



**Storm
Water
Management
Plan**

Ogden City Public Services 2010

2010 Storm Water Management Plan

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Ogden City Program Plan

Storm Water Management Plan 2010

Permit Number: UTR090000

Location of MS4: Ogden City, Weber County, State of Utah



Submitted with this booklet is the following:

- ✓ A map of the MS4 location
- ✓ Information regarding the overall quality concerns, priorities, and measurable goals specific to the Permittee that were considered in the development and/or revisions to the SWMP document
- ✓ A description of the program elements that will be implemented in each of the six minimum control measures
- ✓ A description of any modifications to ordinances or long-term/ongoing processes implemented in accordance with the previous MS4 general permit for each of the six minimum control measures
- ✓ A description of how the Permittee intends to meet the requirements of the Permit as described in Part 4.0 by either referencing existing program areas that already meet the Permit requirements or a description and relevant measurable goals that include, as appropriate, the year by which the Permittee will achieve required actions, including interim milestones
- ✓ Indication of joint submittal of Co-Permittees and the associated responsibility in meeting requirements of the SWMP

Certification

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

Authorized Signature

Date

Ogden City

Priorities and Concerns

Storm Water Management Plan 2010



Pollutant Priorities for Ogden City's Storm Sewer System are as follows:

1. Illicit Discharges
2. Organics (leaves, lawn clippings, etc.)
3. Oil and Grease
4. Sediment

More explanation as to why these are being targeted can be found in appendix D section 7.

Concerns for Ogden City's Storm Water Management Plans are as follows:

1. Enforcement of city ordinances relating to storm water discharges.
2. Bringing city ordinances into compliance with the new MS4 permit requirements.
3. Training of municipal employees on storm water related issues.
4. Adoption of the Storm Drain Master Plan and Storm Water Management Plan by city council.

**Best Management Practices For
Minimum Control Measure #1
Public Outreach and Education**



The best management practices Ogden City is implementing for this MCM are as follows:

1. Contribute to funding for television ads
2. Operate a booth at the annual Weber County Water Fair
3. Post information relating to the MS4 permit on OgdenCity.com
4. Conduct Pre-Construction meetings for all projects requiring a city SWPPP permit.
5. Hand out SWPPP information with every permit not requiring a SWPPP permit.
6. Conduct a city employee training program.
7. Publicize the River Restoration Project.

**Best Management Practices For
Minimum Control Measure #2
Public Involvement and Participation**



The best management practices Ogden City is implementing for this MCM are as follows:

1. Conduct a yearly “Make A Difference Day” and clean up the city.
2. Conduct public meetings in conjunction with adoption of the SWMP.
3. Maintain a hotline to report illicit discharges.
4. Mark curb inlets through Eagle Scout projects.

**Best Management Practices For
Minimum Control Measure #3
Illicit Discharge Detection and Elimination**



The best management practices Ogden City is implementing for this MCM are as follows:

1. Maintain a map of the storm drain system and discharge points.
2. Implement a plan for detecting, tracing, characterizing, and stopping illicit discharges.
3. Provide employee training for detecting, tracing, characterizing and stopping illicit discharges.
4. Include illicit discharges as the focus of the education and outreach program.
5. Promote or provide services for the collection of household hazardous waste.
6. Publicize a hotline for reporting of spills and illicit discharges.

Best Management Practices

Minimum Control Measure #4

Construction Site Storm Water Runoff Control



The best management practices Ogden City is implementing for this MCM are as follows:

1. Provide BMP Handouts with each SWPPP permit.
2. Use enforcement strategies including escalating penalties.
3. Document and track all enforcement actions.
4. Use SOPs for pre-construction SWPPP review (i.e. pre-construction meetings, water quality impacts, high profile sites, etc.).
5. Inspect construction sites in accordance with the MS4 permit.
6. Provide training materials to city staff and third party designers regarding SWPPPs.

