

## REQUEST FOR COUNCIL ACTION

**SUBJECT:** Annual Stormwater Report

**SUMMARY:** The City has prepared the 2015/2016 Annual Storm Water Report as required by Federal and State law and the City's Utah Pollution Discharge Elimination Permit for storm water discharged to waters of the state. The report asks for the City to respond Yes/No to specific questions about financing, inspections, development review, and personnel.

**FISCAL AND/OR ASSET IMPACT:** None.

**STAFF RECOMMENDATION:**

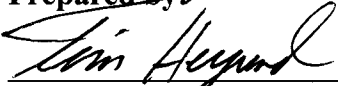
Staff recommends the City Council authorize the Mayor to sign the City of West Jordan's Annual Stormwater Report.

**MOTION RECOMMENDED:**

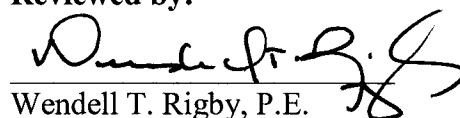
"I move to approve Resolution No. 16-133 authorizing the Mayor to sign the City of West Jordan's Annual Stormwater Report."

Roll Call vote required.

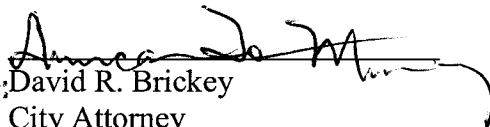
**Prepared by:**

  
\_\_\_\_\_  
Tim Heyrend, P.E.  
Senior Engineer

**Reviewed by:**

  
\_\_\_\_\_  
Wendell T. Rigby, P.E.  
Director of Public Works

**Reviewed as to Legal Sufficiency:**

  
\_\_\_\_\_  
For: David R. Brickey  
City Attorney

By: Duncan T. Murray  
Deputy City Attorney

**Recommended by:**

  
\_\_\_\_\_  
Mark R. Palesh  
City Manager

## **BACKGROUND DISCUSSION:**

The Annual Stormwater Report for the 2015-2016 Fiscal Year shows continuing efforts by staff to comply with the City's Utah Pollution Discharge and Elimination System (UPDES) permit. The City strives to remain in compliance with the UPDES permit by maintaining and cleaning pipes, detention basin inspections and cleaning, inspections of construction sites, review of new developments for hydrology and hydraulic compliance, and dry weather screening of storm drains for illicit discharge detection. Findings from the recent stormwater audit showed that the City needs to implement increased inspections of private, stormwater facilities such as detention basins, and separators, focus on low impact development strategies for new developments, and to increase the frequency of system cleaning and maintenance of pipelines to at a minimum once a year. Last year the City spent approximately \$5.5 Million on the entire stormwater utility and capital projects program. Funding sources came from the stormwater utility fee, impact fees, and bonds.

There has been an increase in contractor compliance with stormwater pollution prevention plans, and reductions in sediment discharges to the stormwater system, due to inspections by the dedicated stormwater inspector. Also, the City continues to construct stormwater projects to reduce or eliminate flooding. This year pipelines and inlets were installed at 7000 South from Constitution Park to 3300 and 3370 West, 7000 South from the Jordan River to 1300 West, and in 7800 South at 5200 West, 4950 West, and 4800 West. Additional capital storm projects are currently underway to address shortcomings of the existing storm drainage system.

### **Attachments:**

Resolution

Annual Stormwater Report

THE CITY OF WEST JORDAN, UTAH  
A Municipal Corporation

RESOLUTION NO. 16-133

A RESOLUTION AUTHORIZING THE MAYOR TO SIGN THE CITY OF WEST JORDAN'S  
ANNUAL STORMWATER REPORT.

Whereas, qualified City personnel have prepared the City's Annual Stormwater Report as required for compliance with the City's Utah Pollution Discharge Elimination (UPDES) Permit for stormwater discharges to waters of the State (a copy of which is attached hereto); and

Whereas, the City Staff has reviewed the Annual Stormwater Report, and finds the report to be true and accurate; and

Whereas, the City Council has reviewed the Annual Stormwater Report, and understands the current status of the City's UPDES permit;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST JORDAN, UTAH, THAT:

Section 1. The Mayor is hereby authorized and directed to sign the 'Certification Statement' in Section 10 of the Annual Stormwater Report.

