

UPDES STORM WATER INSPECTION EVALUATION FORM FOR SWPPP COMPLIANCE



BACKGR	1001	1D II	NFORMATION			
Site Name:				UPDES Permit #:		
Site Address:						
Local Jurisdiction or County:						
Permit Effective Date:		Pe	ermit Expiration Date:			
Total Project Area:			otal Disturbed Area:			
·	nmercia		Industrial	Linear (Road/Pipe/Power) Land D	isturbar	псе
OPERATOR	CON	JTAC	T INFORMATIO			
NAMES			IUMBERS	E-MAIL		
Operator						
Operator:						
Onsite Facility Contact:	-					
Important Contacts:	-					
Important Contacts:						
SWPPP PRE-SITE I					YES	NO
Has a pre-construction review of the SWPPP been conducted by the ap Associated pages and talanhana numbers listed in the SWPPP3	propria	te mun	iicipal agency?		-	
 Are contact names and telephone numbers listed in the SWPPP? Does the SWPPP include a site map showing storm drains, slopes/surfa 	ace dra	inage i	patterns SW discharge	points construction boundaries, limits of	 	
disturbance, surface waters (name of receiving water), structural controls,	and do	es it de	efine/explain non-structu	ural controls?		
 Does the SWPPP have an estimate of the area to be disturbed, a seque description of the soil types, controls for discharges from (asphalt/concrete 					Ţ	
the construction activity?				·		
Does the SWPPP and site map show erosion and sediment controls pla sediment basins, grass-lined channels, fiber rolls, sediment traps, silt fence			` •	· · · · · · · · · · · · · · · · · · ·		
6. Does the SWPPP and site map show and describe good housekepping				·	†	
containment and removal, sanitary waste, concrete washout pits, etc) 7. Are post-construction elements included in the SWPPP? (i.e. grass swa	ales, de	etention	h basins, vegetated filter	r strips, infiltration, depression storage,	+	
landscaping/xeriscaping, discontinuous concrete or hard surface SW conve	eyance/			- outpe,	<u> </u>	
Does the SWPPP address endangered species and historic preservation					<u> </u>	
9. Is the SWPPP signed by a responsible corporate officer with the certification of the state of	ation st	atemer	nt (see permit part 5.16.	.c.)?	<u> </u>	
10. Are the NOI and a copy of the State permit in the SWPPP?						
NOTICE OF TERM	MINA	TIO	N (NOT) INSPE	CTION		
Site Name:		Date c	of Evaluation:			
Site Address:						
Inspected By:	_	Title\C	Organization:			
	YES	NO		COMMENTS:		
Has the site been properly stabilized according to permit requirements?						
2. Have all temporary BMPs been removed?		\sqcap				
3. Have post-construction (permanent storm water system) elements been		\Box				
constructed and inspected in accordance with approved project drawings?						
4. Is the site acceptably clean?						
I certify under penalty of law that this document and all attachments were prepared uproperly gathered and evaluated the information submitted. Based on my inquiry of the information, the information submitted is, to the best of my knowledge and belief true including the possibility of fine and imprisonment for knowing violations.	the perso	son or pe	ersons who manage the sy	stem, or those persons directly responsible for gath	ering the	e
induding the possibility of the and improvement for thorning modulors.						
Inspector:						
(Print Name) (Ti	itle)			(Signature) (I	Date)	
Operator: (Print Name) (Ti	itle)			(Cignoture))oto)	
(Print Name) (Ti	itle)			(Signature) (I	Date)	



ADDITIONAL COMMENTS AND CORRECTIVE ACTIONS FOR SWPPP COMPLIANCE

F	To all		5
1	WERED	COUNT	V
	WEDER	COUNT	_

Site Name:		Date of Evaluation	:	Page	of
Site Address:					
	EPA Form 3560-3 S	EV Codes and	Descriptions		
DOR11	Discharge without a permit	BR19B	Failure to properly opera		P's
DOR18	Failure to apply for a Notice of Termination	BR19A	Failure to properly install		
BOR12 BOC17	Failure to conduct inspections Failure to develop any or adequate SWPPP/SWMP	EOR16 AOR22	Failure to submit require Narrative effluent violation		
BOC18	Failure to implement SWPPP/SWMP	DOR12	Failure to submit require		n
BOR41	Failure to maintain records	AOR12	Numeric effluent violation	n	
COR11	Failure to monitor	BOR42	Violation of a milestone i	n an order	



SWPPP COMPLIANCE INSPECTION FORM



Project Name:	ct Name: Address: Date:						
Owner:	Contractor (Gen/Sub): Start time:						
Site Contact:	P	hone:		Stop time:			
UPDES Permit #:	Expiration:	Weather: Sunny Cloudy Raining	Snowing Oth	er:			
Date of last rain event:	Duration:	Approx. Rainfall (in):					
Inspected By (Print):		Local Jurisdiction or County:					
Reason for Inspection: Sche	eduled Complaint/Tip Rando	m Receiving Waters:					
Inspection SW sampling Code (circle): SW non-sampling	Inspector Code (circle): (S) State (L) Local	Type Code (circle): 1 - Municipal	2 - Industrial	3 - State			
\$WPP	P, EROSION, SEDIMENT AND HO	USEKEEPING BMP'S INFORMATION	l		YES	NO	N/A
	<u> </u>	vious place and reasonably accessible (in a sh	ort time)?				
 Are erosion control, sediment control, and good housekeeping BMP's installed on the site as shown in the SWPPP? Has the SWPPP been updated to reflect the current site conditions (modifications dated & initialed on site map, new BMPs on site map, discontinued BMPs 				und BMPs			
•	s & spec's in SWPPP, SWPPP amendment L	• •	site map, disconti	ided Divir's			
	rmed and recorded by a qualified person on a ms/repairs, corrective action, new BMPs, ren	a weekly or biweekly basis, reporting items requested RMPs, discharges, etc.)	uired by permit? (Inspector			
		documented within the time frame allotted by the	ne inspector?				
		diverted around the site? (e.g. perimeter contri	rols, berms, silt fer	nce,			
	gradient boundary sediment control, etc.)	the construction site in downstream locations?)				
8. Is there evidence of vehicles tracking	<u> </u>	THE CONSTRUCTION SILE IN COMPSTEAM IOCATIONS					
	<u> </u>	mpervious surfaces (roads, drives) that could be	e washed with SW	to a storm			
drain or water body?	or improve erosion control PMDs (tomporer	y stabilization, erosion blankets, mulch, vegeta	tad etrine rin ran	curface			
roughening, pipe slope drain, dust cor		y stabilization, erosion biankers, muich, vegeta	teu strips, rip rap,	Surface			
• •	, or improve sediment control BMPs (silt fend	e, check dams, fiber rolls, sediment trap/basin,	, inlet protection, w	addles,			
straw bails, curb cut-back, etc? 12. Is there a need to repair, maintain	or improve good housekeeping controls (cle	ean track out pad, sweeping, construction mate	erials managemen	t. litter/trash			
control, port-o-potties staked down, fu	eling areas, concrete wash out area, proper	curb ramps, spill prevention, etc)?		,			
		days without stabilization? (except snow or froz	zen ground)?				
14. Are there places where BMPs are	needed and should be installed or not neede		NAT				
Identify the problem and its location. If app		JE ACTIONS FOR SWPPP COMPLIA o be completed. However, only if qualified (e.g., you a		ld you be mand	lating sı	pecific i	BMPs t
		e date when corrections are made.					
Inspector, please list all applicable	SEV codes:						
		direction or supervision in accordance with a system	designed to assure ti	hat qualified pe	rsonnel	prope	rly
		ons who manage the system, or those persons directl that there are significant penalties for submitting fals		-			ormatic
Inspector: (Pri	nt Name)	(Title)	(Signature)		((Date)	-
(1	· · · · · · · · · · · · · · · · · · ·	V 7	(=:3::=:0))	
Operator:							
modified 8/12/10 (Prin	nt Name)	(Title)	(Signature)		((Date)	

(Attach additional sheets of narrative, pictures and checklists, as necessary)



ADDITIONAL COMMENTS AND CORRECTIVE ACTIONS FOR SWPPP COMPLIANCE



Site Name:		Date of Evaluation:	Page of
Site Address:			
	EPA Form 3560-	3 SEV Codes and D	Descriptions
DOR11	Discharge without a permit	BR19B	Failure to properly operate and maintain BMP's
DOR18	Failure to apply for a Notice of Termination	BR19A	Failure to properly install/implement BMP's
BOR12 BOC17	Failure to conduct inspections Failure to develop any or adequate SWPPP/SWMP	EOR16 AOR22	Failure to submit required report (non-DMR) Narrative effluent violation
BOC18	Failure to implement SWPPP/SWMP	DOR12	Failure to submit required permit information
BOR41	Failure to maintain records	AOR12	Numeric effluent violation
COR11	Failure to monitor	BOR42	Violation of a milestone in an order

WEEKLY VISUAL INSPECTION SOP

PREPARAT	ION	
		Identify "High Priority" facilities Map of location Become familiar with potential pollutants at the site
PROCESS		
		Look for evidence of spills at the site If a spill is found assess the general area to identify its source Whenever possible take photographs of the suspected illicit discharge
CLEAN-UP		
		Clean up spill immediately to prevent contact with precipitation or runoff Initiate spill response
DOCUMEN	TAT	ION
		Fill out Weekly High Priority Inspection Log for facility and mark that the weekly inspection has been completed
		If a deficiency was found make note on the Weekly High Priority Inspection Log and fill out the Note Log for that particular facility

Weekly High Priority Inspection Log

City Name: Deficiencies found Deficiencies found Deficiencies found Deficiencies found Deficiencies found Deficiencies found Date: Facility Name

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Note: 1) Enter Y or N for deficiencies found. If "Y" type of deficiency and corrective action taken must be documented on the Inspection note log

High Priority Facilities Weekly Inspection Report Form

Facility Name	Inspection Date	Inspector Name	Deficiency Identified	Corrective Actions Taken

QUARTERLY COMPREHENSIVE INSPECTION SOP

PREPARAT	ION	
		Identify "High Priority" facilities Map of location Become familiar with potential pollutants at the site
PROCESS		
		Look for evidence of spills at the site
		If a spill is found assess the general area to identify its source
		Whenever possible take photographs of the suspected illicit discharge
		Inspect all waste storage areas and dumpsters
		Inspect for leaks
		have repairs made immediately by responsible party
		Inspect vehicle maintenance and fueling areas
		Look for pollutant generating areas and inspect Material bandling areas
		Material handling areas
		Pollutant generating areas
CLEAN-UP		
		Clean up spill immediately to prevent contact with precipitation or runoff
		Initiate spill response
DOCUMEN ⁻	TAT	ION
		Fill out a quarterly comprehensive inspection sheet for each facility Document the inspection was complete on the Quarterly Comprehensive Log
		sheet along with the date it was completed

