WEST VALLEY CITY

PUBLIC WORKS DEPARTMENT

STORM WATER MANAGEMENT PLAN

2025-2026

Effective Date: August 24, 2025
Public Works Director Approval:

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0.1 Abbreviations

APWA	American Public Works Association
BMP	Best Management Practices
DEQ Utah	Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
IDDE	Illicit Discharge and Detection Elimination
GIS	Geographic Information System
LID	Low Impact Development
MCM	Minimum Control Measure
MPM	Minimum Performance Measure
MS4	Municipal Separate Storm Sewer System
NOV	Notice of Violation
O&M	Operations & Maintenance
SLV	Salt Lake Valley
SOP	Standard Operating Procedure
SSO	Sanitary Sewer Overflow
SWMP	Storm Water Management Program/Plan
SWPPP	Storm Water Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UPDES	Utah Pollutant Discharge Elimination System
WVCFD	West Valley City Fire Department
WVCPD	West Valley City Police Department

0.2 Executive Summary

West Valley City has historically been authorized to discharge municipal storm water under the Utah Pollutant Discharge Elimination System (UPDES) as a Phase II Co-Permittee of the Jordan Valley Municipalities (UPDES Permit No. UTS000001). And has operated under the UTS000001 permit until the term ending in 2025

This Storm Water Management Plan (SWMP) document has been modified to conform to the General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s). UPDES PERMIT NUMBER UTR090000, which expires at midnight, May 11th, 2026.

The storm water program is overseen and administered by the West Valley City Public Works Department with contributions from Parks and Recreation and the Fire Department. Combined efforts of all staff members involved in the program collectively address permit requirements. Funding is provided through the West Valley City Storm Water Utility.

Good faith efforts have been and are made by the City to establish proper procedures and BMP's *(best management practices)* to protect water quality and fulfill all requirements set forth by the permit. As a living document, regular evaluation and updates will be completed as necessary to ensure compliance.

2.3 Storm Water Management Program Plan Description

2.3.1 Renewal Co-Permittee

West Valley City is a renewal co-permittee and is required to meet the requirements of Part 2.3 of the Permit.

2.3.2 Revised SWMP Document

The updated SWMP will be submitted to the Director of the Utah Division of Water Quality within 180 days of the effective date of the permit.

2.3.2.1 Permit Number

UTR090000

2.3.2.2 MS4 Location

West Valley City is in Salt Lake County, southwest of Salt Lake City. Its general location is west of the Jordan River, south of SR-201, east of 7200 West and north of Kearns and Taylorsville.

Refer to Appendix A for a map of West Valley City.

2.3.2.3 Overall Water Quality Concerns, Priorities and Measurable Goals

This document is created as a working plan to address overall water quality concerns in West Valley City. Overall water quality concerns include the protection of receiving waters. Priorities have been set to address water quality concerns, and measurable goals are defined in each minimum control measure.

2.3.2.4 Program Elements

This document, including the appendices, describes the program elements of the six minimum control measures addressed in the permit.

The main description of the Storm Water Management Plan is included within this document, and supporting documentation will be found within the appendices, Sharepoint, and Cityworks, a software that encompasses service requests, work order management, resource management, reporting, maps, and projects. This SWMP document is structured to mirror the format of the Permit.

2.3.2.5 Ordinance Changes

Some elements of this SWMP have been previously implemented, and others are new components being added to address changes to the MS4 permit.

A description of ordinance and SWMP changes are addressed in the respective sections of this plan.

2.3.2.6 Meeting Permit Requirements

For each minimum control measure, a description of how the City will meet the permit requirements and a list of measurable goals is found in section 4.2.1-4.2.7 of this SWMP document. Each section

includes a description of existing, on-going plan elements as well as new elements that will be implemented to comply with permit requirements.

2.3.2.7 Joint Submittals

West Valley City prepares and is solely responsible for the management plan and requirements within and does not rely on outside entities for the implementation of this SWMP, other than collaboration with the Salt Lake County Storm Water Coalition.

2.3.2.8 Certifications and Signatures Required

All signatures and certifications for the SWMP will be in accordance with part 6.8.

2.3.2.9 Measurable Goals

This SWMP includes specific details for compliance with each of the six minimum control measures specified in section 4.2 of the Permit.

3.1 Impaired Waters

3.1.1.1 Discharges into 303(d) Water Bodies

A portion of the storm water from the West Valley City storm water system discharges into the Jordan River which is considered an impaired water body along the following segments:

AU ID	AU NAME	WATER TYPE	SIZE	LOCATION DESCRIPTION
UT16020204-004_00	Jordan River –4	RIVER	6.203 Miles	Jordan River from 2100 South to the confluence with Little Cottonwood Creek
Cause	**Cycle First Listed**	**TMDL Status**	**Use**	**Source**
Benthie-Macroinvertabrate Bioassessments	2010	Low Priority	Warm Water Aquatic Life	-Source Unknown -Natural Sources -Urban Runoff/Storm Sewers
Total Dissolved Solids	2008	High Priority	Agricultural	

AU ID	AU NAME	WATER TYPE	SIZE	LOCATION DESCRIPTION
UT16020204-005_00	Jordan River-5	RIVER	4.698 Miles	Jordan River from the confluence with Little Cottonwood Creek to 7800 South
Cause	**Cycle First Listed**	**TMDL Status**	**Use**	**Source**
Escherichia Coli	2006	Medium Priority	Secondary Recreation	-Agriculture -Natural Resources
Temperature Water	2006	High Priority	Cold Water Aquatic Life	-Urban Runoff Storm Sources -Source Unknown
Total Dissolved Solids	2006	High Priority	Agricultural	

3.1.1.2 TMDL Requirements

Phase I of the TMDL study on the Jordan River was approved by the EPA on June 5, 2013. In the study, dissolved oxygen was identified as the greatest impairment for the Jordan River. Organic matter contributes to the dissolved oxygen levels and will continue to be the focal point of future phases of the TMDL strategy, which have, at this point, been delayed. As specific requirements are established to improve the dissolved oxygen levels, appropriate BMPs and capital improvements will be deployed to meet those requirements and the West Valley City SWMP will be updated accordingly.

3.1.2 Pollutant Control

As new requirements are imposed from future phases of the Jordan River TMDL to improve dissolved oxygen levels, this SWMP document will be modified accordingly in response.

3.1.3 New or Previously Approved Discharge Determined as Pollutant

In the case that a previously authorized discharge under this permit is later determined to cause or have the reasonable potential to cause or contribute to the violation of an applicable water quality

standard, West Valley City will take all necessary action required by the Director of Utah Division of Water Quality . Any actions will be documented; any new procedure will be amended to this SWMP.

3.2 Jordan River Watershed Wide E.coli TMDL

3.2.2 TMDL Compliance Plan

3.2.2.1 Potential Sources of E.coli

	Residential	Commercial	Wildlife	Transient
Septic	x	x		
Wetland Parks			x	
Decker Lake			x	
Homeless Camps				x
Public Parks			x	

3.2.2.1.1 Contribution Through Collaboration

West Valley City is a member of the Salt Lake County Storm Water Coalition, which is active in evaluation, identification, and targeting sources, as well as providing outreach, that addresses E.coli.

3.2.2.2 Map of Potential Sources of E.coli

Potential sources of E.coli have been inventoried and mapped. This can be found in Appendix A or at this link (ArcGIS Enterprise - Potential E. Coli Sources (wvc-ut.gov)).

3.2.2.2.1 Prioritized Reduction Plan

Structural and non-structural BMP's are included in the City's Stormwater Management Plan to prioritize reduction activities to address the areas and sources identified in 3.2.2.2. This plan includes working closely with the Salt Lake County Stormwater Coalition, hanging signs along the river to remind residents not to feed the wildlife, and actively patrolling areas that have a larger draw for transients. The Parks Department is actively working on increasing the Pet Waste Stations available at each park. The Public Works Right-of Way Clean-up crew and Homeless Taskforce will also be vigilant in making sure that high priority areas are actively inspected.

3.2.2.2.2 E.coli High Priority Inspections

Areas of potential sources of E.coli are mapped as High Priority areas and added to the High Priority Inspection rotation as outlined in part 4.2.3.3.1.

3.2.2.2.3 E.coli High Priority Maintenance Schedule

The City uses Cityworks to create scheduled maintenance work orders. This includes a schedule for street sweeping, storm drain maintenance inspections, cleaning, and repairs in the areas of potential

sources of E.coli. As with priority areas outlined in part 4.2.6.6.2, The SOPs for street sweeping(including some parking lots) and vactor storm drain system maintenance will include the evaluation of E.coli potential sources within the schedule for maintenance.