Section 2. This Resolution shall take effect immediately upon passage.

Adopted by the City Council of West Jordan, Utah, this 24<sup>th</sup> day of August, 2016.

CITY OF WEST JORDAN

ATTEST:

By: \_\_\_\_\_  
Kim V. Rolfe  
Mayor

\_\_\_\_\_  
Melanie Briggs  
City Recorder

RESOLUTION NO. 16-133

A RESOLUTION AUTHORIZING THE MAYOR TO SIGN THE CITY OF WEST JORDAN'S ANNUAL STORMWATER REPORT.

Voting by the City Council	"AYE"	"NAY"
Council Member Dirk Burton	_____	_____
Council Member Jeff Haaga	_____	_____
Council Member Zach Jacob	_____	_____
Council Member Chris McConnehey	_____	_____
Council Member Chad Nichols	_____	_____
Council Member Sophie Rice	_____	_____
Mayor Kim V. Rolfe	_____	_____

# Utah Pollutant Discharge Elimination System Storm Water Program

## Small MS4 Report Form

The purpose of this report is to contribute information to an evaluation of the UPDES small municipal separate storm sewer system (MS4) permit program. Consistent with 40 CFR §122.37 the Utah Department of Environmental Quality is assessing the status of the storm water program. A "no" answer to a question does not necessarily mean noncompliance with your permit or with the federal regulations. In order to establish the range of variability in the program it is necessary to ask questions along a fairly broad performance continuum.

### 1. MS4 Information

City of West Jordan

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Name of MS4

Tim Heyrend Senior Engineer

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Name of Contact Person (First) (Last) (Title)

(801) 569-5086 timh@wjordan.com

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Telephone (including area code) Email

8000 South Redwood Road

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Mailing Address

West Jordan UT 84088

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City State ZIP code

What size population does your MS4 serve? 111,090 UPDES number UTS000001

What is the reporting period for this report? (mm/dd/yyyy) From 07/01/2015 to 06/30/2016

### 2. Water Quality Priorities

- A. Does your MS4 discharge to waters listed as impaired on a state 303(d) list?  Yes  No
- B. If yes, identify each impaired water, the impairment, whether a TMDL has been approved by EPA for each, and whether the TMDL assigns a wasteload allocation to your MS4. Use a new line for each impairment, and attach additional pages as necessary.

Impaired Water	Impairment	Approved TMDL		TMDL assigns WLA to MS4	
Jordan River	TDS, Temp., D.O., E.coli	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

- C. What specific sources contributing to the impairment(s) are you targeting in your storm water program?  
Industrial, commercial, and residential discharges
- D. Do you discharge to any high-quality waters (e.g., Tier 2, Tier 3, outstanding natural resource waters, or other state or federal designation)?  Yes  No
- E. Are you implementing additional specific provisions to ensure their continued integrity?  Yes  No

**3. Public Education and Public Participation**

A. Is your public education program targeting specific pollutants and sources of those pollutants?  Yes  No

B. If yes, what are the specific sources and/or pollutants addressed by your public education program?

Household hazardous waste, oil, grass clippings, fertilizer, leaves, trash

C. Note specific successful outcome(s) (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period.

We had 1000+ residents bring in HHW to the Trans Jordan Landfill last year from West Jordan, held HHHW collection event.

D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your storm water program?  Yes  No

E. Do you belong to a storm water coalition or other advisory committee? If yes, describe:  Yes  No

Salt Lake County Stormwater Coalition

**4. Construction**

A. Do you have an ordinance or other regulatory mechanism stipulating:

Erosion and sediment control requirements?  Yes  No

Other construction waste control requirements?  Yes  No

Requirement to submit construction plans for review?  Yes  No

MS4 enforcement authority?  Yes  No

B. Do you have written procedures for:

Reviewing construction plans?  Yes  No

Performing inspections?  Yes  No

Responding to violations?  Yes  No

C. What is the threshold for construction storm water plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? All new construction projects are reviewed

D. Identify the number of active construction sites  $\geq 1$  acre in operation in your jurisdiction at any time during the reporting period. 28