Quarterly Comprehensive Inspection Log

City Name:									
Facility Name	1 st Quarto	Date Complete	2 nd Quarto.	Date Complete	3rd Quarte.	Date complete	4 th Quarre.	Date Complex	ela.d.
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OTHER J-U-B COMPANIES



TRAINING SCHEDULE

Training Topic	Who	How Often	Paragraph
-Low impact development	-MS4 Engineers	Not specified	4.2.1.6
-Green infrastructure	-Development and plan review staff,	·	
-Post construction practices	-Land use planners		
-BMP's chose in the swmp	-Others		
IDDE Program	-All field staff	Annually	4.2.3.11
-Identification	-Office personnel		
-Investigation	·		
-Termination			
-Cleanup			
-Reporting			
-How to identify a spill			
-Improper disposal			
-Implementing a construction storm	Staff with following responsibilities:	Not specified	4.2.4.5
water program	-Implementing the construction storm		
-Permitting	water program		
-Plan review	-Permitting		
-Construction site inspections	-Plan review		
-Enforcement	-Construction site inspections		
	-Enforcement		
	-Third party inspectors		
Fundamentals of long-term storm water	All staff involve	Not specified	4.2.5.6
management through the use of	-In post-construction storm water		
structure and non-structural BMPs.	management		
	-Planning and review		
	-Inspections and enforcement		
Decreation and decimal History was ff	All staff	N -+:£:l	4.2.6
Preventing or reducing pollutant runoff	-All staff	Not specified	4.2.6
from all Permittee owned or operated facilities			
Use, storage, and disposal of chemicals	-Those responsible for handling chemicals	Not specified	4.2.6.4.1
-Importance of protecting water quality	All employees who have primary	Not specified	4.2.6.9
-Requirements of SWMP permit	construction, operation, or maintenance job		
-Operation and maintenance	functions that are likely to impact storm		
requirements	water quality		
-inspection procedures,	, ,		
-Ways to perform their job activities to			
prevent or minimize impacts to water			
quality			
-SOP's for the various Permittee-owned			
facilities			
-Procedures for reporting water quality			
concerns; including potential illicit			
discharges			
-Changes in procedures			
Illicit Discharge/Waste Disposal	Employees of owned or operated facilities	Not specified	4.2.1.5
- Equipment inspection			
- Storage of industrial materials			
- Disposal of waste			
- Management of dumpsters			
- Minimizing Salt/De-icing			
- On-site infiltration			
- Maintenance of parking lots			

Training Log

Date of Training	Description of Training	Signature

Dry Weather Screening Checklist/SOP

<u>Pre-ins</u>	pection Items
	Map Outfalls
	Develop outfall inspection priority schedule
	Proper equipment
	o Clear sampling jar
	 Map showing location
	 Visual monitoring report form
	o Camera
	o GPS unit?
Inspec	<u>tion</u>
	Check for dry weather discharge
	If discharge is present – pull sample
	Follow procedures on visual monitoring form
	Photo document findings
	If there is cause for concern move to inspection follow up procedures
Inspec	cion Follow-Up Procedures
	File any Photos
	Call health department and report findings 801-
	Trace discharge upstream by checking manholes – 1,000 foot intervals
	Find last manhole with any evidence of illicit discharge
	Look at surface improvements in the area to determine possible suspects
	If determination cannot be made from the surface investigations, then TV or smoke test line for
	unknown connections.

DRY WEATHER SCREENING AND VISUAL STORM WATER DISCHARGE EXAMINATION REPORT

Date of Examination:	_ Permit No. UTR
Outfall location or ID number:	
Nature of Discharge (i.e., runoff, land drain, irrigation	on or snowmelt)
Type of Monitoring:	
Date of last Rainfall Event:	Wet Weather Screening (Quarterly Min.)
	☐ Unable to collect sample due to adverse
	conditions or inadequate runoff.
<u>Visual Quality of Storm Water Discharge:</u> (circle	response)
At Time of Sampling:	After One Hour of Settling:
Color: clear brown green rust other:	Settled Solids: Yes / No
Odor: Yes / No	Suspended Solids: Yes / No
Clarity: Solids: Yes / No	Oil Sheen: Yes / No
Foam: Yes / No	
Other obvious indicators of storm water pollution:	
Probable sources of any observed storm water con	tamination:
Name of Examiner	Title
Signature	Date
Revised: 10-15-2010	

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES) MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) ANNUAL REPORT FORM

Reports are to be sent to:

Utah Division of Water Quality Attn: UPDES Municipal Storm Water Program 288 North 1460 West P.O. Box 144870 Salt Lake City, UT 84114-4870

Annual reports are due no later than three months from the end of the fiscal year for the reporting MS4. The following form is required and must be signed and certified in accordance with requirements in the MS4's permit under Part 1. of this form.

1. MS4 Information		
Weber County		
Name of MS4		
Curtis Christensen		
Name of Contact Person		
cchriste@co.weber.ut.us		
Email Address		
801-399-8374		
Telephone (including area code)		
2380 Washington Blvd. Ste. 240		
Mailing Address		
Ogden	<u>Utah</u>	<u>84401</u>
City	State	ZIP code
What is the current population of your MS4? 15	,280 from WFRC data	<u>a 2006</u>
What is the reporting period for this annual report	t? From Oct. 07	' to <u>Oct. 08</u>
Certification Statement:		
or supervision in accordance with a sy and evaluated the information submitt system, or those persons directly respo to the best of my knowledge and belie	ystem designed to ast ted. Based on my inconsible for gathering of, true, accurate, and	ttachments were prepared under my direction source that qualified personnel properly gathered aquiry of the person or persons who manage the general the information, the information submitted is, d complete. I am aware that there are luding the possibility of fine and imprisonment
Signature		
Name (printed)		_
Title		

2.	Water Quality Priorit	ies				
A.	Does your MS4 discharge to A list of draft, approved and J as in-progress TMDL water of http://www.waterquality.utah	pending (Total Maximum luality studies can be found	Daily Load) TMDLs		Yes ⊠ N	o
B.	If yes, identify each impaired whether the TMDL identifies			s been approv	red by EPA f	for each, and
Imp	paired Water	Impairment	Approve	d TMDL	MS4 Ideasource of	ntified as impairment
			☐ Yes	□ No	☐ Yes	□ No
			☐ Yes	□No	☐ Yes	□No
	<u> </u>		☐ Yes	□ No	☐ Yes	□No
C.	What specific sources of thes	e pollutants of concern are	targeted?			
D.	Do you have discharges to an defined in Utah Administrativ		, Category 1 or Categ	gory 2 as	⊠ Yes	□No
E.	Are you implementing addition	onal specific provisions to	ensure their continue	d integrity?	⊠ Yes	□ No
3.	Public Education and	d Public Participa	tion			
A.	Is your public education prog pollutants?	ram targeting specific poll	utants and sources of	those	⊠ Yes	□No
B.	If yes, what are the specific c	auses, sources and/or pollu	itants addressed by yo	our public edu	acation prog	ram?
	Litter, sediments,					
C.	Note specific successful <u>outce</u> education program during thi		, publications) fully o	or partially att	tributable to	your public
	Pineview cleanup day rem	oved 3 loads of litter from	m around pineview	reservoir		
D.	Do you have an advisory comstakeholders that provides reg			nd other	☐ Yes	⊠ No
4.	Construction					
A.	Do you have an ordinance or then a copy of the ordinance	1 1		or updated d	uring this re	porting period,
	Erosion and sediment control	•			⊠ Yes	□ No
	Other construction waste con	•			⊠ Yes	□ No
	Requirement to submit constr	ruction plans for review?			⊠ Yes	□ No
	MS4 enforcement authority?				⊠ Yes	□ No
B.	What is the threshold for conacre, etc. projects greater than	_	review? (e.g., all pro	jects, projects	disturbing §	greater than one

- C. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period?
 15 How many of these sites did you inspect this reporting period?
 15 not all with inspection reports
- D. How many active construction sites disturbing less than one acre were there_in your jurisdiction this reporting period?

 NA How many of these sites did you inspect this reporting period? NA

E.	How many	of these active sites did y	you inspect this reporti	ng period? see C above		
F.	•	how many times each, oy, monthly, etc.)?	or with what frequency	, were these sites inspected	Bi Monthly	
G.	Do you prio	ritize certain construction	on sites for more freque	ent inspections?	⊠Yes	□No
	If Yes, base	d on what criteria? Act	tive construction taki	ng place		
H. Identify which of the following types of enforcement actions you used during the reporting period for conactivities, indicate the number of actions, or note those for which you do not have authority:			construction			
	⊠ Yes	Notice of violation	# <u>2</u>	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	#			
I. J.	inspection r What are the	esults, and enforcement e 3 most common types	actions of active const of violations documen	sheet) to track the locations, ruction sites in your jurisdiction ted during this reporting period to be a seed during	d?	⊠ No
	SWPPP n	ot on site, silt fence in	nproperly installed, ir	nlet boxes not cleaned durin	ig constructio	<u>n</u>
5.	Illicit Dis	scharge Eliminat	ion			
A.	Have you co	ompleted a map of all ou	ntfalls and receiving wa	aters of your storm sewer syste	em? ⊠ Yes	□No
B.	Have you co	ompleted a map of all sto	orm drain pipes of stor	m sewer system?	⊠Yes	□ No
C.	How many	outfalls have you identif	ied in your system?	<u>26</u>		
D.	How many	of these outfalls have be	en screened for dry we	eather discharges? <u>all</u>		
E.	How many	of these have been scree:	ned more than once?	<u>all</u>		
F.	What is you	r frequency for screening	g outfalls for illicit dis	charges? twice yearly		
G.	•	updated during this repo	• •	discharges? (If the ordinance vopy of the ordinance should be		□No
H.	During this to you)? 0	1 01	nany illicit discharges/i	llegal connections have you di	scovered (or b	een reported
I.	Of those illi eliminated?		nnections that have been	en discovered or reported, how	many have be	een
6.	Storm W	ater Managemer	nt for Municipal	Operations		
		_	_	lent plan) been developed for:		
	All parks, b	all fields and other recre	eational facilities		☐ Yes	⊠ No
	All municip	al turf grass/landscape n	management activities		☐ Yes	⊠ No
	All municip	al vehicle fueling, opera	tion and maintenance	activities	☐ Yes	⊠ No

