City of Orem LTSWMP 2016-05-26

Long Term Storm Water Management Plan

EXHIBIT A

{For properties that are not a part of a residential or commercial subdivision, provide the parcel number and a legal description for the property.}

OR

{For properties that are a LOT in a commercial subdivision, provide the LOT and parcel number and refer to the newly recorded subdivision by the title it is recorded by in the Utah County Recorder's Office.}

OR

{For properties that are a private residential subdivision, refer to the newly recorded subdivision by the title it is recorded by in the Utah County Recorder's Office.}

Long Term Storm Water Maintenance Plan for:

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SECTION 1: PURPOSE AND RESPONSIBLITY SECTION 2: POLLUTANT SOURCES SECTION 3: DESCRIPTION OF SITE SYSTEMS, OPERATIONS AND POLLUTION CONTROLS SECTION 4: TRAINING SECTION 5: RECORDKEEPING SECTION 6 APPENDICES

SECTION 1: PURPOSE AND RESPONSIBILTY

As required by the Clean Water Act and resultant local regulations, including City of Orem's Municipal Separate Storm Sewer Systems (MS4) Permit, those who develop land are required to build and maintain systems to minimize contaminants in runoff that pollute waters of the State.

The purpose of this Long Term Storm Water Management Plan (LTSWMP) is to manage operations at ________ in order to minimize pollutants in both storm water and non-storm water runoff, and to minimize litter from blowing off the site. This LTSWMP describes the systems, operations and the minimum standard operating procedures (SOPs) necessary to accomplish this purpose. Any other activities or site operations at this property that contaminate water entering waters of the state must be prohibited, unless SOPs are written to manage those activities or operations, and this LTSWMP is amended to include those SOPs. A copy of this document is to be kept by the HOA, and the HOA is responsible for implementing and abiding by the SOPs listed within.

SECTION 2: POLLUTANTS AND SOURCES

Instructions:

- List site operations that can pollute the storm water.
- List site infrastructure that, when unmaintained, can pollute the storm water.
- Identify the pollutants typical with each site operation and site infrastructure.
- The list below is a guide only. Add and remove items as necessary that are applicable to your site.
- Special instruction language to Owner, staff and sub-contractors may need to be included in Section 2 to ensure specific operations are always conducted indoors in controlled conditions. Reference operations required by other regulatory agencies or operations that warrant special direction to ensure those operations do not get exposed to the environment such as waste that must be contained, collected indoors and transferred to hazardous wastes facilities. Typically this will be waste that is prohibited from the site's outside dumpster and operations that must be performed indoors. Include this instruction in paragraph form before or after the table.

Pollutant Sources	Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other pollutant	Notes
									\square	

POLLUTANTS AND SOURCES

SECTION 3: DESCRIPTION OF SITE SYSTEMS AND OPERATIONS AND THEIR CONTRIBUTION OR PREVENTION OF POLLUTANTS

Instructions:

Describe site infrastructure, structural controls and any low impact designs (LIDs) that are included to control and contain pollutants.
 Identify the limitations of the infrastructure at controlling and containing pollutants.

- Describe operations both business functions and maintenance that will generate pollutants.
- Briefly identify the need for SOPs that are necessary to compensate for the limitations of the site infrastructure and operations. Create SOPs that will govern the site functions, and maintenance operations.

[Describe, site infrastructure, and operations in relation to their contribution or prevention of pollutants generated on this site. The listed infrastructure is typical for most sites, however, the designer is required to add the unique site infrastructure needing controls and may also remove any of standard infrastructure listed that does not apply. Generally most sites will have the following infrastructure and how it is operated and maintained will affect runoff:]

[Describe the vegetative or xeriscape infrastructure and how its presence and maintenance impacts water quality. When the landscape design includes LID infrastructure, describe the benefits. Incorporating LID designs into landscape infrastructure that can reduce the level of controls necessary for SOPs.]

[Describe the storm water system including surface impoundment, conveyance system and structural water quality infrastructure and how its presence and maintenance impacts water quality. Incorporating LID and structural water quality device designs into storm water infrastructure can reduce the level of controls necessary for SOPs.]

[Describe the necessary snow and ice operation and how its necessity and maintenance impacts water quality. Incorporating LID designs into snow and ice removal infrastructure can reduce the level of controls necessary for SOPs.]

[Describe any outside storage infrastructure or operations and how its necessity and maintenance impacts water quality. Incorporating LID designs into equipment storage infrastructure can reduce the level of controls necessary for SOPs.]

[Describe infrastructure limitations at controlling and containing spills. Incorporating LID design into the infrastructure intended to minimize spills reaching waterways can reduce the level of controls necessary for SOPs.]

SECTION 4: TRAINING

The owners of this property shall ensure that the property operators know and understand their responsibility to train subcontractors that their employees and subcontractors know and understand the SOPs that are necessary to effectively maintain the property, in order to contain pollutants associated with operations related to the site. This training record is kept in Training Logs.

SECTION 5: RECORDKEEPING AND SITE INSPECTIONS

The owners of the property shall require a records to be kept. Operation activities in accordance with SOPs written specifically for this property. Mail a copy of the record to the Orem City Storm Water Section annually. (Attention to: Storm Water Project Manager 1450 W 550 N Orem UT, 84057 or E-mail a copy to swmp@orem.org)

SECTION 6: APPENDICES

Instructions:

— Include all drawings, details, SOPs and other supporting information referenced in Sections 1-5, the information specified by the Appendix titles and any other specifics necessary to complete this Long Term Storm Water Management Plan.