**Best Management Practices For
Minimum Control Measure #5
Post Construction Storm Water Runoff Control**



The best management practices Ogden City is implementing for this MCM are as follows:

1. Develop and adopt an ordinance that requires long-term post-construction stormwater controls on new development and redevelopment sites.
2. Develop a plan to retrofit existing sites that are adversely affecting water quality.
3. Develop methods and considerations for the design of post-construction BMPs. Include preferred treatments for sensitive or high-priority areas.
4. Implement SOPs for site inspection and enforcement of post-construction stormwater control measures.
5. Adopt a maintenance agreement draft for private property post-construction stormwater BMPs.
6. Inventory post-construction storm water BMPs and conduct inspections.

**Best Management Practices For
Minimum Control Measure #6
Pollution Prevention/Good Housekeeping for
Municipal Operations**



The best management practices Ogden City is implementing for this MCM are as follows:

1. Use the organizational chart and defined responsibilities for all departments responsible for stormwater design, maintenance or inspection.
2. Maintain inventory of all City-owned or operated facilities and identify high priority facilities.
3. Follow facility-specific SOPs for each high-priority facility.
4. Conduct weekly inspections for each high-priority facility.
5. Conduct comprehensive quarterly inspections for each high-priority facility, including visual observation of stormwater discharge.
6. Follow policies and processes to assess water quality impacts on all new and existing flood control projects.
7. Conduct training for all employees who have job functions that are likely to impact stormwater quality.

MCM 1 Measureable Goals
Public Outreach and Education

Storm Water Management Plan 2010



MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
1	All Pollutants	Residents and Businesses	4.2.1.1 To educate audiences about impacts from storm water discharge	Contribute to funding for television advertisements	Ongoing	PEP and UM	Monetary contributions continue.
1	All Pollutants	Residents (4th graders)	4.2.1.1 To educate audiences on ways to avoid, minimize, and reduce impacts of storm water discharge	Operate a booth at the annual Weber County Water Fair	Annually	PEP and CESW	Fair occurs annually.
1	All Pollutants	Residents, Businesses and Contractors	4.2.1.1 To educate audiences on actions individuals can take to improve water quality	Post technical information relating to the MS4 Permit on OgdenCity.com	1/1/2012	PEP and UM	The information is posted on OgdenCity.com.
1	Targeted Pollutants	General Public, Institutions and Businesses	4.2.1.2 Information is provided to target audience on prohibitions against illicit discharges and improper disposal of waste including: maintenance of septic systems; effects of outdoor activities, such as lawn care; benefits of on-site infiltration of storm water; effects of automotive work and car washing on water quality; proper disposal of swimming pool water; and proper management of pet wastes.	Post storm water brochures on OgdenCity.com	1/1/2012	PEP and UM	The storm water brochures are posted on OgdenCity.com.
1	Construction Related Pollutants	Contractors	4.2.1.4 Reduce adverse impacts from development sites	Conduct Pre-Construction Meetings for projects requiring a city SWPPP permit	Ongoing	PEP and UM	The practice is being followed.
1	Illicit discharge and waste	Contractors, Developers, and plan review staff	4.2.1.4 Reduce adverse impacts from development sites	Assemble packets of information on SWPPP and BMPs that the contractor must read and sign.	Ongoing	EM	Information packets are signed for every new development.