3.2.2.4 E.coli Reduction Activities within SOP's

The City has completed an evaluation of Standard Operating Procedures to target the reduction of E.coli discharge. Considerations added to the maintenance schedule are:

- Roads and parking lots: Surface cleaning and controlling litter
  - Consideration: Schedule of maintenance (required per permit part 3.2.2.2.3.), target visible E. coli source areas
- Parks and open space: Mowing/Trimming/Planting
  - Considerations: Schedule of maintenance, removal of E. coli sources prior to mowing/trimming/planting, including homeless camps.
- Storm water collection and conveyance system: Inspection and Cleaning of Stormwater Conveyance Structures, Controlling Illicit Connections and Discharges, Controlling Illegal Dumping
  - Considerations: Schedule of maintenance (required per permit part 3.2.2.2.3.), increase inspection of priority areas likely to have an illicit discharge (required per permit part 3.2.2.2.2.), target E. coli source areas, prioritize schedule based on historical flood areas.
- Material storage areas: Controlling Litter, Controlling Illegal Dumping
  - Considerations: Schedule of inspections of storage areas to ensure adequate containment (to avoid leaking or broken waste containment), schedule of emptying of waste collection areas (to avoid overflow or uncontained waste), etc.

3.2.2.5 LID Controls That Target E.coli

All LID BMPs are rated for the removal of E. coli and other Bacteria as shown in Table 6 of the guidance document *Guide to Low Impact Development within Utah.* Specific BMPs like those contained in Appendix C of the guidance document will be promoted as LID controls.

3.2.2.6 E.coli Reduction with Retrofit Planning

West Valley City has added the potential of E.coli reduction as a criterion for ranking when evaluating a retrofit plan.

3.2.3 Annual TMDL Compliance Reporting

West Valley City will submit the required TMDL Compliance Report on or before October 1 of each year of the permit term using the required form from the DEQ website.

3.3 Nitrogen and Phosphorus Reduction

3.3.1 Nitrogen and Phosphorus Impacts

West Valley City will work to reduce nitrogen and phosphorus discharges from the community through education. Part 4.2.1.2 of this document addresses employee training and public education outreach efforts to reduce the discharge of these nutrients.

3.3.1.1 Storm Water Coalition

West Valley City is a member of the Salt Lake County Storm Water Coalition and uses this collaboration to provide outreach that will minimize the discharge of nitrogen and phosphorous.

3.3.1.2 – Nitrogen and Phosphorous Sources

Potential sources of nutrient discharge into storm water from the following:

	Residential	Industrial	Agricultural	Commercial
Animal/Pet Waste	X		X	X
Fertilizer	X	X	X	X
Soaps and Detergents	X	X		X
Other Industrial Sources		X		

The SWMP will address how these pollutant sources will be targeted to minimize discharge to the MS4.

3.3.1.3 Reductions in Nitrogen and Phosphorus Through Education

Targeted source prioritization will be addressed in Part 4.2.1 of this SWMP document.

4.0 Storm Water Management Program

4.1.1 Storm Water Management Program

West Valley City developed, implements, updates, and enforces this SWMP to reduce the discharge of pollutants from the MS4 through the six minimum control measures, addressed in Part 4.2 of this SWMP document.

4.1.1.1 Implementation Schedule

As detailed in the permit and this SWMP, the required schedules will be met to implement the SWMP. West Valley City is a Renewal Co-Permittee and has fully implemented requirements of the previous permit term, and is implementing new requirements of the new permit, as detailed in this document.

4.1.2 Process to Evaluate Implementation

Program evaluation is addressed in Part 4.5 in this SWMP document.

4.1.2.1 Implementation Tracking

The number of inspections performed, enforcement actions, and types of public education activities implemented are tracked and available upon request. The details of information tracked are outlined within each section of this SWMP document.

4.1.2.2 Resources for SWMP Implementation

The resources necessary to meet all requirements of this permit are provided through the West Valley City Storm Water Utility. A summary of the Storm Water Utility resources is included within each annual report.

4.1.3 BMP's Implemented

BMP's implemented for each minimum control measure are described in this SWMP.

4.1.3.1 Measurable Goals

Measurable goals for each of the BMPs, including timeframes for implementation and frequency of actions, are included in Sections 4.2.1-4.2.6.

4.1.3.2 Responsible Party for Implementation

The specific person or position responsible for implementation of the BMP will be documented in the SWMP or the SOP.

4.1.3.3 Implementation of SWMP

This document includes all roles and responsibilities, documentation, directives, contracts, and/or agreements that support the implementation of the management plan.

4.1.3.4 Good Faith Effort

A good faith effort is being made to comply with the terms of the MS4 permit.

4.2 Minimum Control Measures

The six minimum control measures addressed under the Permit are as follows:

- Public Education and Outreach on Storm Water Impacts
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination (IDDE)
- Construction Site Storm Water Runoff Control
- Long-Term Storm Water Management in New Development and Redevelopment
- Pollution Prevention and Good Housekeeping for Municipal Operations

This updated SWMP continues programs implemented in previous permit cycles, and addresses new requirements imposed within this new permit cycle.

4.2.1 Public Education and Outreach on Storm Water Impacts

The West Valley City storm water public education program is designed to promote awareness of problems in storm water quality and to encourage changes in behavior that will improve water quality. The program targets the following audience groups and their specific land use: the general public, commercial and institutional facilities, developers and contractors, utility companies and MS4 employees. The education program elements include the education of targeted audiences, support of media ads produced by the Salt Lake County Stormwater Coalition, employee training and training the construction industry.

4.2.1.1 Target Specific Pollutants and Sources

Targeted pollutants for each of the four audience groups described in the permit requirements are as follows:

Table 1 Targeted Pollutants for Audience Groups

Audience Group (source)	Sediments	Nitrogen and Phosphorous (Nutrients)	Trash & Debris	Oil & Grease	Herbicides & Pesticides
Residents	X	X	X	X	X
Institutions, industrial and commercial Facilities	X	X	X	X	X
Developers and contractors (construction)	X	X	X	X	
MS4 owned or operated facilities	X	X	X	X	X
X = Targeted potential pollutant may be expected from the audience group					

Education efforts for each audience group focus on that group's targeted pollutants based upon their land use. Messages promote good behavior and educate individuals how to avoid, minimize, reduce, and/or eliminate the adverse impacts of storm water discharges.

4.2.1.2 General Public Education and Outreach Program

When addressing the general public, the message delivered is specific to their land use. The message addresses proper lawn care, disposal of animal waste, automotive oil cleanup and maintenance, proper car washing, and the importance of liter cleanup.

West Valley city reaches the **general public** through the following:

- Water Quality Fair.
    - This event teaches middle school age students the importance of water quality with multiple displays created by members of the Salt Lake County Storm Water Coalition. The event is prefaced with worksheets the teacher can use to prepare the students. These events will be held in-person or virtually at the discretion of the coalition.
    - West Valley City considers this event highly effective and, when held in-person, offers to pay a portion of the bus fees for the schools that attend from West Valley City.

- Community events such as Springfest, Westfest, and National Night Out hosted in West Valley City.
    - West Valley City hosts a booth educating the attendees of the community events via a game or visual presentation prepared with the message referenced in this section. The general public are free to ask questions, take home literature and paraphernalia for continued education.
- Salt Lake County Storm Water Coalition media ads
    - West Valley City is member of the Salt Lake County Stormwater Coalition. The coalition produces media ads on radio, television, and the internet, including a user-friendly website and social media platforms. Each year the coalition focuses on the message referenced in this section in relatable ads. These ads can be found at:
        - www.stormwatercoalition.org
        - Instagram at @wealllivedownstream
        - Facebook at We All Live Downstream
        - Podcast We All Live Downstream: A Clean Water Action Podcast
- West Valley City Public Relations
    - The West Valley City Public Relations sends monthly inserts to residents promoting different events through the City. We will utilize three to four of these inserts to promote good behavior to prevent storm water pollution. These ads will address one of the targeted pollutants discussed in this section. Copies of these will be added to Appendix B as they are run. These campaigns are part of the West Valley City IDDE education program required in Part 4.2.3.7 of the permit
    - Educational trifolds promoting the behaviors discussed are available at the Public Relations Department offices and distributed at city-sponsored events, as well as neighborhood watch meetings (when invited).

4.2.1.3 Institutional, Industrial and Commercial Facilities Education and Outreach Program

Commercial, industrial, and institutional land uses throughout the City have very diverse operations. The higher risk pollutants include food grease, petroleum products, lawn pollutants, and general waste from dumpsters and/or parking lots, including use of salt or other deicing materials. The educational efforts West Valley City implements for this measure address these more prevalent pollutants and provide opportunities to educate businesses about IDDE hazards as required in Part 4.2.3.7

West Valley City reaches **institutional, industrial, and commercial facilities** in the following ways:

- New Business License permit
    - West Valley City has created a training video that all new business license applicants must view prior to issuance of the license. The video has been updated to offer on-going additional training to those businesses.
- Storm water inspections every two years for all businesses with a West Valley City Long Term Storm Water Management Permit
    - This provides an opportunity for education to institutional, industrial, and commercial land users. Inspectors discuss with the business any observed pollutants or hazards and deficiencies affecting storm water quality that were encountered during the inspection
- Annual storm water quality protection information distribution to businesses once during the permit term.
    - Information will be distributed with targeted information to specific businesses.