UP	DES MS4 Annual Report Form (cont)		4
	All municipal maintenance yards	☐ Yes	⊠ No
	All municipal waste handling and disposal areas	⊠ Yes	□ No
В.	Are storm water inspections conducted at these facilities?	☐ Yes	⊠ No
	If Yes, at what frequency are inspections conducted?		
C.	Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.)	☐ Yes	⊠ No
D.	Do you have a prioritization system for storm sewer system and permanent BMP inspections?	☐ Yes	⊠ No
E.	On average, how frequently are catch basins and other inline treatment systems inspected?	<u>2/yr</u>	
F.	On average, how frequently are catch basins and other inline treatment systems cleaned out/n	maintained?	2/yr
G.	Do municipal employees in all relevant positions and departments receive comprehensive training on storm water management?	⊠ Yes	□No
H.	If yes, do you also provide regular updates and refreshers?	⊠ Yes	□No
	If so, how frequently and/or under what circumstances? yearly as part of conferences		
_			
7 .	Post-Construction Storm Water Management in New Developm	ent and	
	Redevelopment		
A.	Do you have an ordinance or other mechanism to require:		
	Site plan reviews of all new and re-development projects?	⊠ Yes	□ No
	Maintenance of storm water management controls?	☐ Yes	⊠ No
	Retrofitting?	☐ Yes	⊠ No
В	What is the threshold for new/redevelopment storm water plan review? (e.g., all projects, prothan one acre, etc.)	ojects distur	bing greater
C.	Do you have either design standards or performance standards for new and re-development (at least one acre and larger) that are required to be met?	⊠ Yes	□No
D.	Have you adopted design standards/performance measures for new/redevelopment projects?	⊠ Yes	□No
E.	Do these design standards/performance measures 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 stormwater management stand http://www.co.weber.ut.us/wiki/index.php/Municipal_BMPs	lards can be	found.
G.	How many development and redevelopment project plans were reviewed this year? 12		
Н.	How many were approved? $\underline{3}$		
I.	How many permanent storm water management practices/facilities were inspected? 2		
J.	How many were found to have inadequate maintenance? $\underline{2}$		
K.	Of those, how many were notified and remedied within 90 days? (If window is different than	1 90 days, p	lease specify)
	modifications are being made or were made as weather permitted		

atabase, spreadsheet) to	o track post-construction	☐ Yes	⊠ No				
(as relevant) have acce	ess to this tracking system?	☐ Yes	⊠ No				
lement the requirement	s of your MS4 UPDES peri	mit and SV	VMP this past				
What is next year's budget for implementing the requirements of your MS4 UPDES permit and SWMP? Not a line item							
echanism for your storn	n water program?	☐ Yes	⊠ No				
fees), and what is the a	annual revenue derived from	n this mech	nanism?				
	Amount \$	_					
	Amount \$						
	er program (specifically for onsibilities that dovetail with other entities?	•	•				
ponsibility ic outreach	Your Oversight/Account We provide materials and programs	ability Me	chanism				
ss							
frequency? Not that the cics for the overall programpervious cover in the	e watershed, indicators of in	ls for indiv roinverteb	vidual BMPs rate				
Began Tracking			Number of				
(year)	Frequency	_	Locations				
2003	Weekly April–Septem	ıber	20				
,	e impervious cover in the impe	e impervious cover in the watershed, indicators of integration if necessary) Began Tracking (year) Frequency	Began Tracking (year) Frequency				

B. What environmental quality trends have you documented over the duration of your storm water program? (If you have reports or summaries, you can either attach them electronically, or provide the URL to where they may be found on the Web.) Not available

N:\Rthiele\annual report form.doc 08/26/2008

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						
Weber County Corporation	ı					
Name of MS4						
Curtis	Christensen					
Name of Contact Person (First)	(Last)		(T	itle)		
(801) 399-8374	cc	hriste@co.w	veber.ut	us		
Telephone (including area code)	Em	ail				
2380 Washington Blvd., Su	uite 240					
Mailing Address						
Ogden		<u>UT</u>	8	4401_		
City		State	ZI	P code		
What size population does your M	MS4 serve? 15,280 (2006)	UPDES nut	mber			
What is the reporting period for t	his report? (mm/dd/vvvv)	From 10/0	1/2008	to 10	/01/2009	
	1 ()		,			
2. Water Quality Prioritie	es					
A. Does your MS4 discharge to	waters listed as impaired on	a state 303(d)	list?	{	☐ Yes 🔽	No
B. If yes, identify each impaired the TMDL assigns a wasteld necessary.	d water, the impairment, who bad allocation to your MS4. U					
Impaired Water	Impairment		Approved	1 TMDL	TMDL assign	ns WLA to MS4
			☐ Yes	□ No	☐ Yes	☐ No
			☐ Yes	□ No	☐ Yes	☐ No
			☐ Yes	☐ No	☐ Yes	☐ No
			☐ Yes	☐ No	☐ Yes	☐ No
-			☐ Yes	☐ No	☐ Yes	□ No
			☐ Yes	□ No	☐ Yes	□ No
			☐ Yes	□ No	☐ Yes	□ No
			☐ Yes	☐ No	☐ Yes	□ No
C. What specific sources contri	ibuting to the impairment(s) a	are you targetin	ng in your	storm wat	er program?	
D. Do you discharge to any hig waters, or other state or fede		, Tier 3, outsta	nding nati	ıral resour	ce	□ No
E. Are you implementing addit	• .	nsure their cor	ntinued int	egrity?	✓ Yes	□ No

3.	Public Ed	lucation and Public	Particip	pation		
A.	Is your pub	lic education program targ	geting spec	ific pollutants and sources of those pollutants?	✓ Yes	□ No
В.	If yes, what	are the specific sources a	nd/or pollu	atants addressed by your public education progra	ım?	
	Litter, se	diments				
C.				ified reduction in fertilizer use; NOT tasks, ever program during this reporting period.	ıts, publicat	ions) fully
	Pineview	cleanup day remove	d 1 dump	truck load of litter from around Pinevie	w reservo	ir
D.	•	e an advisory committee of that provides regular inp		dy comprised of the public and other storm water program?	☐ Yes	☑ No
E.	Do you belo	ong to a storm water coali	tion or othe	er advisory committee? If yes, describe:	✓ Yes	☐ No
	Weber Co	ounty Stormwater Co	alition, U	SWAC		
	0	4:				
	Construc		. 1.7	ant automorphism a		
A.	-	e an ordinance or other re I sediment control require		ecnamsm supulating:	✓ Yes	□ No
		ruction waste control require			✓ Yes	□ No
		nt to submit construction p		view?	✓ Yes	□ No
	•	ement authority?	51 4 110 101 10		✓ Yes	□No
В.		e written procedures for:				
	•	construction plans?			☐ Yes	🛮 No
	Performing	inspections?			☐ Yes	☑ No
	Responding	g to violations?			☐ Yes	No
C.				ter plan review (e.g., all projects, projects distur	bing greater	than
	one acre, et	c.)? Projects greater the	an 1 acre	····		
D.	Identify the	number of active constru	ction sites	≥ 1 acre in operation in your jurisdiction at any	time during	the
	reporting p	eriod. <u>13</u>				
E.	How many	of the sites identified in 4	.D did you	inspect during this reporting period? 4		
F.	Identify the period. n/a		ction sites	< 1 acre in operation in your jurisdiction at any	time during	the reporting
G.	How many	of the sites identified in 4	.F did you	inspect during this reporting period? n/a		
Н.	-			your program conducts construction site inspec	tions.	
	-			poradic and very short term on most sites		10.)
I.		· · ·		nore frequent inspections?	✓ Yes	
	• •	ed on what criteria? Activ				
J.	Identify wh	ich of the following types	of enforce	ement actions you used during the reporting peri te those for which you do not have authority:	od for const	ruction
	☐ Yes	Notice of violation	# 0	No Authority □		
	☐ Yes	Administrative fines	# 0	No Authority □		
	☐ Yes	Stop Work Orders	# 0	No Authority □		
	☐ Yes	Civil penalties	# 0	No Authority □		
	□ Yes	Criminal actions	# 0	No Authority □		
	☐ Yes	Administrative orders	# 0	No Authority □		
	☐ Yes	Other		#		

K.				preadsheet) to track the locations, construction sites in your jurisdiction?	☐ Yes	☑ No
L.	What are t	he 3 most common types	of violations doc	numented during this reporting period?		
	Silt fenc	e installed improperly,	SWPPP no on	site or not easily accessible, inlet box	ces not cle	aned_
M.	How often	do municipal employees	receive training	on the construction program? Annually		
5	Illicit Dis	scharge Elimination				
		•		ing waters of your storm sewer system?	✓ Yes	□ No
В.	<u>-</u>	•		and other conveyances in the storm sewer	✓ Yes	□ No
C.	Identify th	e number of outfalls in yo	ur storm sewer s	ystem. <u>26</u>		
D.	Identify th	e number of Class V injec	tion wells in you	ır jurisdiction		
E.	Do you ha	ve documented procedure	s, including frequency	uency, for screening outfalls?	☐ Yes	∠ No
F.	Of the out	falls identified in 5.C, how	many were scre	eened for dry weather discharges during the	is reporting	period?
G.	Of the out	falls identified in 5.C, how	many have been	n screened for dry weather discharges at ar	ny time sinc	e you obtained
	MS4 perm	nit coverage? 26				
Н.	What is you	• •	g outfalls for illic	cit discharges? Describe any variation base	d on size/ty	pe.
I.	Do you ha		egulatory mecha	nism that effectively prohibits illicit	✓ Yes	□ No
J.	Do you ha	ve documented procedure	s for tracing and	removing an illegal discharge?	☐ Yes	✓ No
K.	•	ve an ordinance or other recording the contraction and/or recording the contraction and/or recording the contraction and contr	•	nism that provides authority for you to ressing illicit discharges?	✓ Yes	□ No
L.	During this	s reporting period, how m	any illicit discha	rges/illegal connections have you discover	ed? 0	
M.	Of those il	llicit discharges/illegal con	nections that ha	ve been discovered or reported, how many	have been 6	eliminated?
N.				t actions you used during the reporting perich you do not have authority:	iod for illici	t discharges,
	☐ Yes	Notice of violation	# 0	No Authority □		
	☐ Yes	Administrative fines	# <u>0</u>	No Authority □		
	☐ Yes	Stop Work Orders	# <u>0</u>	No Authority □		
	☐ Yes	Civil penalties	#_0	No Authority □		
	☐ Yes	Criminal actions	# 0	No Authority □		
	☐ Yes	Administrative orders	# 0	No Authority □		
	☐ Yes	Other				
O.	How ofter	n do municipal employees	receive training	on the illicit discharge program? annually	V	