MCM 1 Measureable Goals
Public Outreach and Education

Storm Water Management Plan 2010



MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
1	Illicit discharge and waste	Employees	4.2.1.5 Information is provided to target audience on prohibitions against illicit discharges and improper disposal of waste including: Equipment inspection to ensure timely maintenance Benefits of appropriate on-site infiltration of storm water Minimization of use of salt or other deicing materials Proper storage of industrial materials Proper management of waste materials and dumpsters Proper management of parking lot surfaces.	Create an employee training program and conduct training as outlined.	By July 2012	ET	Employee training program is created and conducted as outlined.
1	All pollutants	Permittee engineers, development and plan review staff, land use planners	4.2.1.6 Training on LID, Green Infrastructure, and post construction BMPs	Require an annual meeting with all engineers, development and plan review staff, and land use planners to review the city's LID goals. Discuss what has been done in the past year to meet the goals, and define the upcoming year's goals.	By January 1, 2012		Annual meeting occurs
1	All pollutants	All Audiences	4.2.1.7 Evaluate the effectiveness of the public education program by a defined method.	Research evaluation methods and select the best one (2010). Implement the selected evaluation method (2011)	Research by Jan 2011 Implementation by Jan 2012		Evaluation method chosen (2011) and implemented (2012)
1	All pollutants	All Audiences	4.2.1.8 Document why certain BMPs were chosen for public education program (over others)	Include an explanation in the SWMP.	July 1, 2011		Documented rationale included in the SWMP.

MCM 2 Measurable Goals
Public Involvement and Participation

Storm Water Management Plan 2010



MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
2	All pollutants	General public	4.2.2.1 Have a program or policy in place that allows for the public to provide input	Notify the public 30 days in advance of the city council meeting when the SWMP update will be reviewed.	By July 1, 2011	PEP	The policy is accepted by the city council
2	All pollutants	General public	4.2.2.2 Have SWMP document available for public review before it's submitted to the state	Have a hard copy of the draft of the permit available at the city offices within a week of the public hearing	By November 22, 2010	PEP	SWMP document is available for public review a week before public hearing
2	All pollutants	General public	4.2.2.3 Have SWMP document available to the public at all times	Post the SWMP on the website	By July 1, 2011	PEP	SWMP is updated and posted on the website
2	All pollutants	General public	4.2.2.3 Make updated SWMP document available to the public annually	Post updated SWMP annually	Ongoing	PEP	SWMP is updated and posted on the website annually
2	All pollutants	General public	4.2.2.4 Comply with State and Local public notice requirements	Research and document what the State and Local public notice requirements are. Set goals to comply with them.	Ongoing	PEP	Be in compliance with the MS4 Permit
2	All pollutants	General public	4.2.3.9 Publicly list and publicize a hotline or other telephone number for public reporting of spills and other illicit discharges	Operate and publicize a hotline to report illegal discharges.	Ongoing	PEP	Hotline is operational and being publicized

MCM 3 Measurable Goals Storm Water Management Plan 2010
Illicit Discharge Detection and Elimination



MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
3	All Pollutants	Contractors, Developers, City Council	4.2.3 Enforcement ability for storm water rules	Review and update the ordinance to conform with new permit	Draft by Aug 2011 & Final Feb 2012	OD	If ordinance is in place and meets the permit requirements
3	N/A	Public Works	4.2.3.1 Maintain Storm Water Map	Establish policy to maintain a Current SD System Map on all new developments within 6 months	Ongoing	MSWD	Storm Drain Map Books are up to date
3	All Pollutants	All Audiences	4.2.3.2 Develop, implement, and prepare in writing a plan to detect and address non-SW discharges	Do Dry weather screening 20% of all outfalls each year	1 July of each year	NSWD	Successful if all screens are done
3	All Pollutants	All Audiences	4.2.3.2 Develop, implement, and prepare in writing a plan to detect and address non-SW discharges	Have SOP in place and training to Staff	Complete by July 1, 2011	NSWD	Successful if completed by that date and staff is following SOP
3	All Pollutants	All Audiences	4.2.3.4 Develop and implement standard operating procedures for tracing the source of illicit discharge	Purchase a portable unit for pH, DO, Conductivity, & Temp. for finding Illicit Discharges	Complete by July 1, 2013	IIC	Successful if purchased by that date
3	All Pollutants	All Audiences	4.2.3.5 Develop and implement standard operating procedures for characterizing the nature of any illicit discharges found or reported to the Permittee by the hotline developed in 4.2.3.9	Create the Incidence Response Flow Chart and train personnel annually	Completed by July 1, 2011	IIC, CH	Successful if completed by that date, staff is following flow chart and training is performed annually
3	All Pollutants	All Audiences	4.2.3.6 Develop and implement standard operating procedures for ceasing the illicit discharge	Create the Incidence Response Flow Chart and train personnel	Completed by July 1, 2011	IDC, ISDC	Successful if completed by that date and staff is following SOP
1	All Pollutants	Public Employees, Businesses and Residents	4.2.3.7 Inform public employees, businesses, and general public of hazards associated with illicit discharges and improper disposal of waste	Public Education and Outreach Program is meeting its goals	Ongoing	PEP, ET	Public Education and Outreach Program is meeting its goals
3	Household Hazardous Waste	Residents	4.2.3.8 Promote or provide services for the collection of household hazardous waste	Put the HHW Address and Phone number on City Web Site	Completed by July 1, 2011	UOR, HWM	Successful if complete by that date
3	Household Hazardous Waste	Residents	4.2.3.9 Publicly list and publicize a hotline or other telephone number for public reporting of spills and other illicit discharges	Put the HHW Address and Phone number on City Web Site	Completed by July 1, 2011	CH	Successful if complete by that date