4.2.1.4 Developers and Contractors (construction)Education Program

Education regarding the development of storm water pollution prevention plans (SWPPP) and BMP's for reducing adverse impacts from storm water runoff from development sites is vital through the entire development process.

West Valley City educates and provides ongoing support to **developers and contractors** in the following ways:

- Development review meeting
  - SWPPP requirements are discussed during development review meeting for each potential site. It is determined if a SWPPP is needed based on disturbed area or if the development meets the standard of a larger common plan of development. With new residential developments we also discuss whether or not the development will have one developer/builder, or if the lots will be sold to different builders (common plan).
- SWPPP and Pre-construction meeting
  - Contractors and their designated SWPPP inspectors attend a Preconstruction SWPPP meeting with representation from the engineering division. During this meeting the SWPPP is reviewed and site specific BMP's are discussed. A copy of the meeting agenda is included in Appendix D.
- Storm Water Construction Permit Application Process
  - Development review staff review the SWPPP to ensure proper compliance with the General Construction Permit in order to reduce adverse impacts from storm water runoff for development sites Education on the importance of on-site BMP's takes place during the permit application process.

This educational measure is part of the IDDE education program as required in Part 4.2.3.7 and 4.2.3.11. Additional requirements are set forth in Part 4.2.4.5 to educate the construction industry.

4.2.1.5 MS4 Employee LID and Green Infrastructure Education Program

West Valley City prioritizes the training of staff engineers, development review staff and land use planners on practices involving Low Impact Development, green infrastructure practices, and requirements involving post-construction control and BMP's.

Staff training is conducted in the following ways:

- Engineering staff weekly coordination and training meeting
  - Each Thursday of the week, the West Valley City Engineering staff meet to coordinate projects and permits throughout the city. Every other month a staff member is assigned to offer training on one of the many topics discussed in the management plan, including LID, green infrastructure, and post-construction control. These trainings are saved on the shared site for continual accessibility.
- APWA Storm Water Conference attendance
  - Plan review staff members from Public Works attend the annual storm water conference, including LID and green infrastructure presentations. Utah APWA trainings offer relevant local application of Utah MS4 permit implementations.
- USWAC, DEQ, and County Coalition Presentations.
  - Certain members of the Public Works team attend the monthly meetings hosted by the USWAC and Salt Lake County Coalition. The information is discussed in in the

monthly department storm water coordination meetings and trainings are created if new information is presented.

4.2.1.6 LID Specific training for all West Valley City employees is documented in section 4.2.6.10 of this document. The city also looks for training opportunities for plan review staff to expand their education about LID measures from national conferences at least once per permit term. Additional LID training for Planning and Zoning Staff is conducted by the Engineering Division

4.2.1.7 Education Program Evaluation

West Valley City uses multiple evaluation processes to evaluate progress on public education efforts on storm water quality issues.

- The Salt Lake County Coalition conducted a survey sampling opinion from all cities in the county.
    - As part of the public outreach efforts to businesses, business owners were sampled and surveyed to determine a baseline of understanding about proper storm water management practices.
- As discussed in Part 4.2.1.2 of this SWMP, key personnel meet monthly to assess the Storm Water Management Plan. Evaluations of employee training (for those whose regular job duties affect storm water quality) are discussed at these meetings to determine if employee training is adequate, if the education provided is being implemented and what changes, if any, can be made to improve MS4 employee training for those involved with storm water quality.

4.2.1.8 BMP Selection Rationale

BMP selection rationale for the **general public** has been explained in depth in 4.2.1.2.

BMP selection for **institutions, industrial and commercial facilities** has been explained in depth in 4.2.1.3.

BMP selection for the **construction industry** has been explained in depth in 4.2.1.4

BMP selection for **educating MS4 Employees** has been explained in 4.2.1.5.

Measurable Goals - Public Education and Outreach Program

Measurable goals and BMPs to fulfill this minimum control measure are listed below.

Public Education and Outreach Program Measurable Goals					
-	Activity/BMP	Measurable Goal	Description	Permit Section	Execution Date
PEO-1	Water Quality Fair	Provide information to schools about the Water Quality Fair	West Valley City considers this event highly effective and, when held in-person, offers to pay a portion of the bus fees for the schools that attend from West Valley City.	4.2.1.2	Ongoing
PEO-2	Social Media		Post ads at least four times per year on City's social media outlets; Facebook, Instagram, Nextdoor	4.2.1.2	Ongoing
PEO-3	Storm Water Education on Website	Upload all education ads distributed in the Public Relations monthly Mailers and/or social media to the West Valley City Website	Add storm water educational material to the West Valley City website.	4.2.1.2	Ongoing
PEO-4	Host a Booth at Community Sponsored Events	Host one booth annually	Host a booth providing education to the public on storm water BMP's	4.2.1.2	Ongoing
PEO-5	Support the Salt Lake County Storm Water Coalition and their media ad campaigns	Attend 75% of monthly meetings and continue financial support of the Coalition	Continue support and participation of the SLCSC through financial support and involvement in monthly SLCSC meetings. Continue use of the public education program provided by the SLCSC.	4.2.1.2	Ongoing
PEO-6	Implement Business Education through Business Licensing	100% business licenses issued after businesses complete training	Require all new business license applicants to complete storm water pollution prevention education.	4.2.1.3	Ongoing

PEO-7	SWPPP Business Training	Send literature to businesses in WVC	Send storm water training brochures to businesses with pollution prevention information pertinent to industry	4.2.1.3	once a term
PEO-8	SWPPP Educational Materials	Provide materials for 100% of development and redevelopment applications	All new development/redevelopment applicants will be provided educational material discussing minimum storm water quality protection standards.	4.2.1.4	Ongoing
PEO-9	Employee Training - Public Works Engineering Staff	Train on a SW Topic Six Times Per Year	Designate six trainings be performed in the Weekly Engineering Staff Coordination meeting to BMP's, LID, and Long-Term Management	4.2.1.5	Ongoing
PEO-10	MS4 Employee Training	Train 100% of staff	Continue annual training about BMP's related to job responsibilities that protect storm water quality	4.2.1.5	Ongoing

4.2.2 Public Involvement/Participation

West Valley City promotes public involvement and participation through community service projects, open houses about targeted projects affecting storm water quality and participation in local watershed councils.

Opportunities for public involvement include:

- Public notices and comment period about updates to the SWMP
- Community group service projects
- Participation in the Salt Lake County Stormwater Coalition which generally has representation at local watershed councils and water fairs.

Various community group service projects which stencil storm drains and distribute educational literature are completed annually in West Valley City. The stencil includes the published hotline for community members to report illicit discharges. Community group service projects are organized on a regular basis to clean detention basins and other areas within West Valley City to prevent non-storm water discharges.

4.2.2.1 Public Input during SWMP Writing Process

Public comments are solicited on the city's website where the public may view the SWMP documents and provide feedback during the SWMP writing process.

4.2.2.2 SWMP Availability to the General Public

The SWMP is available online and at the West Valley City Public Works Engineering office.

4.2.2.3 Adopted SWMP Accessibility for the Life of the Permit

A current version of the SWMP is available for the general public online and at the West Valley City Public Works Engineering office for the life of the permit.

4.2.2.4 Public Notice Requirements

West Valley City will comply with all State and Local public notice requirements.

Measurable Goals - Public Involvement/Participation Program

Measurable goals and BMPs to fulfill this minimum control measure are listed below.

Public Involvement/Participation Program Measurable Goals					
	Activity/BMP	Measurable Goal	Description	Permit Section	Execution Date
PIP-1	Community Group Service Projects	Encourage community service projects annually by posting on multiple service outlets, and advertising with Public Relations.	Provide service opportunities for community groups to clean debris and trash in detention basin areas or other water bodies. Provide stenciling materials for storm drains and distribute educational literature to nearby residences and businesses for service projects.	4.2.2	Ongoing
PIP-2	Public Notice for Comment on Updated SWMP	Post updates to the SWMP online and open it to public comment	Provide copies of the SWMP to the general public for review and comment online and at the West Valley City Public Works Engineering Office.	4.2.2.1	Summer 2020
PIP-3	Current SWMP Publicly Available	Maintain updated SWMP online	Provide access to a current copy of the SWMP online for public comment and at the West Valley City Public Works Engineering office.	4.2.2.3	Ongoing

4.2.3 Illicit Discharge Detection and Elimination (IDDE)

West Valley City is active in the detection and elimination of illicit discharges, as described below.