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 facil	ities and other open spaces	☐ Yes	✓ No
	All municipal construction activities, including tho	se disturbing less than 1 acre	☐ Yes	☑ No
	All municipal turf grass/landscape management ac	tivities	☐ Yes	☑ No
	All municipal vehicle fueling, operation and mainte	enance activities	☐ Yes	✓ No
	All municipal maintenance yards		Yes	☐ No
	All municipal waste handling and disposal areas		Yes	☐ No
	Other			
В.	Are storm water inspections conducted at these fac	ilities?	☐ Yes	☑ No
C.	If Yes, at what frequency are inspections conducted	d?		
D.	List activities for which operating procedures or m developed (e.g., road repairs, catch basin cleaning)		er managemen	t have beer
E.	Do you prioritize certain municipal activities and/o	or facilities for more frequent inspection?	☐ Yes	✓ No
F.	If Yes, which activities and/or facilities receive mo	st frequent inspections?		
G.	How are you disposing of catch basin decant water	and solid material?		
Н.	Are municipal vehicles washed into an approved w	rastewater disposal system?	✓ Yes	□ No
I.	Do all municipal employees and contractors overse water-related activities receive comprehensive train		m 🔽 Yes	□No
J.	If yes, do you also provide regular updates and refi	reshers?	✓ Yes	☐ No
K.	If so, how frequently and/or under what circumstar	rces? Yearly as part of conferences		
7.	Long-term (Post-Construction) Storm	Water Measures		
A.	Do you have an ordinance or other regulatory meel	nanism to require:		
	Site plan reviews for storm water/water quality of a	all new and re-development projects?	Yes	☐ No
	· Long-term operation and maintenance of storm wa	ter management controls?	☐ Yes	✓ No
	Retrofitting to incorporate long-term storm water n	_	☐ Yes	No
В.	If you have retrofit requirements, what are the circ	umstances/criteria?		
C.	What are your criteria for determining which new/n projects disturbing greater than one acre, etc.) Projects disturbing greater than one acre, etc.)		review (e.g.,	all projects
D.	Do you require water quality or quantity design sta directly or by reference to a state or other standard re-development?	<u>*</u>	 ✓ Yes	□ No
E.	Do these performance or design standards require t	hat pre-development hydrology be met for	:	
	Flow volumes	☑ Yes □ No		
	Peak discharge rates	✓ Yes ☐ No		
	Discharge frequency	✓ Yes ☐ No		
	Flow duration	☐ Yes ✓ No		

http://www.co.weber.ut.us/wiki/index.php/Municipal_BMPs						
http://www.co.weber.ut.us/wiki/index.php/wullicipai_bivii 3						
How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection? 0						
How many of the plans identified in 7.G were approved? 0						
How many privately owned permanent storm water management practices/facilities were inspected during the reporting period? 0						
How many of the practices/facilities identified in I were found to have inadequate maintenance? 0						
How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections? As-Needed						
Do you have authority to take enforcement action for failure to properly operate and maintain Yes V No storm water practices/facilities?						
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						
Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction Yes No BMPs, inspections and maintenance?						
Do all municipal departments and/or staff (as relevant) have access to this tracking system? ☐ Yes ☑ No						
How often do municipal employees receive training on the post-construction program? annually						
Program Resources						
What was the annual expenditure to implement MS4 permit requirements this reporting period? \$20,000						
What is next year's budget for implementing the requirements of your MS4 NPDES permit? not a line item						
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: General Fund Amount \$ 20,000 OR %						
Source: Amount \$ OR %						
Source: Amount \$ OR %						
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)? 1 Full time equivalent						
Do you share program implementation responsibilities with any other entities? ✓ Yes No						
Entity Activity/Task/Responsibility Your Oversight/Accountability Mechanism						

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.

Began Tracking	Frequency	Number of Locations
(year)	rrequency	Locations
		,
	Began Tracking (year)	

В.	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.

not available

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.

This was an interesting year for construction as you know. There were 13 different (4.D) sites that were active at some time durning the reporting period, but for most of the reporting period the sites were not being activly worked on. Many of the sites have been over grown with native weeds by the time we visited them, and there was no inspeciton report created. There were only 4 sites (4.E) that remained active for an extended amount of time. Thus there were only the 4 sites that have inspeciton reports for (4.E).

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.

Name of Certifying Official, Title

9-29-09

Yes

Date (mm/dd/yyyy)

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						
Weber County Corporation						
Name of MS4						_
Curtis	Christensen					
Name of Contact Person (First)	(Last)		T)	itle)		
(801) 399-8374	CC	hriste@co.	weber.ut.	us		****
Telephone (including area code)	Em	ail				
2380 Washington Blvd., Suit	te 240					
Mailing Address						
Ogden	-	UT	8	4401		
City		State	ZI	P code		
What size population does your M	S4 serve? 15,280 (2006)	UPDES nu	ımber			_
What is the reporting period for thi	is report? (mm/dd/yyyy)	From <u>07/</u>	01/2009	to 06	/30/2010	
	-					
2. Water Quality Priorities	3					
A. Does your MS4 discharge to v	waters listed as impaired on	a state 303(d	l) list?	[Yes 🔽 N	lo
B. If yes, identify each impaired the TMDL assigns a wasteloa necessary.						
Impaired Water	Impairment		Approved	1 TMDL	TMDL assign	s WLA to MS4
			☐ Yes	☐ No	☐ Yes	☐ No
			☐ Yes	□ No	☐ Yes	☐ No
			☐ Yes	☐ No	☐ Yes	□ No
	<u> </u>		☐ Yes	☐ No	☐ Yes	☐ No
			☐ Yes	☐ No	☐ Yes	☐ No
		·	☐ Yes	☐ No	☐ Yes	□ No
			☐ Yes	☐ No	☐ Yes	☐ No
			☐ Yes	☐ No	☐ Yes	□ No
C. What specific sources contrib	uting to the impairment(s)	are you target	ing in your	storm wat	er program?	
D. Do you discharge to any high- waters, or other state or federa		, Tier 3, outst	anding nat	ural resour	ce 🛭 Yes	□No
E. Are you implementing addition	- ,	nsure their co	ontinued in	tegrity?	✓ Yes	□No

3.	Public E	ducation and Public	c Participation	1		
				lutants and sources of those pollutants? ddressed by your public education prog	-	□ No
	•	ediments	•		,	
C.				duction in fertilizer use; NOT tasks, evum during this reporting period.	ents, publicat	ions) fully
	Pineviev	v cleanup day remove	ed 1 dump truck	load of litter from around Pinev	iew reservo	ir
D.		ve an advisory committee rs that provides regular in		prised of the public and other water program?	☐ Yes	✓ No
E.	Do you bel	ong to a storm water coal	ition or other advis	sory committee? If yes, describe:	✓ Yes	☐ No
	Weber C	ounty Stormwater Co	alition, USWAC			
4.	Construc	etion				
A.	Do you hav	ve an ordinance or other re	egulatory mechanis	sm stipulating:		
	Erosion and	d sediment control require	ements?		✓ Yes	□ No
	Other cons	truction waste control req	uirements?		Yes	☐ No
	Requireme	nt to submit construction	plans for review?		✓ Yes	□ No
	MS4 enfor	cement authority?			☐ Yes	🛮 No
В.	•	ve written procedures for:				
	_	construction plans?			☐ Yes	☑ No
	_	g inspections?			☐ Yes	☑ No
	•	g to violations?			☐ Yes	☑ No
C.			=	review (e.g., all projects, projects distr	urbing greater	than
ъ		tc.)? Projects greater th			1	.1
D.			iction sites ≥ 1 acre	e in operation in your jurisdiction at an	y time during	the
	reporting p	eriod. 5				
E.	How many	of the sites identified in 4	D did you inspect	t during this reporting period? 5		
F.	Identify the period. n/a		ection sites < 1 acre	e in operation in your jurisdiction at an	y time during	the reporting
G.	How many	of the sites identified in 4	I.F did you inspect	during this reporting period? n/a		
H.	Describe, o	on average, the frequency	with which your p	rogram conducts construction site inspe	ections.	
	As-Need	led (Activity on most s	sites was spora	dic and very short term on most	sites)	
I.	Do you pri	oritize certain construction	n sites for more fre	equent inspections?	✓ Yes	□ No
	If Yes, bas	ed on what criteria? Acti	ve counstructio	n taking place		
J.				ctions you used during the reporting pe for which you do not have authority:	riod for const	ruction
	☐ Yes	Notice of violation	# <u>0</u>	No Authority □		
	☐ Yes	Administrative fines	# 0	No Authority □		
	☐ Yes	Stop Work Orders	# 0	No Authority □		
	☐ Yes	Civil penalties	# 0	No Authority □		
	□ Yes	Criminal actions	# 0	No Authority □		
	☐ Yes	Administrative orders	# 0	No Authority □		
	☐ Yes	Other	" <u></u>	#		
	∟ ால	Outor				