MCM 3 Measurable Goals Storm Water Management Plan 2010
Illicit Discharge Detection and Elimination



MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
3	All Pollutants	All Audiences	4.2.3.10 Adopt and implement procedures for program evaluation and assessment. Include a database for mapping, tracking of the spills or illicit discharges identified and inspections conducted	Create a spreadsheet for tracking Illicit Discharges	Completed by July 1, 2011	IIC, MSWD	Successful if complete by that date
3	"	"	"	Incorporate the spreadsheet into a GIS Database	Completed by July 1, 2013	MSWD	Successful if complete by that date
3	"	"	"	Train Storm Water Personnel on GIS Mapping uses	Completed by July 1, 2015	ET	Successful if complete by that date

MCM4 Measureable Goals Stormwater Management Plan 2010
Construction Site Storm Water Runoff Control



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.1 Raise awareness of contractors and developers on what is expected on construction sites	Require a SWPPP for every construction site over one acre	Ongoing	OD	Successful if construction sites are required to have a SWPPP
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.2 Develop a written enforcement strategy and implement the enforcement provisions of the ordinance or other regulatory mechanism	Draft ordinance to include escalating enforcement provisions	By July 2012	OD	Successful if completed by milestone
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers, City Council, Plan Reviewers	4.2.4.2 Documentation and tracking of all enforcement actions	Develop and begin using a construction site enforcement action log/database	Ongoing	OD	Successful if we continue electronic tracking of actions
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.3 Develop and implement SOP's for pre-construction SWPPP review for construction sites	Develop checklist and begin to do preconstruction reviews of SWPPP	By July 2011	ECP	Successful if we have a written policy for conducting SWPPP reviews
4	"	"	4.2.4.3.1 Conduct a pre-construction meeting	Hold Pre-con meetings on all sites greater than 1 acre or as part of common plan of development	Ongoing		Successful if pre-construction meetings are being held
4	"	"	4.2.4.3.2 Incorporate into the SWPPP review procedures the consideration of potential water quality impacts and procedures for pre-construction review which shall include the use of a checklist.	Develop a policy to consider potential water quality impacts on all projects - private or municipal	By July 2011	ZO	Successful if we have a written policy for conducting SWPPP reviews

MCM4 Measureable Goals Stormwater Management Plan 2010
Construction Site Storm Water Runoff Control