E. How many of the sites identified in 4.D did you inspect during this reporting period? All

F. Identify the number of active construction sites  $< 1$  acre in operation in your jurisdiction at any time during the reporting period. 27

G. How many of the sites identified in 4.F did you inspect during this reporting period? All

H. Describe, on average, the frequency with which your program conducts construction site inspections.

Every 1 to 3 days for each project

I. Do you prioritize certain construction sites for more frequent inspections?  Yes  No

If Yes, based on what criteria? How close the site is to a water body

J. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:

Yes Notice of violation # 16 No Authority

Yes Administrative fines # \_\_\_\_\_ No Authority

Yes Stop Work Orders # \_\_\_\_\_ No Authority

Yes Civil penalties # \_\_\_\_\_ No Authority

Yes Criminal actions # \_\_\_\_\_ No Authority

Yes Administrative orders # \_\_\_\_\_ No Authority

Yes Other \_\_\_\_\_ # \_\_\_\_\_

K. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions of active construction sites in your jurisdiction?  Yes  No

L. What are the 3 most common types of violations documented during this reporting period?  
Mud Tracking, failure to implement BMPs, failure to maintain BMPs

M. How often do municipal employees receive training on the construction program? Yearly

**5. Illicit Discharge Elimination**

A. Have you completed a map of all outfalls and receiving waters of your storm sewer system?  Yes  No

B. Have you completed a map of all storm drain pipes and other conveyances in the storm sewer system?  Yes  No

C. Identify the number of outfalls in your storm sewer system. 155

D. Identify the number of Class V injection wells in your jurisdiction. None

E. Do you have documented procedures, including frequency, for screening outfalls?  Yes  No

F. Of the outfalls identified in 5.C, how many were screened for dry weather discharges during this reporting period?  
64

G. Of the outfalls identified in 5.C, how many have been screened for dry weather discharges at any time since you obtained MS4 permit coverage? 155

H. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type.  
1/5th of the outfalls are screened each year

I. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges?  Yes  No

J. Do you have documented procedures for tracing and removing an illegal discharge?  Yes  No

K. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges?  Yes  No

L. During this reporting period, how many illicit discharges/illegal connections have you discovered? 0/0

M. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated?  
0

N. Identify which of the following types of enforcement actions you used during the reporting period for illicit discharges, indicate the number of actions, or note those for which you do not have authority:

- Yes Notice of violation # \_\_\_\_\_ No Authority
- Yes Administrative fines # \_\_\_\_\_ No Authority
- Yes Stop Work Orders # \_\_\_\_\_ No Authority
- Yes Civil penalties # \_\_\_\_\_ No Authority
- Yes Criminal actions # \_\_\_\_\_ No Authority
- Yes Administrative orders # \_\_\_\_\_ No Authority
- Yes Other \_\_\_\_\_ # \_\_\_\_\_

O. How often do municipal employees receive training on the illicit discharge program? Yearly

**6. Storm Water Management for Municipal Operations**

- A. Have storm water pollution prevention plans (or an equivalent plan) been developed for:
  - All public parks, ball fields, other recreational facilities and other open spaces  Yes  No
  - All municipal construction activities, including those disturbing less than 1 acre  Yes  No
  - All municipal turf grass/landscape management activities  Yes  No
  - All municipal vehicle fueling, operation and maintenance activities  Yes  No
  - All municipal maintenance yards  Yes  No
  - All municipal waste handling and disposal areas  Yes  No
  - Other \_\_\_\_\_
- B. Are storm water inspections conducted at these facilities?  Yes  No
- C. If Yes, at what frequency are inspections conducted? Quarterly
- D. List activities for which operating procedures or management practices specific to storm water management have been developed (e.g., road repairs, catch basin cleaning).  
Catch basins cleaned as needed, streets swept 2X/year, roads repaired annually, Green Waste Collected
- E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection?  Yes  No
- F. If Yes, which activities and/or facilities receive most frequent inspections? flooded areas, plugged pipes and basins
- G. How are you disposing of catch basin decant water and solid material?  
Covered concrete bay discharges to sewer. Landfill
- H. Are municipal vehicles washed into an approved wastewater disposal system?  Yes  No
- I. Do all municipal employees and contractors overseeing planning and implementation of storm water-related activities receive comprehensive training on storm water management?  Yes  No
- J. If yes, do you also provide regular updates and refreshers?  Yes  No
- K. If so, how frequently and/or under what circumstances? Yearly, APWA conference, in-house