4.2.3.1 Storm Water System Map

West Valley City actively maintains a GIS inventory of outfalls, pipes, structures, or other storm water system elements located within city jurisdiction. Updates to the inventory are made as the storm drain system is modified. The storm water system map is available at the following link. (http://www.wvc-ut.gov/1591/Maps)

4.2.3.2 Storm Water Management Ordinance

Non-storm water discharges are prohibited through West Valley City Code, Section 18-7-101. When such discharges occur, West Valley City storm water enforcement personnel are authorized to enforce city ordinances to stop a non-storm water discharge through escalating enforcement procedures.

Copies of Enforcement Procedure SOPs are included in Appendix G.

West Valley City does not operate a sanitary sewer system. There are four improvement districts which operate the sanitary sewer systems within the city's jurisdictional boundaries:

- Granger-Hunter Improvement District
- Kearns Improvement District
- Magna Water Company
- Taylorsville-Bennion Improvement District

If a sanitary sewer overflow (SSO) occurs, it is reported to the district listed above which has jurisdiction at the location of the overflow and to the Division.

4.2.3.2.1 Legal Authority to Enforce Non-Storm Water Discharges

Enforcement against non-storm water discharges is authorized through West Valley City Code, Section 10-2-102. Personnel authorized to enforce ordinances from the Public Works Engineering Division are listed in a memo found in Appendix C and approved by the West Valley City Attorney's Office.

4.2.3.3 IDDE Detection and Mitigation Plan

The detection and mitigation plan for spills, illicit connections, sanitary sewer overflows (SSO's) and illegal dumping are described herein. The city relies on trained city employees who are out in the public regularly (i.e. street sweepers, storm drain maintenance operators, storm water inspectors) and public reported discharges to detect spills and illegal discharges. The regular dry weather screening of outfalls in the City during the permit term are intended to detect these spills and discharges. This includes 12 "high priority" outfalls and 10 High Priority IDDE areas, which will be screened and assessed at least once through the term of the permit.

Another part of the IDDE program includes using a storm drain video camera to record conditions inside storm drain pipes. This method helps to identify any illicit connections and require proper mitigation in order to prevent illegal discharges from entering into the storm drain system.

4.2.3.3.1 "High Priority" Area List

Members from various divisions of West Valley City with specific duties that affect storm water quality met in the Spring of 2020 to re-assess the locations of “high priority” areas and outfalls within the West Valley City storm water system. Procedures went as follows:

1. Collectively, identify on the map in the GIS software areas where businesses with higher pollutant risks, including potential E.coli sources, are located (i.e. salvage yards, trucking facilities, businesses with high use of chemicals or other pollutants which may get into the storm water system, areas with a history of illicit discharges)
2. Mark on a digital GIS map the High Priority areas
3. Establish the “High Priority” area map. This GIS map is available to view at the following link, or in the WVC Engineering offices

https://wvc-ut.maps.arcgis.com/apps/opsdashboard/index.html#/178e155cfb2b4010b257da10fc24608d

These areas were selected based on industrial and commercial uses, history of past illicit discharges and areas with older infrastructure. The “high priority” area map will be evaluated annually and updated as needed.

4.2.3.3.2 Field Assessment of Priority Areas

There are 262 outfalls located within West Valley City, including 12 “high priority” outfalls, 10 “high priority” areas, and the E.coli “high priority” area around the Jordan River Basin. All High Priority areas will be screened and assessed annually. Dry Weather Screening inspections are in the Cityworks database.
Information regarding dry weather screening of priority and other outfalls and areas is located on a city GIS map at the following link.
https://wvc-ut.maps.arcgis.com/apps/opsdashboard/index.html#/6d86837c33b44dada61a8fe97dc83866

4.2.3.3.3 Dry Weather Screening

All outfalls within the City are inspected at least once every five years. High Priority Outfalls will be inspected annually. A digital inspection form is used and documented in the Cityworks database.

4.2.3.3.4 Need for Separate UPDES Permit

The city will notify the Director of the Division of Water Quality if it is suspected or discovered that a discharger needs a separate UPDES permit.

4.2.3.4 Tracing Illicit Discharge Source Procedures

Standard operating procedures for detecting and eliminating illicit discharges have been developed and are found in Appendix G. When an illicit discharge is reported, a stormwater inspector investigates on-site and locates the source of the discharge. The source is identified either by visual observation at the reported location of the incident (i.e. someone dumping pollutants into the storm drain) or by following the storm drain system upstream to locate the source of the pollutant.

4.2.3.5 Characterize the Nature and/or Threat of the Illicit Discharge

Standard operating procedures for characterizing the nature and/or threat of the illicit discharge are found in Appendix G. Most of the discharges are known substances (i.e. someone is reported to be dumping oil down the storm drain). Where the substance is unknown, storm water inspectors perform a limited analysis to identify the pollutant (i.e. pH level tests, visual identification of the substance). If stormwater inspectors still cannot identify the substance, the West Valley City Fire Department or the Salt Lake County Health Department is called to help identify the substance and perform further analysis.

4.2.3.5.1 Inspection Documentation

When the source of a non-storm water discharge is identified and confirmed, the following information is recorded in an inspection report including the following information

- Date of initial report of discharge
- Date investigation was initiated
- Date discharge was observed
- Location of discharge
- Description of discharge
- Method of discovery
- Date of removal, repair, or enforcement action
- Date and method of removal verification

If necessary, analytical monitoring may be completed to identify the potential source(s) and characterize the nature of the illicit discharge by a 3rd party. The decision process for utilizing analytical monitoring will be fully documented in the digital inspection report. Inspection documentation is saved digitally and available in the Public Works Engineer office.

4.2.3.6 Ceasing Illicit Discharges

Standard operating procedures for ceasing illicit discharge are found in Appendix G. West Valley City is proactive in its efforts to cease illicit discharges. When responding to an illicit discharge or spill, storm water enforcement personnel respondents identify the source and require the violator to stop the discharge following the Cease Illicit Discharges SOP. In instances where the violator is not present, respondents take appropriate measures to cease the discharge at the source. Once the discharge has ceased, SOPs are followed to begin cleanup activities.

4.2.3.6.1 IDDE Investigation Reports

All IDDE investigations are thoroughly documented and retained in files at the Public Works Engineering Division offices. The report will describe what actions were taken to comply with the permit requirements and the reason if any requirements were not met. All reports are stored in Cityworks and available to view upon requests.

4.2.3.6.2 Strict Liability Not Imposed

West Valley City prohibits illicit discharge within city limits. The city also takes appropriate action to detect and address violations. However, strict liability is not imposed on the City.

4.2.3.6.3 IDDE Investigations Available for the Director of the Utah Division of Water Quality

All IDDE investigations are thoroughly documented and retained in files at the Public Works Engineering Division offices. In a rare case the Director feels the City has not met standards, the City will provide immediate documentation or rationale as to why compliance within the minimum performance measures outlined in Parts 4.2.3.5 or 4.2.3.6 were not followed.

4.2.3.7 Illicit Discharge Education and Training

The following sections of this SWMP describe IDDE related education and training programs implemented by the City:

- 4.2.1.1 Target Specific Pollutants and Sources
- 4.2.1.2 General Public Education and Outreach Program
- 4.2.1.3 Businesses and Commercial Institutions Education and Outreach Program
- 4.2.1.4 Construction Industry Education Program
- 4.2.6.10 Employee Training

4.2.3.8 Household Hazardous Waste

Proper household hazardous waste disposal is encouraged by the City and refers the resident to locate disposal locations through the Salt Lake County Health Department website which can be accessed through www.wvc-ut.gov/hhw.

4.2.3.9 Public Hotline

A hotline is available which connects directly to West Valley City Public Works on-call personnel to respond to any spill 24/7. The number, (801) 509-2005, is displayed on printed business cards, educational literature and materials available to the public, and is posted on the Public Works Engineering website at http://www.wvc-ut.gov/20/Engineering. When a discharge is reported, the investigation and findings are recorded in the incident report in Sharepoint . The respondent answering the hotline number is the on-call inspector and varies according to their work shifts. The respondent documents basic information about the discharge in the IDDE log. A copy of the log is saved on the City's Sharepoint site and available in the West Valley City Public Works Engineering offices. If an Illicit discharge is discovered in the investigation the report and corrective actions are entered into Cityworks and mapped with GIS.

4.2.3.9.1 Spill/Dumping Response Procedure

Upon receipt of notification of a spill, storm water inspectors respond to assess the situation. For minor spills of a known substance (i.e. oil, paint, and household chemicals) the responding personnel and/or the Public Works Operations Division have spill kits and absorbents to clean up the spill. If the discharge is large in nature or of an unknown substance or highly hazardous, the West Valley City Fire Department and/or the Salt Lake County Health Department will be called in to help with the response and contain the situation. Appendix C contains the spill response flow chart with contact information of appropriate personnel to respond to a spill or illicit discharge. The Spill Response Procedure is found in Appendix G. These documents will be updated as necessary.