- Ensure the LTSWMP is updated with any site plan as-built differences prior to releasing the project and Notice of Intent (NOI)

Section 1. Appendix A- Site Drawings and Details Section 2. SOPs Section 3. Recordkeeping Documents

APPENDIX A - SITE MAP, BMP LOCATIONS

[Insert Site Drawings or Details]

APPENDIX A - SITE FACILITY DETAILS

[Insert Site Drawings or Details]

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[Insert Site Drawings or Details]

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[Insert Site Drawings or Details]

APPENDIX A - SITE FACILITY DETAILS

[Insert Site Drawings or Details]

	Long Term Storm Water Management Pl		
	STANDARD OPERATING PROCEDURE	SOP NUMBER: ISSUE DATE:	
Click to add logo	PROGRAM:		
LTSWMP REQUIREMEN	IT:	TARGETED POLLUTANTS: Nutrients Heavy Metals Toxic Materials Organics Oil & Grease	
GENERAL:			

	Long Term Storm Water Management Pla			
Click to add logo	STANDARD OPERATING PROCEDURE PROGRAM:	SOP NUMBER:	ISSUE DATE:	
LTSWMP REQUIREMEN	IT:	TARGETED POL Nutrients Heavy Metals Toxic Materials Organics Oil & Grease	LUTANTS:	
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Click to add logo	PROGRAM:		
	Snow, Salt and Ice Removal Management		
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	Long T	Ferm Storm Water Ma	nagement Pl
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SMP REQUIREMENT:		TARGETED PC Nutrients Heavy Metals Toxic Materials Organics Oil & Grease	
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	Long T	Ferm Storm Water Ma	nagement Pla
	STANDARD OPERATING PROCEDURE	SOP NUMBER:	ISSUE DATE:
Click to add logo	PROGRAM:		_
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SMP REQUIREMENT:		TARGETED PO Nutrients Heavy Metals Toxic Materials Organics Oil & Grease	OLLUTANTS:
GENERAL:			

Recorded Documents

Recordkeeping forms following this page]

INSPECTION, MAINTENANCE AND CORRECTION REPORT

(THIS REPORT MUST HAVE A METHOD OF IDENTIFYING PROBLEMS AND SHOW THE MAINTENANCE RECORDS FOR EACH OPERATION OR SYSTEM THAT HAS A POTENTIAL TO POLLUTE THE ENVIRONMENT. YOU MAY USE THIS TEMPLATE OR USE ONE OF YOUR OWN BUT IT MUST INCORPORATE THE ABOVE MINIMUM REQUIREMENTS. SUBMIT THIS REPORT TO THE CITY ANNUALLY.) THE CITY AND EPA EXPECTS IS THAT PROPERTY OWNERS EFFECTIVELY CONTAIN POLLUNTANTS AND TO FIX PROBLEMS

WHEN THEY ARE DISCOVERED

City of Orem LTSWMP 2016-05-26

Inspector Name:			anagement Facilities
mopeolor Mame	Facility Name & Addres	S:	Inspection Date:
Frequency of inspection Weekly	Monthly Ann	ually Quarterly	Storm Event
	Storm w	ater system	
	Item Inspected	Maintenance Needed?	Observations and Remarks
1. Remove sediment from catch basins	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
2. Cleaning storm drain pipes	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
3. Maintenance of drainage swales	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
4. Remove sediment from manholes	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
5. Remove sediment from sumps	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
6. Repair oil/water separator	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
7. Repair sand filters	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
	Parking lot and	roads maintenance	
	Item Inspected	Maintenance Needed?	Observations and Remarks
1. Sweeping of parking lot	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
2. Sweeping of streets	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
3. Cleaning of garbage enclosure	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
4. Cleaning of non-hazardous spills	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
5. Managing fertilizer use	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
6. Managing pesticide use	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
 Management of landscaping wastes (grass clippings, leaves, etc.) 	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
	Deten	tion Facilities	
	Item Inspected	Maintenance Needed?	Observations and Remarks
1. Landscaping maintenance	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
2. Remove sedimentation	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
3. Remove debris	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
4. Repair side slopes	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
5. Repair rip-rap protection	Yes 🗌 No 🗌	Yes 🗌 No 🗌	
6. Repair control structure	Yes 🗌 No 🗌	Yes 🔄 No 🗌	
7. Cleaning of outfall	Yes 🗌 No 🗌	Yes 🔄 No 🗌	
8. Removal of floatable debris	Yes 🗌 No 🗌	Yes 🔄 No 🗌	
9. Maintenance of inlets	Yes 🗌 No 🗌	Yes 🔄 No 🔄	
		Yes 🗌 No 🗍	

Inspector Signature:_____

Date:_____

City of Orem LTSWMP 2016-05-26

SOP # Trainer Employees Trained / Service Crews, Contractors Informed of SOPs Da		(THE EMPLOYEES OR CONTRACTORS WHO ARE INVOLVED IN OPERATIONS THAT CAN AFFECT THE QUALITY OF RUNOFF FROM THIS PROPERTY MUST KNOW AND UNDERSTAND THE SOPS REQUIRED FOR THIS PROPERTY. YOU MAY ALSO USE YOUR OWN FORM.)					
SOP # Trainer Employees Trained / Service Crews, Contractors Informed of SOPs Da			Annual SOP Training				
	SOP #	Trainer	Employees Trained / Service Crews, Contractors Informed of SOPs	Date			
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