K.				spreadsheet) to track the locations, e construction sites in your jurisdiction?	☐ Yes	☑ No
L.	What are the	he 3 most common types of	of violations do	cumented during this reporting period?		
	Silt fenc	e installed improperly,	SWPPP no or	n site or not easily accessible, inlet box	ces not cle	aned
M.	How often	do municipal employees	receive training	on the construction program? Annually		
5	Illicit Dis	scharge Elimination				
			tfalls and receiv	ring waters of your storm sewer system?	✓ Yes	□ No
	-			and other conveyances in the storm sewer	☐ Yes	☑ No
C.	Identify the	e number of outfalls in yo	ur storm sewer	system. 26		
D.	Identify th	e number of Class V injec	tion wells in yo	ur jurisdiction. 11		
E. F.	•		, ,	quency, for screening outfalls? reened for dry weather discharges during thi	☐ Yes is reporting	☑ No period?
G.	Of the out	falls identified in 5.C, how it coverage? 26	many have bee	en screened for dry weather discharges at ar	ny time sinc	e you obtained
Н.	What is yo	our frequency for screening	g outfalls for ill	icit discharges? Describe any variation base	d on size/ty	pe.
I.	Do you had discharges		egulatory mech	anism that effectively prohibits illicit	✓ Yes	□ No
J.	Do you ha	ve documented procedure	s for tracing and	l removing an illegal discharge?	☐ Yes	✓ No
K.				anism that provides authority for you to dressing illicit discharges?	✓ Yes	□ No
L.	During this	s reporting period, how m	any illicit disch	arges/illegal connections have you discover	ed? 2	
M.	Of those il	licit discharges/illegal cor	nections that ha	ave been discovered or reported, how many	have been 6	eliminated?
N.				nt actions you used during the reporting periods you do not have authority:	iod for illici	t discharges,
	✓ Yes	Notice of violation	# 2	No Authority □		
	☐ Yes	Administrative fines	#_0	No Authority □		
	☐ Yes	Stop Work Orders	# 0	No Authority □		
	☐ Yes	Civil penalties	#_0	No Authority □		
	☐ Yes	Criminal actions	#_0	No Authority □		
	☐ Yes	Administrative orders	#_0	No Authority □		
	☐ Yes	Other		#		
Ο.	How ofter	do municipal employees	receive training	on the illicit discharge program? annually	٧	

6. Storm Water Management for Municipal Operations

A.	Have storm water pollution prevention plans (or an ed	quivalent plan) been deve	eloped for:		
	All public parks, ball fields, other recreational facilities	es and other open spaces		☐ Yes	✓ No
	All municipal construction activities, including those	disturbing less than 1 ac	re	☐ Yes	☑ No
	All municipal turf grass/landscape management activ	ities		☐ Yes	✓ No
	All municipal vehicle fueling, operation and maintena	ance activities		☐ Yes	☑ No
	All municipal maintenance yards			Yes	☐ No
	All municipal waste handling and disposal areas			☐ Yes	✓ No
	Other				
В.	Are storm water inspections conducted at these facility	ties?		Yes	☐ No
C.	If Yes, at what frequency are inspections conducted?	Quarterly (When it rai	ins)		
D.	List activities for which operating procedures or mandeveloped (e.g., road repairs, catch basin cleaning). catch basin inspections	agement practices specif	ic to storm water r	managemen	t have beer
E.	Do you prioritize certain municipal activities and/or f	facilities for more frequen	nt inspection?	☐ Yes	☑ No
F.	If Yes, which activities and/or facilities receive most	frequent inspections?			
G.	How are you disposing of catch basin decant water an	nd solid material?			
	Evaporation, infiltration, solid waste disposal				
H.	Are municipal vehicles washed into an approved was	tewater disposal system?		Yes	☐ No
I.	Do all municipal employees and contractors overseein water-related activities receive comprehensive training			∠ Yes	☐ No
J.	If yes, do you also provide regular updates and refres	hers?		✓ Yes	☐ No
K.	If so, how frequently and/or under what circumstance	es? Yearly as part of c	onferences		
7.	Long-term (Post-Construction) Storm W	ater Measures			
A.	Do you have an ordinance or other regulatory mechan	nism to require:			
	Site plan reviews for storm water/water quality of all	new and re-development	t projects?	Yes	☐ No
	Long-term operation and maintenance of storm water	management controls?		☐ Yes	🛭 No
	Retrofitting to incorporate long-term storm water man	-		☐ Yes	✓ No
В.	If you have retrofit requirements, what are the circum	nstances/criteria?			
C.	What are your criteria for determining which new/re-	development storm wate	r plans you will re	view (e.g.,	all projects
	projects disturbing greater than one acre, etc.) Projects	ects disturbing more the	an 1 acre.		
D.	Do you require water quality or quantity design stand directly or by reference to a state or other standard, be re-development?			✓ Yes	□ No
E.	Do these performance or design standards require that	t pre-development hydro	ology 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.co.weber.ut.us/wiki/index.php/Municipal_BMPs			
G.	How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection? 0			
Н.	How many of the plans identified in 7.G were approved? n/a			
I.	How many privately owned permanent storm water management practices/facilities were inspected during the reporting period? n/a			
J.	How many of the practices/facilities identified in I were found to have inadequate maintenance? n/a			
K.	How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections? As-Needed			
L.	Do you have authority to take enforcement action for failure to properly operate and maintain Yes INO storm water practices/facilities?			
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 Yes No BMPs, inspections and maintenance?			
O.	Do all municipal departments and/or staff (as relevant) have access to this tracking system?			
Р.	How often do municipal employees receive training on the post-construction program? annually			
3.	Program Resources			
A.	What was the annual expenditure to implement MS4 permit requirements this reporting period? \$20,000			
В.	What is next year's budget for implementing the requirements of your MS4 NPDES permit? not a line item			
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: General Fund Amount \$ \$20,000 OR %			
	Source: Amount \$ OR %			
	Source: Amount \$ OR %			
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)? 0			
E.	Do you share program implementation responsibilities with any other entities?			
	Entity Activity/Task/Responsibility Your Oversight/Accountability Mechanism			
	Weber County Training and public outreach We provide material and some outreach programs			

9. Evaluating/Measuring Progress

Α.	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
Other agencies e.g. Weber Basin monitoring	,	• •	

В.	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.

not available

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.

Most of the construction sites that had NOIs taken out on them have not been under construction at all, and have been re-vegitated.

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.

X Yes

Name of Certifying Official, Title

Date (mm/dd/vvvv)

Problems with Pollutant and Source of Pollutant

Parameter	Problems with Pollutant	Possible Source of Pollutant
BOD₅		WWTPhuman waste & food residue, food processing, paper industries, Ag runoffanimal droppings, crop residues
COD		
Nitrate as N	Can cause oxygen depletion	
Nitrite as N	Can cause oxygen depletion	
Total Ammonia Nitrogen (NH₃)		
Total Kjeldahl Nitrogen (TKN)		
Total Nitrogen (TN)		Fertilizers
Phosphate, Ortho as PO4		Tertifizers
Total Phosphorus (TP)	Cause algae growth, which when they die exert a high BOD demand	WWTPphosphorus based detergents, AgriculturalFertilizerrunoff, food processing waste
рН		Industry,
Hardness (as CaCO ₃)		
Total Dissolved Solids (TDS)		Saltsdeicing agent for roads in winter, industries
Total Suspended Solids (TSS)		Mining, logging, construction activity
Calcium, Total		
Magnesium, Total		
Cadmium, Total	Bioaccumulates in tissues, kidney damage, chronic effects	Sewage sludge applied to land, phosphate fertilizers
Copper, Dissolved		WWTP, industry, architectural copper, vehicle brake pads, coppercontaining pesticides, and marine antifouling coatings; primary discharger might vary with the rainy season
Lead, Dissolved	Bioaccumulates in tissues, chronic effectsanaemia, neuropsychological disorders	Cars, mining
Zinc, Dissolved	Can be toxic at high levels to organisms	Tire wear, industries
E. coli	Is used as an indicator of pathogens	Animals and people
Oil & Grease		Restaurants, cars, asphalt surfaces
Water Temperature	Alters plant and animal eco system	High temperatures from industry
P 300	Affects vegetative growth, ability of	Sedimenteroded soil particles,
Turbidity	light to transmit through water	bacteria
Conductivity		
Dissolved Oxygen		
Dissolved Oxygen, Saturated		
Oxidation Reduction Potential		

The landuses for each basin are based on outfall catchment, and do not reflect overland flow from non-connected areas. The following trends are noted for the receiving water EMC results:

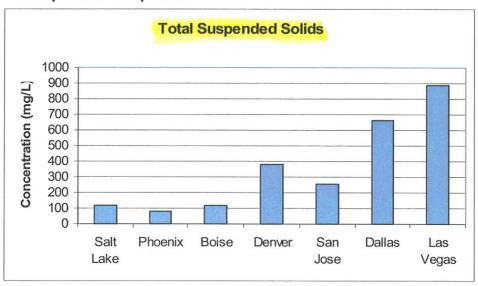
- The EMC for the Big Cottonwood Creek basin is lower compared with the other receiving waterbodies. This includes all of the parameters, with the exception of metals in 2008.
 The majority of the landuse in this basin is residential.
- The EMC for the Parley's Creek basin was higher than the other receiving waterbodies for total suspended solids and lead. The landuse in this basin consists of mixed and residential mixed.
- Total suspended solid levels were fairly consistent from 2005 to 2008.
- It is noted that an increase in many constituents occurred in 2008. This is likely due to the fact that the EMC methodology changed in 2008, as discussed in Section 4.2.

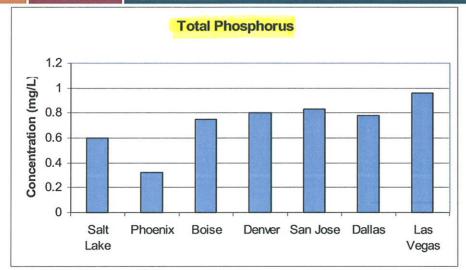
4.2.3 Municipality Event Mean Concentration Comparison

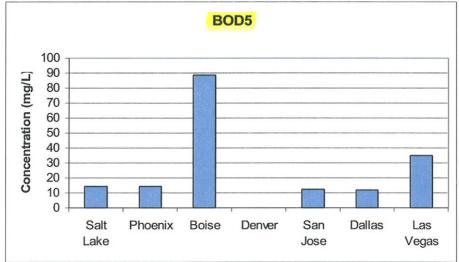
A comparison of EMCs was conducted to determine how the Salt Lake County EMC corresponds with other municipalities with similar dry climates. The municipalities chosen for the comparison were Phoenix, Arizona; Boise, Idaho; Denver, Colorado; San Jose, California; Dallas, Texas and Las Vegas, Nevada (The Practice of Watershed Protection: Article 66, 2000). While it is recognized that this data is dated, it provides a good method of comparison.

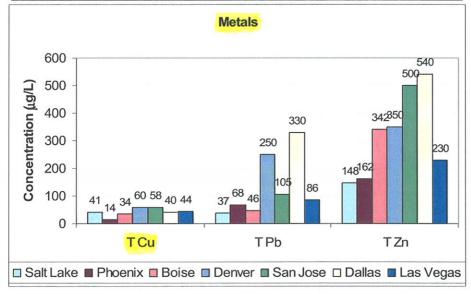
Figure 4-6 shows the breakdown of the comparison with Salt Lake County EMCs. The graphs indicate that Salt Lake County's EMCs are typically lower in comparison with the other municipalities.











each representative land use in the instances where a station was not sampled. This results in a more accurate estimate of EMCs.