4.2.3.10 Program Evaluation and Assessment

The IDDE Program is evaluated and assessed semi-annually in the West Valley City Public Works Storm Water coordination meetings described in Part 4.5.1 of this SWMP. Tracking is maintained in a log sheet described in Part 4.2.3.9 of this SWMP. An IDDE GIS Map is available to view at the Public Works Engineer Offices upon request.

4.2.3.11 Annual Training of Employees

All West Valley City staff that may encounter illicit discharges as part of their regular job duties or who may receive illicit discharge reports are trained about the IDDE program and their responsibilities within the IDDE program. All trainings are saved on an internal shared database and are available upon request in the Public Works Engineer office.

4.2.3.12 IDDE Documentation

All documentation will be maintained with the SWMP or separate appendices for review and available at the West Valley City Public Works Engineering Division offices.

Measurable Goals - Illicit Discharge Detection and Elimination (IDDE)

Measurable goals and BMPs to fulfill this minimum control measure are listed below.

Illicit Discharge Detection and Elimination (IDDE) Measurable Goals					
	Activity/BMP	**Measurable Goal**	**Description**	**Permit Section**	**Execution Date**
IDDE-1	Storm Water System Map	Update the system map to reflect 100% of the updates or changes Update all map changes upon project closeout.	Regularly update the GIS map as changes occur to storm drain systems to ensure that the map is complete and accurate at any given time.	4.2.3.1	Ongoing
IDDE-2	IDDE Enforcement Strategy	Ensure SOP's are followed 100% of the enforcement actions issued to illegal discharge violators	Follow up on 100% of the illicit and/or illegal discharges reported to us, through the public hotline or by staff members, and ensure that compliance has been achieved.	4.2.3.2	Ongoing
IDDE-3	Screen and Assess "High Priority" IDDE Areas	Screen and assess all "High Priority" IDDE areas at least once within the term of the permit.	Based on the IDDE "High Priority" Area map, screen and assess the outfalls and other areas shown on the map at least once during the five year permit term. Where feasible, assess 100% of "High Priority" areas. Report findings and impose sanctions as necessary for any compliance measures.	4.2.3.3	Annually
IDDE-4	Dry Weather Screening	Screen all Outfalls at least once during the permit term	Dry weather screen all outfalls at least once during the term of this permit	4.2.3.3	ongoing
IDDE-5	IDDE Hotline	Respond to 100% of calls received on the IDDE Hotline	All calls received through the public hotline for spills and dumping will be responded too and logged in the IDDE tracker.	4.2.3.9	Ongoing

IDDE-6	IDDE Training	Train 100% of employees described in this BMP on an annual basis about the IDDE program.	For those employees described in this minimum control measure that should receive training about the IDDE program, its functions and available BMPs, ensure that 100% receive annual training as provide by West Valley City.	4.2.3.11	Annually

4.2.4 Construction Site Storm Water Runoff Control

This minimum control measure reduces pollutants from all new construction project sites ("projects") greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale. This applies to public and private projects.

4.2.4.1 Erosion and Sediment Control Practices

All projects are required to use erosion and sediment control practices per West Valley City Code, Chapter 18-7. Compliance enforcement measures are stated in West Valley City Code, Chapter 18-9 and West Valley City Code, Title 10.

4.2.4.1.1 Require a SWPPP for Construction Projects

All projects greater than or equal to one acre or part of a larger common plan of development are required to prepare a SWPPP, per West Valley City Code, Section 18-7. The developers are referred to the State SWPPP template located on the Division of Water Quality website to prepare the SWPPP. https://deq.utah.gov/water-quality/general-construction-storm-water-updes-permits

As per West Valley City Code, Section 18-7, a Storm Water Management Permit, and a Storm Water Construction Permit are required for any areas disturbing greater than or equal to one acre or are part of a larger common plan of development. As part of the application process, proof of a Notice of Intent issued from the State is required before a permit will be issued.

4.2.4.1.2 Operators to Maintain Permit Coverage

Operators are required to obtain coverage under the current UPDES Storm Water General Permit for Construction Activities for the duration of the project

4.2.4.1.3 Private Property Access for Inspections

All projects on private property which have a West Valley City Storm Water Construction Permit provide access to West Valley City personnel for inspections of storm water facilities per West Valley City Code, Chapter18-5 and 18-7.

4.2.4.2 Enforcement Strategy

To ensure compliance of construction BMPs, an enforcement strategy has been developed. The first opportunity of enforcement is through the site plan review process. At this stage, it can be ensured that the approved set of plans contains the required BMPs. At the pre-construction meeting with the contractor, the SWPPP is discussed. The plan is reviewed on-site with the contractor and other responsible parties. Site specific BMPs are discussed as well as the need to continually update the SWPPP document with changes to the plan and documentation of all corrective actions. Lastly, through site inspections it can be verified that approved BMPs are in place and properly functioning. Where deficiencies exist, enforcement SOPs can be followed to bring a deficiency into compliance.

4.2.4.2.1 Construction BMP Enforcement

During the pre-construction meeting, SWPPP requirements and construction BMPs are discussed to ensure compliance with requirements. On-site inspections by authorized West Valley City storm water enforcement personnel are completed to ensure BMPs are properly installed, maintained and functioning. If a violation of the SWPPP occurs, or any other storm water quality protection issue is apparent on-site during site visits and inspections, West Valley City stormwater enforcement

personnel have the authority to issue a warning, administrative citation, notice of violation and/or stop work order, depending on severity of the violation, to bring the construction site into compliance with appropriate BMPs. Escalating Enforcement SOPs are found in Appendix G.

4.2.4.2.2 Documentation of all Enforcement Actions

Enforcement documents issued by Public Works personnel are maintained in the West Valley City Public Works Engineering Division offices. This includes site inspection reports, warnings, notes from site visits and any type of citation or orders issued to bring a site into compliance of requirements. This information is saved on Cityworks and is available upon request.

4.2.4.3 SWPPP Requirements

SWPPP review SOPs have been developed and are in Appendix G. Projects disturbing greater than or equal to one acre or that are part of a larger common plan of development are required to submit a SWPPP. The Community Development Department notifies the Engineering Division when building permits are applied for. The Engineering Division verifies whether the building lot is part of a common plan of development and requires a SWPPP for those lots. Records of these projects are kept for five years or until construction is completed, whichever is longer. Developers are directed to look online at http://www.wvc-ut.gov/785/Development-Section for SWPPP information and requirements.

4.2.4.3.1 Pre-Construction SWPPP Review

Pre-construction SWPPP reviews are conducted for all projects as per the SWPPP Review Procedures SOP located in Appendix G. This includes a review of design, operations and construction BMP's for the project.

4.2.4.3.2 Procedures for receiving and considering public input

Contact information for questions, information or comments on proposed projects is on the Public Works - Stormwater webpage.

4.2.4.3.3 Identify Priority Construction Sites

West Valley City will identify priority construction sites based on potential pollutants and proximity to the Jordan River, which is considered an impaired water body. High priority sites may be located within the Jordan, Decker and Redwood drainage districts as shown on the Storm Water Districts Map located in Appendix A or other areas that the City feels there is a need to be considered a high priority site.

4.2.4.4 Construction Site Inspection Program

During the construction phase, site inspections are completed to ensure approved BMPs are installed, maintained, and functioning properly on-site to prevent construction storm water runoff from entering the storm drain system. The Storm Water Inspection Procedures located in Appendix G are followed for these inspections. Where violations occur, the Escalating Enforcement Procedures SOP is followed to impose sanctions against the violation and bring the site into compliance.

4.2.4.4.1 New Construction Site Inspections

All sites greater than or equal to one acre or part of a larger common plan of development will be inspected by a West Valley City Registered Stormwater Inspector at least monthly using the Department of Environmental Quality's *Construction Storm Water Inspection Form*.

4.2.4.4.2 Inspections Before, During and After Construction

West Valley City personnel will inspect all projects, private or public, prior to land disturbance, during construction (as required in Part 4.2.4.4.1) and following active construction. The State SWPPP Compliance Inspection Form is used for SWPPP inspections. A copy of this form is in Appendix D.

After the City receives notification from the State that a notice of termination has been filed or from the West Valley City Building Department that a certificate of occupancy has been applied for, the site is inspected by Storm Water Enforcement Personnel as part of the bond release to ensure that final stabilization has been achieved.

4.2.4.4.3 Priority Construction Site Inspections

Priority construction sites described in Part 4.2.4.3.2 will be inspected every other week utilizing the DEQ's Construction Storm Water Inspection Form.

4.2.4.4.4 Electronic Site Inspection Tool

The City has chosen not to implement an electronic site inspection tool for inspections done by City personnel. Electronic site inspections provided by operators will be reviewed for compliance by a West Valley City Registered Stormwater Inspector.