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
4	"	"	4.2.4.3.3 Incorporate into the SWPPP review procedures for an evaluation of opportunities for use of Low Impact Development (LID) and green infrastructure and when the opportunity exists, encourage such BMPs to be incorporated into the site design.	Develop a policy to consider Low Impact Development practices on all projects - private or municipal	By February 2012	ZO	Successful if we have a written LID policy
4	"	"	4.2.4.3.4 Identify priority construction sites, including at a minimum those construction sites discharging directly into or immediately upstream of waters that the State	Develop a "sensitive area" map showing areas within the city where "additional" protection may be desired	By July 2011	LIP	Successful when map is completed and ready for use
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.4.1 Inspections of all new construction sites ... at least monthly by qualified personnel	Conduct monthly inspections of all construction sites - Emphasize self inspections - sensitive areas to be inspected twice monthly	Ongoing	CCIT	Successful if sites are visited at least once a month
4	"	Contractors, developers and MS4 staff	4.2.4.5 Provide training to city staff and 3rd party designers	Develop a city policy to require all SWPPP inspectors to be RSI inspectors within 6 months	By July 2012	CCIT	Successful if completed by milestone

MCM4 Measureable Goals Stormwater Management Plan 2010
Construction Site Storm Water Runoff Control



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
4	"	Contractors, developers and MS4 staff	4.2.4.4.2 ...The Permittee must include in its SWMP document a procedure for being notified by construction operators/owners of their completion of active construction so that verification of final stabilization and removal of all temporary control measures may be conducted.	Develop a written Notice of Termination process for use within the city	By July 2012	ECP	Successful if 95% of all active construction sites are terminated appropriately
4	"	Contractors, developers and MS4 staff	"	Train SWPPP inspectors, their supervisors, and any personnel who grant final occupancy permits on the NOT process	Ongoing	ECP	Successful if SWPPP inspector is getting trained monthly
	"	"	4.2.4.4.3 Conduct Bi-weekly inspections on high priority construction sites	Inspect high priority sites	Ongoing	ECP	Successful if all high priority sites are inspected bi-weekly
	"	"	4.2.4.6 Maintain a log of active construction sites	Establish a log	Ongoing	ECP	Successful if electronic tracking continues

MCM5 Measureable Goals Stormwater Management Plan 2010
Post Construction Storm Water Runoff Control



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	All Pollutants	All Audiences	4.2.5.1. Develop and adopt an ordinance or other regulatory mechanism that requires long-term post-construction storm water controls at new development and redevelopment sites. (4.2.5.3.1 for flood control structure issues and 4.2.5.3.2 for LID)	Review existing ordinance to determine if it meets requirements of new permit - Use checklist from coaching sessions	By March 2011	OD	If review is complete
5	"	"	"	Draft ordinance revisions	By December 2011	OD	If draft is complete and ready for others to review
5	"	"	"	Adopt updated ordinance	By July 2012	OD	If ordinance has been passed
5	"	"	4.2.5.2.2 Documentation on how the requirements of the ordinance or other regulatory mechanism will protect water quality and reduce the discharge of pollutants to the MS4.	Draft a standard to require contractors and developers to submit documentation on: how long-term BMPs were selected, pollutant removal expected from the BMP, and technical basis supporting performance claims	By December 2011	IPL	If draft is completed by the milestone date
5	"	"	"	Adopt revised standard	By July 2012	IPL	
5	"	MS4 Staff, City Council	4.2.5.3.3 The Permittee must develop a plan to retrofit existing developed sites that are adversely impacting water quality.	Adopt an ordinance that addresses the retrofitting of existing sites for storm water issues	By July 2012	IPL	If CIP includes water quality projects

MCM5 Measureable Goals Stormwater Management Plan 2010
Post Construction Storm Water Runoff Control



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	MS4 Staff, Contractors and Developers	4.2.5.3.4 Each Permittee shall develop and define specific hydrologic method or methods for calculating runoff volumes and flow rates...	Review existing design standards to see if they meet new permit requirements - see section 4.2.5.3.4	By July 2012	IPL	If standards have been reviewed and comments made
5	"	"	"	Update design standards	By July 2012	IPL	If updated standards have been adopted
5	"	"	4.2.5.4.1 Review Storm Water Pollution Prevention Plans (SWPPPs)	See goals for MCM 4			
5	"	"	4.2.5.4.2 Permittees shall provide developers and contractors with preferred design specifications to more effectively treat storm water for different development types...projects located in, adjacent to, or discharging to environmentally sensitive areas.	Locate environmentally sensitive areas within the MS4	By July 2011	IPL	Completed map identifying environmentally sensitive areas
5	"	"	"	Review map of sensitive areas and identify preferred method(s) of treating storm water to discharge to those areas	By July 2011	IPL	List of preferred method(s)
5	"	"	4.2.5.4.3 Permittees shall keep a representative copy of information that is provided to design professionals;...the dates of the mailings and lists of recipients.	Keep a revision and distribution log for information in Appendix A - Supplemental Guide to Contractors and Developers	By July 2011	EM	If revision logs are filled out for all revisions