TABLE 4-2 Unincorporated Salt Lake County Event Mean Concentration Summary

Constituent	2000 EMC (mg/L)	2005 EMC (mg/L)	2008 EMC ¹ (mg/L)
Total Suspended Solids	141	106	117
Total Phosphorus	0.63	0.57	0.6
BOD₅	13	12.1	14.4
Total Copper	0.031	0.036	0.041
Total Lead	0.037	0.033	0.037
Total Zinc	0.198	0.136	0.148

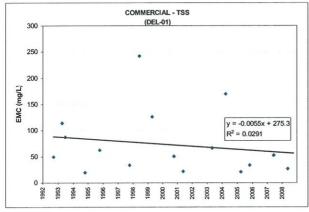
¹ Methods for EMC calculations were modified for 2008

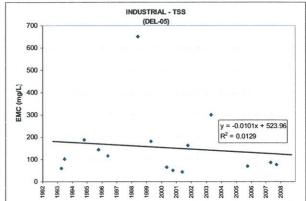
4.2.1 Outfall Event Mean Concentration Trends

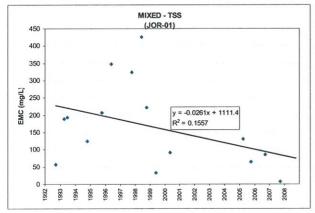
Event Mean Concentrations (EMCs) were calculated for each outfall, representing an EMC for specific landuses. This analysis provides information regarding the effect of landuse within a basin on stormwater quality. A trend analysis for each constituent for each outfall EMC is presented in Figure 4-3.

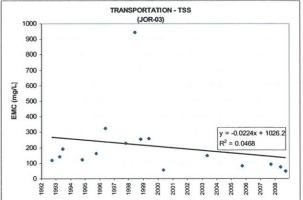
A linear regression analysis was performed in order to ascertain if there was an historical trend in outfall event concentrations. In the linear regression analysis, the outfall event concentration was plotted against date of the sampling event and the best-fit line was determined using the least-squares error method. The trend is shown by the slope of the best-fit line (negative slope indicates decreasing concentration and positive slope indicates increasing concentration) and the strength of the trend is measured by the correlation coefficient [R²] (the closer the value is to 1, the greater the strength of the correlation).

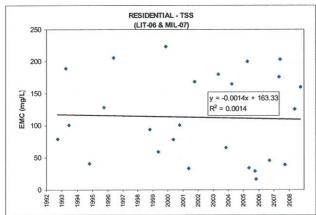
FIGURE 4-3 Outfall EMC Trends

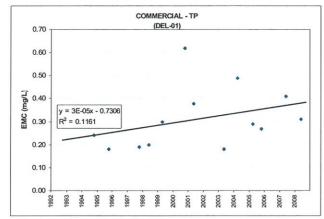


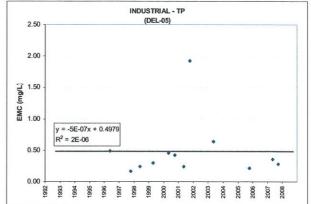


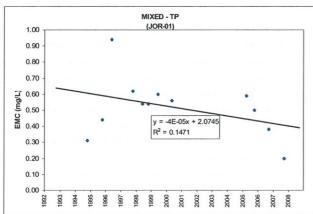


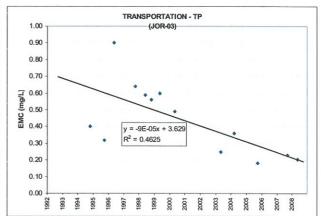


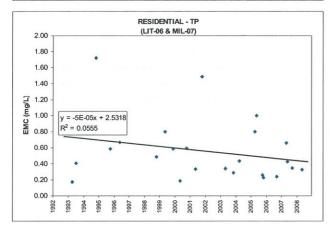




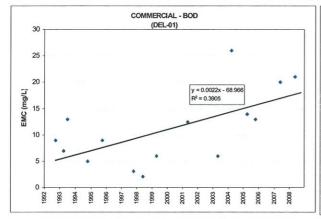


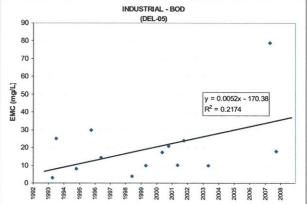


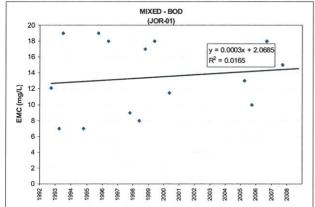


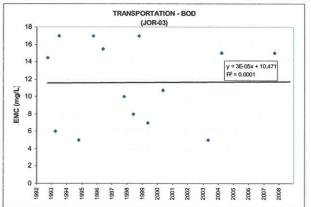


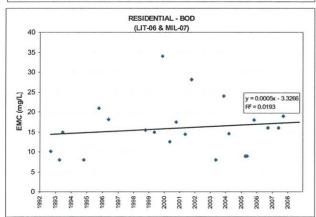
STORMWATER DATA ANALYSIS

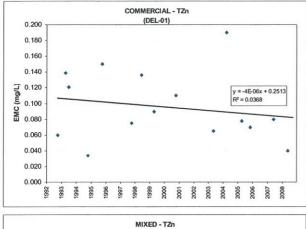


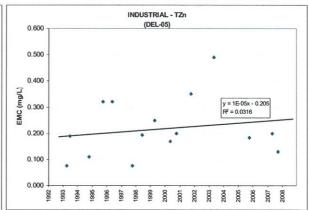


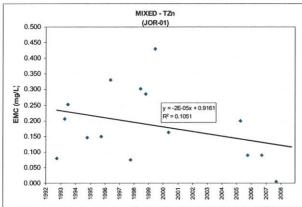


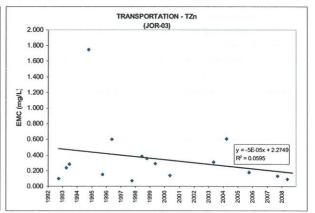


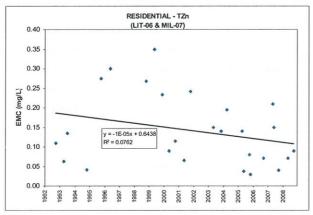












The results of this trend analysis varied; however, the following was noted:

- TSS showed a general trend downwards for all landuses; however, the strength of the trend was very poor (R² between 0.001 and 0.156)
- Total Phosphorus trend varied, with an upward trend for commercial landuse and downward trend for mixed, transportation and residential. The strength of the trend was generally poor, with the exception of transportation, which was fair.
- BOD₅ was generally upwards, particularly for the commercial landuse, while transportation and residential landuses were flat.

- Total Suspended Solids
- Total Phosphorus
- Total Cadmium
- Total Copper
- Total Lead
- Total Zinc

The complete set of sample results is available in the pollutograph memorandums (Salt Lake County, 2005 and 2006) and at the Engineering Division.

5.2 OBSERVATIONS

It is difficult to make conclusions due to the data variation. However, the following trends were observed (refer to Appendix C for graphs of the results):

2005

<u>Phosphorus</u> - The data from JOR-03 indicates this initial loading (during the first 1 ½ hour of the storm). The concentration then decreases and increases again with the second wave of precipitation. DEL-05 and MIL-07 did not exhibit a significant first flush response.

<u>TSS</u> - Similar trends were noticed for TSS; first flush, followed by a second increase in concentration with the second wave of precipitation at JOR-03 and MIL-07.

<u>Phosphorus/TSS</u> - A simple comparison was conducted for phosphorus and TSS levels for the three stations. The phosphorus and TSS concentrations showed similar trends for DEL-05 and JOR-03. No obvious trend could be determined for MIL-07.

Total Metals

Cadmium - The majority of the data for cadmium was below the detection level (0.0005 mg/L), and did not fluctuate with the flow. (The lab has indicated that accuracy decreases with concentrations near the detection level.)

Copper - Copper levels did not fluctuate with the flow with the exception of the second wave of precipitation at JOR-03.

Lead - Lead levels indicated a first flush, followed by an increase with the second wave of precipitation at JOR-03 and MIL-07.

Zinc - Zinc concentrations followed a similar trend to Lead in that a first flush is observed, followed by another increase in concentration with the second wave of precipitation at JOR-03 and MIL-07.

2006

<u>Phosphorus</u> - A first flush of phosphorus was indicated at stations LIT06 and MIL07. JOR01 did not exhibit a first flush.

<u>TSS</u> – Similar trends were noticed for TSS, with a slight first flush at JOR01.

<u>Phosphorus/TSS</u> - A simple comparison was conducted for phosphorus and TSS levels for the three stations. This comparison indicates a relationship between TSS and phosphorus, particularly in stations LIT06 and MIL07.

Total Metals

Cadmium - The majority of the data for cadmium was below the detection level (0.005 & 0.01 mg/L), and did not fluctuate with the flow. (The lab has indicated that accuracy decreases with concentrations near the detection level.)

Copper - The majority of the data for copper at stations JOR01 and MIL07 was below the detection level. The copper concentrations at LIT06 indicated a definite first flush.

Lead - All of the sample results for lead were below the detection level.

Zinc - Zinc concentrations indicated a first flush, particularly at stations LIT06 and MIL07.

2008

<u>Phosphorus</u> - A first flush of phosphorus was not indicated, with the exception of LIT-06 on May 12, 2008. The results from the October storm were affected by high detection levels, and consequently are not of much value. The high detection level was due to the low volume of sample.

TSS - The results varied, with a slight first flush indicated in LIT-06 in May.

<u>Phosphorus/TSS</u> - A simple comparison was conducted for phosphorus and TSS levels for the three stations. This comparison indicates a relationship between TSS and phosphorus, particularly during the spring storms, and at MIL07 during the fall storm.

Total Metals

Cadmium - The majority of the data for cadmium was below the detection level (0.005, 0.01 & 0.025 mg/L). (The lab has indicated that accuracy decreases with concentrations near the detection level.)

Copper – Results for copper varied, not showing a strong trend.

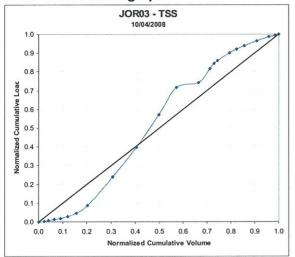
Lead – The majority of the sample results for lead were below the detection level.