4.2.4.4.5 Site Inspection Follow Up

Site inspectors will follow up on issues discovered during the inspection. During the follow up inspection, pictures are taken and completed corrective actions are documented. Where corrective actions were not completed, inspectors will continue to use the Enforcement Procedures as necessary until compliance is achieved. All enforcement actions will be documented.

4.2.4.5 Staff Training

All staff members with responsibilities related to construction activities and plan review will receive regular training to implement the construction storm water program. Inspectors with RSI certification will meet the requirements to maintain Registered Stormwater Inspector certification. Plan reviewers will complete Registered SWPPP Reviewer (RSR) certification. Training records will be maintained per Part 4.2.5.5. Additional training details are included in Part 4.2.6.10.

4.2.4.6 Maintain Records

All project records, including SWPPP's, site plan reviews, inspections and enforcement actions, shall be maintained for 5 years or until construction is completed, whichever is greater.

Measurable Goals - Construction Site Storm Water Runoff Control Program

Measurable goals and BMPs to fulfill this minimum control measure are listed below.

Construction Site Storm Water Runoff Program Measurable Goals					
	Activity/BMP	**Measurable Goal**	**Description**	**Permit Section**	**Execution Date**
CON-1	SWPPP Review	Review 100% of SWPPP submittals for all development types	Review 100% of SWPPP submittals for all projects greater than or equal to one acre or part of a larger common plan of development.	4.2.4.1	Ongoing
CON-2	City Issued Permits	Issue required permits for 100% of development projects submitted	Issue a Storm Water Management Permit - Construction Period for 100% of all development projects greater than or equal to one acre or part of a larger common plan of development.	4.2.4.1	Ongoing
CON-3	Pre-Construction Meetings	Hold pre-construction meetings for 100% of projects	All private projects greater than or equal to one acre or part of a common plan of development, and all public projects have a pre-construction meeting to discuss the project, including storm water quality.	4.2.4.2	Ongoing
CON-4	Construction Site Inspections	Complete construction site inspections monthly for 100% of projects	All construction projects greater than or equal to one acre or part of a larger common plan of development are inspected at least monthly to ensure compliance of requirements and proper storm water quality protection.	4.2.4.4	Monthly
CON-5	"Priority" Construction Site Inspections	Inspect 100% of "Priority" construction site inspections bi-monthly	All "Priority" construction projects, as identified to meet requirements of the Permit, are inspected twice a month, to ensure compliance of requirements and proper storm water quality protection.	4.2.4.4	Bi-monthly
CON-6	Staff Training	Train all plan review staff	Train all Public Works plan review staff and provide opportunities for all West Valley City staff members who are RSI and RS certificate holders to renew their certificates before they expire.	4.2.4.5	Annually

4.2.5 Long-Term Storm Water Management in New Development and Redevelopment

West Valley City implements a program that requires new developments and redeveloped sites, meeting the thresholds stated in the permit to address post-construction runoff to the MS4.4.2.5.1 Post Construction Controls

West Valley City Engineering Standards outline procedures for specific BMP selection, design, installation, operation, and maintenance requirements to meet the minimum performance measures. BMPs are selected to address pollutants discharged or anticipated to be discharged from each individual site.

4.2.5.1.1 New Development/Redevelopment Non-Structural BMP's

Engineering standards address non-structural BMP requirements to minimize erosion and protect sensitive areas and natural resources. (WVC Engineering Standards, Part 4)

4.2.5.1.2 Retention Requirement

Specific hydrologic methods for calculation runoff volumes and flow rates are located in Part 4 of the West Valley City Engineering Standards.

4.2.5.1.3 Low Impact Development Approach

A Low Impact Design Approach is required for all sites that meet the requirements of 4.2.5.1.2 where feasible. The design approach is found in Part 4 of the Engineering Standards.

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4.2.5.1.4 Feasibility

A rationale for the use of alternative design criteria on sites where retention standards are unfeasible is included in the Engineering Standards. The new or redevelopment project will be required to document and quantify that infiltration, evapotranspiration and rainwater harvesting have been used to the maximum extent feasible.

Rainwater Harvesting is allowed in West Valley City. On sites where rainwater harvesting is used as a BMP, property owners will be directed to the Utah Division of Water Rights website to meet water harvesting registration requirements. The website and registration requirements are included in the Engineering Standards

4.2.5.2 Long-Term Storm Water Ordinances and Enforcement Strategy

West Valley City requires long-term post-construction storm water controls be installed on new or redevelopment sites, meeting the one-acre threshold discussed in the MS4 permit. The ordinance requires BMP selection, design, installation, operation, and maintenance with the objective of protecting water quality and reducing the discharge of pollutants.

When violations to the ordinance occur, the Escalating Enforcement procedures found in Appendix G are followed to regain compliance. These procedures may include citations, fees and/or requirements to correct deficiencies.

West Valley City Code, Sections 18-9-113 through 18-9-116 and Sections 10-2 through 10-4 authorizes the use of these enforcement strategies.

4.2.5.2.1 Chronic and Recalcitrant Violators

Steps to impose sanctions against violations of the West Valley City Code are found in the Escalating Enforcement Procedures located in Appendix G. These steps range from verbal warnings to civil, criminal, and/or other legal remedies to bring a violation into compliance.

Recalcitrant or chronic violators of city code will have imposed escalating fines and/or other legal remedies until compliance is achieved.

4.2.5.2.2 BMP Selection and Inspection

Part 4 of the Engineering Standards require new development and redevelopment projects to submit a drainage report. A requirement of the drainage report is to address how water quality is protected and how pollutant discharge to the MS4 is reduced.

Long-term BMPs are inspected by the city in an annual inspection. SOPs for the inspection of long-term BMPs are found in the appendix to this document.

4.2.5.2.3 Long Term Management Permit Inspection Access

Long Term Storm Water Management Permits are issued by West Valley City for new and redeveloped sites that drain to the MS4. Language in the issued permits and city ordinance gives West Valley City Inspectors the authority to inspect the storm drain infrastructure on private property.

4.2.5.2.4 Permanent Structural BMP Inspection During Installation

The assigned city inspector will verify, through inspection, at least once before closing out a construction permit, that long-term BMP's were constructed as designed.

4.2.5.2.5 Inspection of Long-Term BMP's

Inspections of long-term BMP's constructed on sites with a Long-Term Storm Water Management Permit are conducted at least every other year. Inspections are completed in Cityworks.

Escalating enforcement procedures (included in Appendix G of this SWMP) are used to ensure enforcement of the Long-Term Storm Water Management Permit maintenance requirements, designed to protect water quality, and reduce pollutant discharge.

4.2.5.3 Plan Review for New Development and Re-Development Projects

The development plan review process includes comprehensive evaluation of storm water quality issues. The Engineering Standards describe storm water requirements.
The Engineering Division development review staff members examine site plans and applications for compliance to storm water regulations prior to issuance of a permit.

Storm water permitting is done online at https://pllportal.wvc-ut.gov/portal

4.2.5.3.1 Site Plan Review Procedures

Procedures for site plan review which incorporate consideration for water quality impacts are in the West Valley City Engineering Standards.

4.2.5.3.2 New and Redevelopment Post Construction Plan Review

Project plans are reviewed on all new development and redevelopment sites that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale which collectively disturbs land greater than or equal to one acre, to

ensure that the plans include long-term storm water management measures that meet city standards and ordinances.

4.2.5.4 Post-Construction Inventory

An inventory is maintained of all post-construction structural storm water control measures installed and implemented at new development and redevelopment sites that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale which collectively disturbs land greater than or equal to one acre. This inventory includes both public sites and private sector sites.

4.2.5.4.1 Post-Construction Inventory Basic Information

Inventory of privately owned and maintained BMPs consists of the information maintained in the Cityworks permitting database (project name, property ownership, contact information, location, permit start/end date), GIS mapping of individual BMPs, and storm water management plan on file.

4.2.5.4.2 Inventory Updates

As new information is discovered during inspections or other means, the inventory is updated to reflect current conditions and property ownership.

4.2.5.5 Staff Training – Post Construction Storm Water Management

Training has been and will continue to be provided to the plan review staff in the fundamentals of long-term storm water management using structural and non-structural control methods. Engineering Division review staff receives training regarding long-term practices generally through USWAC, and associated conferences. Members of the Engineering Division involved in long term storm water management will maintain RSW or RSI certifications through USWAC. Training records are stored in the Engineering Division offices.

New employees involved in post-construction storm water management will be trained within 60 days of hire.

Measurable Goals - Long-Term Storm Water Management Program

Measurable goals and BMPs to fulfill this minimum control measure are listed below.