**7. Long-term (Post-Construction) Storm Water Measures**

- A. Do you have an ordinance or other regulatory mechanism to require:
  - Site plan reviews for storm water/water quality of all new and re-development projects?  Yes  No
  - Long-term operation and maintenance of storm water management controls?  Yes  No
  - Retrofitting to incorporate long-term storm water management controls?  Yes  No
- B. If you have retrofit requirements, what are the circumstances/criteria?  
Detention to 0.2 cfs/acre
- C. What are your criteria for determining which new/re-development storm water plans you will review (e.g., all projects, projects disturbing greater than one acre, etc.) All project plans are reviewed.
- D. Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development?  Yes  No
- E. Do these performance or design standards require that pre-development hydrology be met for:
  - Flow volumes  Yes  No
  - Peak discharge rates  Yes  No
  - Discharge frequency  Yes  No
  - Flow duration  Yes  No



- F. Please provide the URL/reference where all post-construction storm water management standards can be found.  
http://www.wjordan.com/Files/Eng/StormDrainDesign1
- G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection? 46
- H. How many of the plans identified in 7.G were approved? 46
- I. How many privately owned permanent storm water management practices/facilities were inspected during the reporting period? 39
- J. How many of the practices/facilities identified in I were found to have inadequate maintenance? 8
- K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections?  
Up to 14 days by the City's enforcement ordinance
- L. Do you have authority to take enforcement action for failure to properly operate and maintain storm water practices/facilities?  Yes  No
- M. How many formal enforcement actions (i.e., more than a verbal or written warning) were taken for failure to adequately operate and/or maintain storm water management practices? 0
- N. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?  Yes  No
- O. Do all municipal departments and/or staff (as relevant) have access to this tracking system?  Yes  No
- P. How often do municipal employees receive training on the post-construction program? Every Year

**8. Program Resources**

- A. What was the annual expenditure to implement MS4 permit requirements this reporting period? \$5.5 M
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit? \$12.6 M
- C. This year what is/are your source(s) of funding for the storm water program, and annual revenue (amount or percentage) derived from each?

Source: <u>Stormwater Utility Fee</u>	Amount \$ <u>2.2 M</u>	OR % <u>40</u>
Source: <u>Impact Fees</u>	Amount \$ <u>1.3 M</u>	OR % <u>24</u>
Source: <u>Bonds</u>	Amount \$ <u>2.0 M</u>	OR % <u>36</u>

- D. How many FTEs does your municipality devote to the storm water program (specifically for implementing the storm water program; not municipal employees with other primary responsibilities)? 6
- E. Do you share program implementation responsibilities with any other entities?  Yes  No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
<u>Salt Lake County</u>	<u>Public Education Advertising</u>	<u>Attend coalition meetings and provide funding</u>
_____	_____	_____
_____	_____	_____

**9. Evaluating/Measuring Progress**

A. What indicators do you use to evaluate the overall effectiveness of your storm water management program, how long have you been tracking them, and at what frequency? These are not measurable goals for individual management practices or tasks, but large-scale or long-term metrics for the overall program, such as macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
Nitrogen and Phosphorus	2002	Every 6 months to 2 years	1
TSS and BOD Discharge	2002	Every 6 months to 2 years	1

B. What environmental quality trends have you documented over the duration of your storm water program? Reports or summaries can be attached electronically, or provide the URL to where they may be found on the Web.

Levels of TSS influent to the 7800 South wetland have declined since 2009. Levels of BOD decrease to non-detect after treatment by the wetland. Nitrogen and Phosphorus levels typically show a 50% reduction after treatment by the wetland.

**10. Additional Information**

In the space below, please include any additional information on the performance of your MS4 program. If providing clarification to any of the questions on this form, please provide the question number (e.g., 2C) in your response.

**Certification Statement and Signature**

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

Yes

\_\_\_\_\_  
Name of Certifying Official, Title

\_\_\_\_\_  
Date (mm/dd/yyyy)