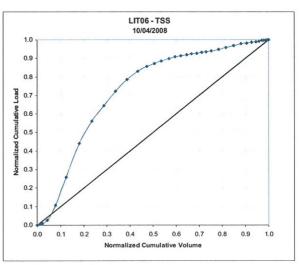
Zinc – The results for zinc were also varied, however, a minor trend indicating a relationship between flow and concentration is noted (JOR-03 & LIT-06 10/4/08; LIT-06 5/12/08).

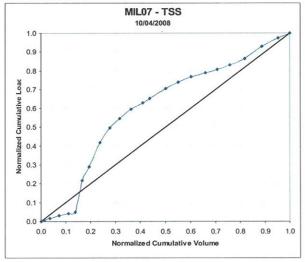
5.3 FIRST FLUSH ANALYSIS

The pollutographs were used to analyze first flush trends during a storm event. The first flush phenomenon was evaluated by a dimensionless plot of the normalized cumulative pollutant mass versus the normalized cumulative runoff volume. Three of these graphs are presented in Figure 5-1; the complete set of graphs presented in Appendix C. A 45° line (1:1) plotted on each load graph indicates constant pollutant concentration throughout the storm event. A first flush phenomenon is indicated when the storm line is above the 45° line at the earlier stages of the storm event.

FIGURE 5-1 Normalized Pollutographs



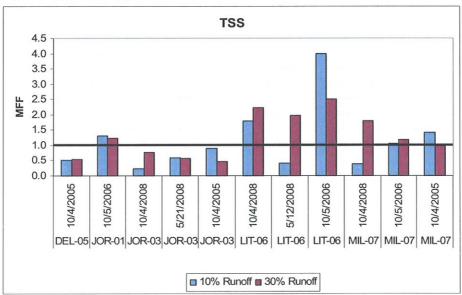


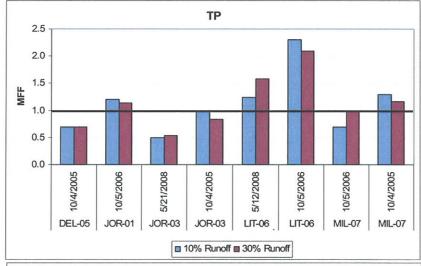


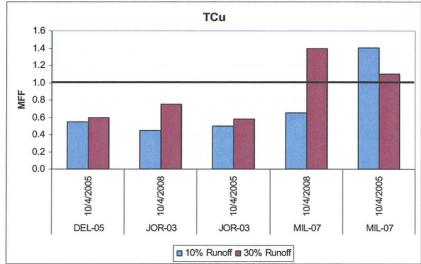
In order to quantify the strength of the first flush phenomenon, the mass first flush ratio was calculated for each load graph. The mass first flush ratio is the ratio of normalized cumulative pollutant mass to normalized cumulative runoff volume at selected fractions of runoff volume. For this analysis, the mass first flush ratio was calculated at 10% and 30% runoff volume (0.1 and 0.3 normalized cumulative runoff volume). The methodology utilized herein is similar to that presented in M. Kayhanian and M. Stenstrom (2008). A higher ratio represents a greater first flush phenomenon; ratios above 1.0 represent the presence of a first flush. As shown in Figure 5-2, the presence of a first flush is variable with storms and stations. The following trends are noted:

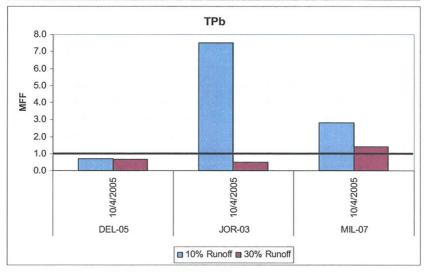
- DEL-05 did not exhibit a first flush
- · JOR-01shows a slight first flush
- JOR-03 typically did not show a first flush with the exception of the 2005 storm
- LIT-06 & MIL-07 typically had a first flush, although these were relatively small at MIL-07
- the greatest first flush occurred at LIT-06 for the 2006 storm event

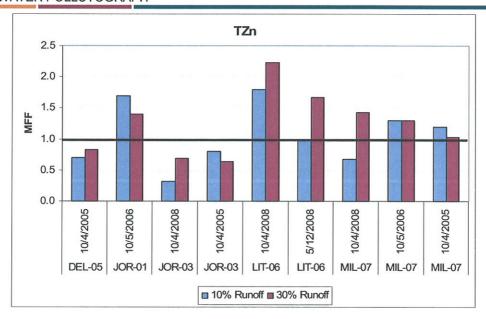
FIGURE 5-2 Mass First Flush Ratio











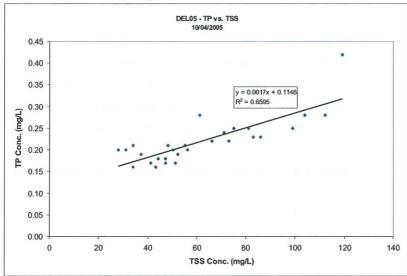
The first flush phenomenon in the storm event sampled was either not present or weak indicating that there may not be much benefit to treating the first part of the storm and bypassing the high flows. For example, in order to achieve an 80% pollutant removal efficiency, most likely 80% of the runoff volume would need to be treated by the BMP.

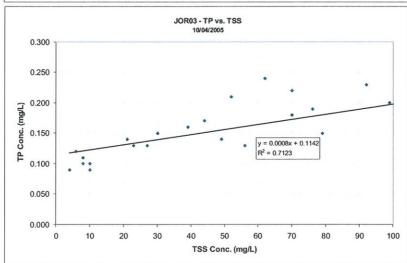
This lack of a clear first flush follow similar results from other studies. A study conducted in North Carolina, (Tucker, 2007), found a "high inconsistency in the occurrence of the first flush effect...". It was further stated that this is consistent with other research regarding the first flush phenomenon. Another study conducted by A. Taebi and R. L. Droste (2004), indicated a relatively weak first flush for some parameters, no correlation for some, and an increase in the first flush load of TSS when the intensity and duration of a storm event increases. However, a study conducted by CALTRANS (2005), identified several types of first flushes for highway sites; all indicating the "discharge of greater concentrations or mass in the early part of a storm event" with the exception of a seasonal first flush (first flush types analyzed were PAH, Litter, Particle and Seasonal). Therefore, the County's data and lack of a strong first flush occurrence is not unprecedented.

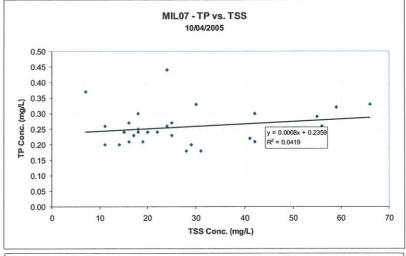
5.4 TSS AND TOTAL PHOSPHORUS RELATIONSHIP

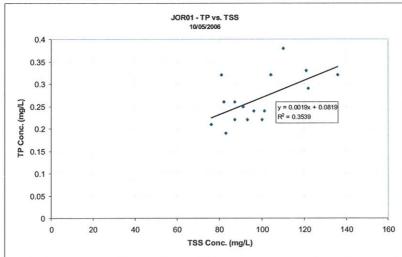
An analysis of the relationship between TSS and total phosphorus (TP) data obtained for the pollutographs was conducted. The purpose was to investigate the general assumption that much of the phosphorus present in stormwater is adsorbed to solids. A linear regression analysis was performed in order to identify if there was any correlation between TSS and TP concentrations. The results from this analysis are presented in Figure 5-3. Data from 2008 was not included in this analysis due to the high detection level for phosphorus during this sampling event.

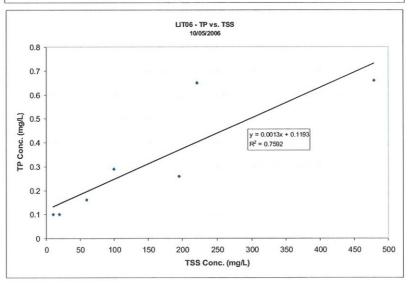
FIGURE 5-3 TP vs TSS Trend Analysis

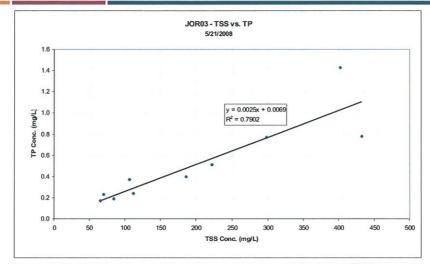


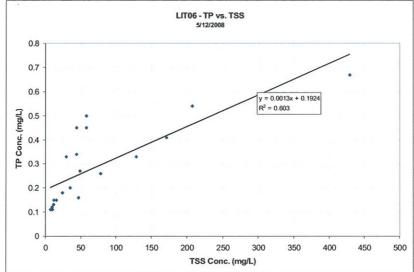


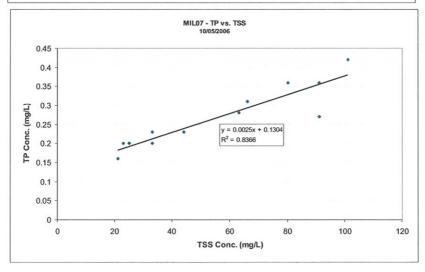












The following trends are noted from the graphs in Figure 5-3:

- In all cases, the TP concentration increased with the TSS concentration; the slope varied from 0.0008 to 0.0027 TP to TSS concentration.
- The strength of the correlation was generally strong, with the exception of MIL-07 for the 10/04/2005 storm, which was very poor.

The correlation between TSS and TP is fairly strong; therefore, there is most likely a benefit to targeting TSS removal in BMPs in order to lower TP stormwater loads.