Long-term Storm Water Management Program Measurable Goals					
	Activity/BMP	**Measurable Goal**	**Description**	**Permit Section**	**Execution Date**
LTM-1	Update Engineering Standards	Update Engineering Standards	Update and post the adopted Engineering Standards with recommended BMPs for development types as well as other minimum control standards required of all developments and redevelopments.	4.2.5.1	July 2020
LTM-2	Improve the City's Structural Controls Inventory	City owned structural controls	Connect the inventory to Cityworks maintenance schedules.	4.2.5.4.2	Ongoing
LTM-3	RSW Certification	Provide RSW certification training for Development Section Manager	Have the SWPPP Review Staff attend the RSW class and receive RSW certification	4.2.5.5	Ongoing
LTM-4	RSI Certification	Maintain RSI Certification for West Valley City Storm Water Enforcement Personnel	Provide the training to maintain RSI certification for all West Valley City Storm Water Enforcement Personnel. Provide the training to maintain RSR certification for all West Valley City Development Review Staff.	4.2.5.5	Ongoing

4.2.6 Pollution Prevention & Good Housekeeping for Municipal Operations

West Valley City seeks to prevent or reduce runoff of pollutants to the MS4 and waters of the state through the implementation of a pollution prevention and good housekeeping program for municipal operations. This segment of the SWMP document will address specific components of the program and identify departmental responsibility for such.

4.2.6.1 City Owned or Operated Facilities and Storm Water Controls

Appendix F of the City's management plan contains a list of all City-owned or operated facilities, parks, and storm water controls.

4.2.6.2 City Owned Facility Inventory Assessment

A list of city-owned and maintained facilities as required by 4.2.6.1 of the MS4 permit is included in Appendix F of this SWMP.
Those buildings and facilities which have a potentially substantial impact on storm water quality follow operations and SOPs which prevent negative impacts to the storm water system. An updated list of City-owned and operated facilities can be found in Appendix F.

An assessment was performed of potential pollutants that could originate from each facility by key personnel including the Public Works Director, Parks and Recreation Director, City Engineer, Public Works Operations Manager, Storm Water Supervisor and Storm Water Inspector.

Results from this assessment are found in Appendix F.

4.2.6.3 "High Priority" City-Owned Facilities

Based on the assessment performed in part 4.2.6.2 of this SWMP, "High priority" facilities were identified to include the following:

- Public Works Operations Facility, including fleet maintenance
- Parks Department Operations Facility
- The Ridge Golf Course and associated maintenance facilities
- Stonebridge Golf Course and associated maintenance facilities

These sites were determined because of the nature of operations and their activities that may impact storm water quality.

4.2.6.4 "High Priority" City-Owned Facility SWPPP

Each of the "high priority" facilities identified in part 4.2.6.3 of this SWMP have a Storm Water Pollution Prevention Plan (SWPPP). These plans can be found in Appendix F of this management Plan. Operations and SOPs in place for general storm water quality are in Appendix G.

4.2.6.5 "High Priority" City-Owned Facility Site Inspections

Each of the "High Priority" Sites will be inspected by qualified city staff according to the following procedures.

4.2.6.5.1 "High Priority" City-Owned Facility Monthly Visual Inspections

The "high priority" facilities defined in Part 4.2.6.3 of this SWMP were identified because of the higher potential risk of pollutants contaminating the storm drain system due to the nature of work performed at these facilities. Monthly visual inspections are completed to verify that proper SOPs are followed and that BMPs are functioning.

Automatic work orders on Cityworks assigns the monthly Inspections. Deficiencies and corrective actions are documented and logged in the program, with follow up tasks assigned. The work order is unable to close until all follow up assignments have been complete.

4.2.6.5.2 Semi-Annual Comprehensive Inspections

Semi-Annual comprehensive inspections will be performed at all "high priority" facilities. Each division is responsible for completing inspections of "High Priority" City-Owned facilities. The Storm Water Inspector is available to answer any questions. Inspection procedures include observing pollutant-generating areas and storm water controls found on-site. A copy of the SOP for Semi-Annual Comprehensive Inspections is included in Appendix G.

An inspection form on Cityworks has been developed specifically for use at the Public Works Operations Facility and Fleet Maintenance Building. Parks Operations Facility and the two golf courses keep record with their management plan. Deficiencies and corrective actions are documented on the inspection form. A follow up inspection or confirmation of corrective actions is required before the Inspection Work Order can be closed. Records of inspections will be stored in Cityworks.

4.2.6.5.3 Annual Visual Observations of Storm Water Discharges

At least once per year, the quality of the storm water discharges from the "high priority" facilities during the first half hour of a measurable storm (unless climate conditions preclude doing so) will be observed and recorded.

Observations of storm water discharges will be noted on the annual comprehensive inspection form created in Cityworks, including deficiencies and recommended corrective actions. A copy of the SOP for Annual Inspections, including visual observations, is included in Appendix G.

4.2.6.6 Protecting Water Quality at All City-Owned Facilities

SOP's for City-Owned facilities have been developed to protect water quality and can be found in Appendix G.

4.2.6.6.1 SOP's to Address Water Quality

West Valley City has designed all standard operating procedures for storm water management around protecting water quality. This includes but is not limited to all suggestions by the state. The City's SOPs can be found in Appendix G.

4.2.6.6.2 SOP Scheduled Maintenance

The City uses Cityworks to create scheduled maintenance work orders. This includes a schedule for storm drain maintenance inspections, cleaning, and repairs. The City has identified areas east of Redwood Road to be swept more frequent because of the proximity to the Jordan River.

The open channels at Metro Pump Station are cleaned bi-annually to remove silt, vegetation, and/or other debris. All desilting structures are dredged to remove silt before contaminants can enter water channels and/or detention/retention basins. BMP's such as oil/water separators, hydrodynamic separators are cleaned.

Work orders are saved within Cityworks.

4.2.6.6.3 Proper Disposal of Waste and Wastewater

West Valley City has constructed a contained, covered washout area connected to the sanitary sewer. Each of the standard operating procedures outlines proper disposal of waste and wastewater. Each SOP offers detail on runoff prevention, containment, and proper disposal methods during maintenance. Reference all SOPs in Appendix G.

4.2.6.6.4 Wash Water Discharge

The City prohibits wash water discharge to the MS4 or waters of the state. Procedures to ensure discharge is avoided are outlined in each SOP that requires wash water. Reference each SOP in appendix G.

4.2.6.6.5 Spill Prevention Coordination with Fire Department

The City has an extensive spill prevention SOP, found in appendix G, that coordinates with the Fire Department.

4.2.6.6.6 Floor Drain Inventory

A current inventory of floor drains in city-owned or operated buildings will be kept current in Appendix F of this document. Construction drawings for each city owned facility are being collected and will be included in Appendix F. The inventory will be updated as new facilities are built.

4.2.6.7 Contractor O& M

West Valley City does not contract O & M activities.

4.2.6.8 Water Quality Impacts of New Structural Controls

4.2.6.8.1 - Structural Controls on New Flood Management Projects

As new flood management projects are planned and designed, the Engineering Division performs a Project Storm Water Quality Evaluation (see appendix F for form). Structural controls are planned to be included in new flood management projects where appropriate.

4.2.6.8.2 – Structural Controls on Existing Flood Management Facilities

An evaluation of existing structural controls on flood control facilities is performed annually during the monthly storm water coordination meeting assigned to address Good Housekeeping and Pollution Prevention for Municipal Operations.

Summary of potential improvements is found in Appendix F.

4.2.6.9 Retrofitting Existing City-Owned Developed Sites

A plan to retrofit existing developed sites owned by the City has been developed based on the criteria found in section 4.2.6.9 of the permit. The ranking process is shown on a spreadsheet in Appendix F of the management plan. The following retrofit projects received the highest ranking, and will be incorporated into project planning.

Project	Program Year	Best-suited Control Measure	Other Potential Control Measures

Public Works Maintenance Facility	2020	Covered storage of asphalt cleaning and sweepings storage areas	Secondary containment
Parks Maintenance Facility	2020	Covered storage	Secondary containment
Maverik Center Parking Lot Resurfacing	2022-23	Oil-water separators	Parking Lot LID
All City Facilities	2020-2025	Rainwater harvesting	Oil–water separators

4.2.6.10 Operations and Maintenance Employee Training on Water Quality

Annual Training is given to all City employees whose job function is likely to impact storm water quality. The trainings will address the importance of protecting water quality by focusing in on the following areas:

- Operation and maintenance requirements
- Inspection procedures, including how to report water quality concerns and illicit discharges
- Ways to minimize impacts to water quality
- Review of SOPs and “High Priority” area SWPPPs

All new employees will be trained within 60 days of hire, with follow-up trainings provided annually and when needed to address changes in procedures, methods, or when non-compliance issues are discovered.

The City will keep a log of all trainings during this permit period saved on Sharepoint with the rest of the supporting documents

Measurable Goals - Pollution Prevention & Good Housekeeping Program

Measurable goals and BMPs to fulfill this minimum control measure are listed below.

