: Temperature:  |
| **Have any previously unidentified discharges of pollutants occurred since the last inspection?**  ❑Yes ❑No**If yes, describe:**  |
| **Are there any discharges occurring at the time of inspection? ( Dry Weather Field Screening) Is there a discharge from the facility** ❑Yes ❑No**If yes, describe:**  |

**Areas of Industrial Materials or Activities exposed to stormwater**

*Below are some general areas that should be assessed during routine inspections. Customize this list as needed for the specific types of industrial materials or activities at your facility.*

|  | **Area/Activity** | **Inspected?** | **Controls Adequate (appropriate, effective, and operating)?** | **Corrective Action Needed and Notes** |
| --- | --- | --- | --- | --- |
| 1 | **Material loading/unloading and storage areas** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 2 | **Equipment operations and maintenance areas** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 3 | **Fueling areas** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 4 | **Outdoor vehicle and equipment washing areas (Pre Wash Area)** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 5 | **Outdoor vehicle and equipment washing areas (Final Wash Area)** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 6 | **Waste handling and disposal areas** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 7 | **Aggregate Storage Piles** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 8 | **Non-stormwater/ illicit connections** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 9 | **Salt storage piles or pile containing salt**  | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 10 | **Dust generation and vehicle tracking** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 11 | **(Other)** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 12 | **(Other)** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |
| 13 | **(Other)** | ❑Yes ❑No ❑ N/A | ❑Yes ❑No |  |

**Non-Compliance**

|  |
| --- |
| Describe any incidents of non-compliance observed and not described above: |

**Additional Control Measures**

|  |
| --- |
| Describe any additional control measures needed to comply with the permit requirements: |

**Notes**

|  |
| --- |
| Use this space for any additional notes or observations from the inspection: |

**CERTIFICATION STATEMENT**

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

**Print name and title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Appendix F– Corrective Action Log

**Project Name:**

**SWPPP Contact**:

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

**Project Name:**

**SWPPP Contact:**

| **Amendment No.** | **Description of the Amendment** | **Date of Amendment**  | **Amendment Prepared by [Name(s) and Title]** |
| --- | --- | --- | --- |
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Appendix J– SWPPP Training Log

**Stormwater Pollution Prevention Training Log**

|  |
| --- |
| Project Name:  |
| Project Location: |
| Instructor’s Name(s): |
| Instructor’s Title(s): |

Course Location:  Date:

Course Length (hours):

Stormwater Training Topic: *(check as appropriate)*

|  |  |  |  |
| --- | --- | --- | --- |
| ❑ | **Erosion Control BMPs** | ❑ | **Emergency Procedures** |
|  |  |  |  |
| ❑ | **Sediment Control BMPs** | ❑ | **Good Housekeeping BMPs** |
|  |  |  |  |
| ❑ | **Non-Stormwater BMPs** |  |  |
|  |

Specific Training Objective:

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

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

Appendix K– Delegation of Authority Form

Delegation of Authority

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (name of person or position)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (company)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (address)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (city, state, zip)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (phone)

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

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

**Name:**

**Company:**

**Title:**

**Signature:**

**Date:**