Table 6.5: Data Results from "Dry weather" and "Storm" Sampling Event (Next 3 pages)

- 141	ble 6.5: Data Results from "Di	l y weathe	and	Storm Sampling L	Vent (IVEXU	page.	3) 	1		<u> </u>	ı				<u> </u>		<u> </u>			1		Ī		1		1
Site No.	Notes: 1) ND = Non-detect. 2) Numbers in red exceed 3) Blue color fields denote sampling that was done irrigation water was in t 4) The samples shown on t were taken during a sto water was in the canals Description	"dry weatl in the sprii the canals. he white ro rm in Augus	her" baseling before	table	BOD ₅ (mg/l)	COD (mg/l)	Nitrate + Nitrite as N (mg/l)	Nitrate as N (mg/l)	Nitrite as N (mg/l)	Total Ammonia Nitrogen (NH3) (mg/l)	Total Nitrogen (TN) (mg/l)	Total Kjeldahl Nitrogen (TKN) (mg/l)	Phosphate, Ortho as PO4 (mg/l)	Total Phosphorus (TP) (mg/l)	Oil & Grease (mg/l)	Hd	Hardness (as CaCO ₃) (mg/l)	Total Dissolved Solids (TDS) (mg/l)	Total Suspended Solids (TSS) (mg/l)	Cadmium, Total (mg/l)	Calcium, Total (mg/l)	Copper, Dissolved (mg/l)	Lead, Dissolved (mg/l)	Magnesium, Total (mg/l)	Zinc, Dissolved (mg/l)	E. coli (org/100 mL)	Conclusions
	2000.19000.			linimum Reporting Limit	5	10	0.1	0.1	0.02	0.2	0.3	1	0.01	0.01	5	0.5	1	5	4	0.005	0.2	0.005	0.02	0.2	0.01		
				Acceptable Limits	5			4		5.73			0.05	0.05		6.5 - 9.0		1200		0.25		0.009	0.0025		0.12	126	
1	Swift Slough /Benson Canal (Approximately 1700 W. 3000 N. at the diversion that splits water out of the canal down the Swift Slough)	4/1/08	10:30		8	ND		1.2	ND	ND	1.2	ND	0.05	0.11	ND	8.05	356	552	26	ND	58.9	ND	ND	50.7	ND	9	
1	Swift Slough /Benson Canal	8/31/0 8	18:40	Sample may have been taken before runoff reached this site.	ND	ND	0.1			ND	0.1	ND	0.04	0.02	ND	8.31	179	236	7	ND	40.1	ND	ND	19.2	ND	370	E. Coli is most likely coming from animal waste
2	Logan Northwest Field Canal (200 W. 1500 N. on the west side of 200 West Street)	4/1/08	12:04	Canals split into 2 channels again	10	ND		0.8	ND	ND	0.8	ND	0.02	0.05	ND	7.29	337	684	6	ND	45.7	ND	ND	54.2	ND	12	
2	Logan Northwest Field Canal	8/31/0 8	16:50	Before runoff reached site	ND	ND	ND			ND	ND	ND	ND	0.01	ND	8.45	186	204	ND	ND	44.5	ND	ND	18.1	ND	190	E. Coli is most likely coming from animal waste on the banks of the canal
2	Logan Northwest Field Canal	8/31/0 8	18:05	Time laps after rain had started	21	86	0.5			0.7	2.5	2	0.81	0.16	ND	8.07	158	238	46	ND	38.8	0.007	ND	14.9	0.03	690	E. Coli is most likely coming from animal waste on the banks of the canal
3	Twin Canals (400 E. 1500 N.)	3/31/0 8	16:15	Near some town homes, in front of Cache County Bible	ND	ND		2.1	ND	ND	2.1	ND	0.02	0.05	11	7.96	413	1020	7	ND	75.0	ND	ND	54.7	0.01	12	No limits exceeded
3	Twin Canals	8/31/0 8	17:15		ND	ND	0.1			ND	0.1	ND	ND	0.01	ND	8.34	183	208	ND	ND	44.6	ND	ND	17.5	ND	56	No limits exceeded

Site No.	Notes: 1) ND = Non-detect. 2) Numbers in red exceed 3) Blue color fields denote sampling that was done irrigation water was in the samples shown on twere taken during a stowater was in the canals Description	"dry weath in the sprir the canals. he white ro rm in Augus	ner" baseling before	table	BOD ₅ (mg/l)	COD (mg/l)	Nitrate + Nitrite as N (mg/l)	Nitrate as N (mg/l)	Nitrite as N (mg/I)	Total Ammonia Nitrogen (NH ₃) (mg/l)	Total Nitrogen (TN) (mg/l)	Total Kjeldahl Nitrogen (TKN) (mg/l)	Phosphate, Ortho as PO4 (mg/l)	Total Phosphorus (TP) (mg/l)	Oil & Grease (mg/l)	전	Hardness (as CaCO ₃) (mg/l)	Total Dissolved Solids (TDS) (mg/l)	Total Suspended Solids (TSS) (mg/l)	Cadmium, Total (mg/l)	Calcium, Total (mg/l)	Copper, Dissolved (mg/l)	Lead, Dissolved (mg/I)	Magnesium, Total (mg/l)	Zinc, Dissolved (mg/l)	E. coli (org/100 mL)	Conclusions
				linimum Reporting Limit	5	10	0.1	0.1	0.02	0.2	0.3	1	0.01	0.01	5	0.5	1	5	4	0.005	0.2	0.005	0.02	0.2	0.01		
				Acceptable Limits	5			4		5.73			0.05	0.05		6.5 - 9.0		1200		0.25		0.009	0.0025		0.12	126	
4a	Logan and Northern Canal A (Approx 1000 E. 1400 N. on the canal a couple of hundred feet north of 1400 North Street by USU Poisonous Plant Research area)	3/31/0 8	15:05	An oil sheen was seen on the water surface during the collection of these samples	ND	28		2.1	ND	ND	2.1	ND	ND	0.06	9	7.96	356	3620	21	ND	66.5	ND	ND	46.0	ND	10	Oils are being added to the water somewhere up stream of this site.
4 a	Logan and Northern Canal A	8/31/0 8	17:30		ND	15	0.2			ND	0.2	ND	0.03	0.06	ND	8.19	190	214	12	ND	47.2	ND	ND	17.6	ND	230	E. Coli is most likely coming from animal waste on the banks of the canal
4b	Logan and Northern Canal B (Concrete pipe that discharges into the Logan & Northern Canal from the southeast bank of the canal just north of 1400 North	8/31/0 8	17:45	A Sample was taken at this location during the storm because the flows from the pipe looked dirty.	76	373	0.9			1.6	7.9	7	0.35	1.00	ND	7.56	255	304	420	ND	68.1	0.01	ND	20.6	0.03	490	Entities that contribute storm water flows to this location are adding some pollutants.
5	Crockett Diversion (Approx.1000 E. 250 N. where the canal splits off the Logan River along the south side of River Hollow Park)	4/1/08	14:17	upstream of Logan City runoff contributions	ND			0.1	ND	ND	0.1	ND	ND	ND	ND	8.42	193	204	ND	ND	47.2	ND	ND	18.3	ND	1	No limits exceeded.
5	Crockett Diversion	9/1/08	13:45	Upstream of Logan City runoff contributions	ND	ND	0.1			ND	0.1	ND	ND	0.01	ND	8.28	178	210	ND	ND	44.1	ND	ND	16.4	ND	57	No limits exceeded
6	Spring Creek (1200 S. Legrand Street on the downstream side of the culvert that crosses under 1200 South by Family	3/31/08	13:30	Upstream of Logan City runoff contributions	ND	ND		1.9	ND	ND	1.9	ND	ND	0.03	ND	7.85	341	886	8	ND	74.4	0.009	ND	37.6	ND	9	Upstream gas stations/cars may be contributing metals.

Site No.	Notes: 1) ND = Non-detect. 2) Numbers in red exceed 3) Blue color fields denote sampling that was done irrigation water was in the samples shown on the were taken during a stowater was in the canals Description	"dry weat in the spri he canals. he white ro rm in Augu	her" basel ng before ows of the	table	BOD ₅ (mg/l)	COD (mg/l)	Nitrate + Nitrite as N (mg/l)	Nitrate as N (mg/l)	Nitrite as N (mg/l)	Total Ammonia Nitrogen (NH ₃) (mg/l)	Total Nitrogen (TN) (mg/l)	Total Kjeldahl Nitrogen (TKN) (mg/l)	Phosphate, Ortho as PO4 (mg/l)	Total Phosphorus (TP) (mg/l)	Oil & Grease (mg/l)	Hd	Hardness (as CaCO ₃) (mg/l)	Total Dissolved Solids (TDS) (mg/l)	Total Suspended Solids (TSS) (mg/l)	Cadmium, Total (mg/l)	Calcium, Total (mg/l)	Copper, Dissolved (mg/l)	Lead, Dissolved (mg/I)	Magnesium, Total (mg/l)	Zinc, Dissolved (mg/l)	E. coli (org/100 mL)	Conclusions
	·		N	linimum Reporting Limit	5	10	0.1	0.1	0.02	0.2	0.3	1	0.01	0.01	5	0.5	1	5	4	0.005	0.2	0.005	0.02	0.2	0.01		
				Acceptable Limits	5			4		5.73			0.05	0.05		6.5 - 9.0		1200		0.25		0.009	0.0025		0.12	126	
	Dollar)																										
7a	Blacksmith Fork South (Approx. 200 W, 300 N Main Street, Nibley where the river crosses under HWY 165)	4/1/08	16:00	Upstream of Logan City runoff contributions. South Side of River. Jars were dipped for these samples	7	ND		0.2	ND	ND	0.2	ND	ND	0.01	ND	8.31	209	240	ND	ND	51.0	ND	ND	19.9	ND	3	Dip method may have influenced results. Not the same on the South side of the river as the North side of the river.
7b	Blacksmith Fork North (Approx. 200 W, 300 N Main Street, Nibley where the river crosses under HWY 165)	4/1/08	16:05	Upstream of Logan City runoff contributions. North side of River	ND			0.2		ND	0.2	ND		0.01	ND	8.36			4	ND	51.8	ND	ND	20.2	ND	5	No limits exceeded
8	Logan River (2200 W. 600 South where river crosses 600 South)	4/2/08	11:36		5	ND		0.3	ND	ND	0.3	ND	ND	0.01	ND	8.16	217	260	4	ND	52.6	ND	ND	20.8	ND	39	Water leaving City has a BOD at acceptable levels. Other pollutants seem to have been diluted or dispersed.

Inventory of Construction Sites

Maintain Records of all Projects disturbing 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. These records are to be kept for five years or until construction is completed whichever is longer. Records to be filed Include: Site plan reviews, SWPPP, Inspection and enforcement actions, Stop work orders, warning letters, notices of violation, and other enforcement records.

Construction Site Name	Location	Description	Contact person and number	Begin Date	End Date 5 year mark	Documentation filed

Outfall Inventory

City:

Unique Identifier	Location of outfall	Description	Scheduled Dry Weather Screening	Actual Date Completed	Observations Made