Pollution Prevention and Good Housekeeping Program Measurable Goals					
	Activity/BMP	Measurable Goal	Description	Permit Section	Execution Date
PPGH-1	Floor Drains	Identify 100% of Floor Drains	Floor drains located in city-owned facilities will be identified, inventoried and will confirm that floor drains connect to the sanitary sewer system within 180 days of coverage under this permit.	4.2.6.4.1	ongoing
PPGH-2	Storm Drain Mapping	Map 100% of storm drains on City-owned facilities	All storm drains located on the city-owned facilities will be mapped and included in the GIS system.	4.2.6.4.1	Ongoing
PPGH-3	Street Sweeping	100% of streets swept at least 5 times annually	All City-owned and maintained roadways will be swept at least 5 times annually.	4.2.6.4.5	5 Times Annually
PPGH-4	Catch Basin Cleaning	Clean 100% of inspected boxes which contain 50% or more sediment annually	Clean 100% of inspected boxes which contained 50% or more sediment present at inspection.	4.2.6.4.6	Annually
PPGH-5	Monthly Visual Inspections	Complete 100% of monthly visual inspections	100% of monthly visual inspections for the four "high priority" facilities to be completed.	4.2.6.5.1	Monthly
PPGH-6	Semi Annual Comprehensive Inspections	Complete 100% of Semi Annual Comprehensive Inspections	100% of semi annual comprehensive inspections of the four "high priority" facilities to be completed.	4.2.6.5.2	Semi Annual
PPGH-7	Annual Visual Storm Water Discharge Observations	Document 100% of Annual Visual Storm Water Discharge Observations	Annual visual storm water discharges observed at the four "high priority" facilities will be documented and implement any corrective actions recommended.	4.2.6.5.3	Annual

PPGH-8	Existing Structural Controls Assessment	Assess 100% of city-owned structural controls	Annual reevaluation of city-owned structural controls for potential retrofit.	4.2.6.8.1	ongoing
PPGH-9	Project Evaluation Checklist	Develop and implement a project evaluation checklist	Develop and implement a project evaluation checklist that will be used on all public construction projects. The checklist will include consideration of LID techniques and any impacts to storm water quality.	4.2.6.9	Ongoing
PPGH-10	Employee Training	Train 100% of employees	Provide training opportunities for all employees whose job responsibilities involve storm water quality impacts.	4.2.6.10	Annually

4.3 Sharing Responsibility

4.3.1 Reliance on Other Entities

West Valley City is part of the Salt Lake County Storm Water Coalition. The Coalition provides public education by as described in section 4.2.1.2.

West Valley City does not rely on any other entity to share its responsibilities for executing the minimum control measures in their entirety discussed in this SWMP. The expectations and requirements are described and enforced through an agreement between West Valley City and Salt Lake County.

4.4 Review and Update of the Storm Water Management Programs

4.4.1 Annual Review

A monthly storm water coordination meeting is held with representation from Public Works Administration, Operations, Engineering and Parks and Recreation. Each minimum control measure is rotated every six months into the discussion of the monthly meetings, resulting in each minimum control measure being discussed twice a year. Included in the discussion is an evaluation of existing program measures, proposed improvements to the program and ensuring that all permit requirements are being met. Assignments are given to personnel in attendance for any changes and improvements to the programs. The month following assigned tasks being given, follow up reports are provided on the progress of each assignment.

Any updates that are made to the SWMP will be submitted to the DEQ.

The following schedule is utilized in monthly coordination meetings to discuss each minimum control measure of the permit and its associated programs.

Storm Water Coordination Meeting Topics		
Month	**MCM Topic to Discuss**	**MCM Topic to Follow Up On Assignments**
January	Construction Site Runoff Control	Long-Term Storm Water Management
February	Public Education & Outreach	Construction Site Runoff Control
March	Public Involvement/ Participation	Public Education & Outreach
April	Illicit Discharge Detection & Elimination	Public Involvement/ Participation
May	Pollution Prevention and Good Housekeeping for Municipal Operations	Illicit Discharge Detection & Elimination

June	Long-Term Storm Water Management	Pollution Prevention and Good Housekeeping for Municipal Operations
July	Construction Site Runoff Control	Long-Term Storm Water Management
August	Public Education & Outreach	Construction Site Runoff Control
September	Public Involvement/ Participation	Public Education & Outreach
October	Illicit Discharge Detection & Elimination	Public Involvement/ Participation
November	Pollution Prevention and Good Housekeeping for Municipal Operations	Illicit Discharge Detection & Elimination
December	Long-Term Storm Water Management	Pollution Prevention and Good Housekeeping for Municipal Operations

Following the same schedule outlined in part 4.5.1 of this SWMP, any changes made in BMPs will be discussed and any changes or revisions made to BMPs will be updated in the SWMP and reported to the DEQ.

An overall assessment of the SWMP and its associated BMPs, programs and goals will be discussed in segments in the monthly storm water coordination meetings. Ineffective portions of the program will be replaced, and any updates will be submitted to the DEQ on an annual basis.

At the end of the year, the City will use all this data to prepare the annual report discussed in section 5.6.

4.4.2 Program Updates

Storm Water Management Program updates will be made as needed in accordance with update requirements.

4.4.2.1 Additions to Programs

Additions made to the SWMP document will be submitted to the DEQ and documented.

4.4.2.2 Replacing Program Details

When ineffective or unfeasible BMP's are replaced by alternative BMP's, a description of the evaluation will be documented and submitted to the DEQ for approval. The evaluation will include:

- An explanation of why the BMP is ineffective or unfeasible
- Expected effectiveness of replacement BMP
- Why the replacement BMP will achieve the goal of the ineffective BMP

4.4.3 Documentation of Changes

Change requests will be written, signed, and submitted to the DEQ per requirements.

4.4.4 Confirmation of Change Request

All approvals or denials of change requests will come, in writing, from the Director of the Utah Division of Water Quality.

4.4.5 Program Updates Required by the Department of Environmental Quality

The City will address any program updates required by the Department of Environmental Quality. The Director of the Utah Division of Water Quality may require updates to the Storm Water Management Plan as needed. These updates may include, but are not limited to:

- Address impacts on receiving water quality caused, or contributed to, by discharges from the MS4
- Include more stringent requirements necessary to comply with Federal regulatory requirements
- Include other conditions deemed necessary by the Director of the Utah Division of Water Quality to comply with the goals and requirements of the Clean Water Act

5.2 Analytical Monitoring

West Valley City is a Phase II co-Permittee and is not required to perform analytical monitoring, with the following exceptions.

- Water quality sampling may be required for compliance with TMDLs pursuant to Part 3.1 of Permit No. UTR090000
- Sampling or testing for characterizing illicit discharges may be required for compliance with Parts 4.2.3.4, 4.2.3.5, and 4.2.3.5.1 of Permit No. UTR090000

5.3 Non-analytical Monitoring

Per Part 4.2.3.3.2, visual dry weather screening will be completed.

5.4 Record Keeping

5.4.1 Maintain SWMP

All portions of the SWMP and supplementary documents located in the Appendices will be updated and maintained to stay current with program details.

5.4.2 Supplementary Document Updates

All modifications to supplementary documentation (i.e. appendices, SOPs included in the SWMP) will be submitted to the DEQ.

5.4.3 Division Modifications

If the Division provides written determination that parts or all of the supplementary documents are not in compliance with permit requirements, modifications will be completed within a time frame specified by the DEQ.

5.4.4 Document Retention

All documents related to compliance with the permit and the SWMP will be maintained for at least five years.

5.4.5 Public Availability

All documents will be made available to the public upon request and will be posted on the City website.

5.5 Reporting

5.5.1 Annual Report

West Valley City will submit the required annual report on or before October 1 of each year of the permit term using the required form from the DEQ website.

The form will be signed by the Director of Public Works certifying the report in accordance with section 6.8. It will then be uploaded directly to the Department of Water Quality's document system on the DEQ's website.

5.6 Legal Authority

Through the West Valley City Municipal Code, West Valley City has ensured appropriate legal authority to:

- Control the contribution of pollutants to the MS4
- Prohibit illicit and non-storm water discharges
- Control the discharge of spills, dumping or disposal of non-storm water materials
- Control interagency contributions in West Valley City jurisdiction
- Require compliance to meet measures
- Conduct inspection, surveillance and monitoring activities to ensure compliance

6.0 Standard Permit Conditions

West Valley City will comply with the standard permit conditions outlined in Part 6.0.

6.8 Signatory Requirements

The permit application will be signed by either a principal executive officer or ranking elected official per the requirement in part 6.8.1 of the Permit. That person signing will make the following certification:

"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 Jordan Valley Municipalities Permit No. UTS000001 46 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

6.9 Availability of reports

This management plan and accompanying reports and appendices will be available on the City's website as well as in the Public Works Engineering offices for the life of the plan. It is available to any person that may be interested.

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Public Works 2025 SOP Manual

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- Exposure Control Reporting of Infectious Disease or Chemical Containment
- Meth Lab Response
- Wastewater Discharge

Training Records

Training Logs available in the City's sharepoint Storm Water Management Plan Development Site