MCM5 Measureable Goals Stormwater Management Plan 2010
Post Construction Storm Water Runoff Control



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	"	4.2.5.5. All Permittees shall adopt and implement SOPs or similar type of documents for site inspection and enforcement of post-construction storm water control measures.	Review and customize SOPs for inspection and enforcement of post-construction control measures	By July 2012	LIP	If inspection and enforcement SOPs are current and being utilized?
5	"	"	4.2.5.5.1 ... require private property owner/operators or qualified third parties to conduct maintenance and provide annual certification that adequate maintenance has been performed and the structural controls are operating as designed to protect water quality. In this case, the Permittee must require a maintenance agreement addressing maintenance requirements for any control measures installed on site.	Draft a maintenance agreement template	By July 2012	BMPIM	If draft is completed by the milestone date
5	"	"	"	Adopt a maintenance agreement template	By July 2012	BMPIM	If template is adopted and being used by milestone date

MCM5 Measureable Goals Stormwater Management Plan 2010
Post Construction Storm Water Runoff Control



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	"	4.2.5.5.3 Inspections and any necessary maintenance must be conducted annually by either the Permittee or through a maintenance agreement, the property owner/operator. On sites where the property owner/operator is conducting maintenance, the Permittee shall inspect those storm water control measures at least once every five years, ...	Inventory post-construction BMPs - see 4.2.5.7.1 for inventory inclusion items	By July 2012	BMPIM	If inventory is complete
5	"	"	"	Identify who is responsible to inspect and/or maintain each post-construction BMP	By July 2012	BMPIM	If list identifies person responsible for inspections/maintenance
5	"	"	"	Develop inspection report form for post-construction BMPs	By July 2011	BMPIM	If form is completed
5	"	"	"	Conduct inspections annually for city owned BMP's	Ongoing	BMPIM	If completed inspection reports are properly filed
5	"	"	"	Conduct inspections on privately owned BMP's at least 20% per year	Ongoing	BMPIM	If completed inspection reports are properly filed

MCM5 Measureable Goals Stormwater Management Plan 2010
Post Construction Storm Water Runoff Control



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	MS4 staff	4.2.5.6. Permittees shall provide adequate training for all staff involved in post-construction storm water management, planning and review, and inspections and enforcement.	Schedule and conduct training for appropriate personnel	Annually	BMPIM	If all appropriate personnel are trained at least annually
5	"	"	4.2.5.7 Maintian an inventory of post construction BMP's	Inventory log updated annually	Ongoing		If log is updated at least annually

MCM 6 Measureable Goals Stormwater Management Plan 2010
Pollution Prevention/Good Housekeeping for Municipal Operations



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	All pollutants	MS4 staff	4.2.6 ...All components of an O & M program shall be included in the SWMP document and must identify the department (and where appropriate, the specific staff) responsible for performing each activity described in this section...	Complete Org chart and define specific responsibilities for all departments shown	By December 1, 2010	HP	If org chart is complete and up to date by milestone date
6	"	"	4.2.6.1. Permittees shall develop and keep current a written inventory of Permittee-owned or operated facilities	Complete listing of MS4 owned/operated facilities	By December 1, 2010	HP	If list is completed by milestone date
6	"	"	4.2.6.2. All Permittees must initially assess the written inventory of Permittee-owned or operated facilities, operations and storm water controls identified in Part 4.2.6.1. for their potential to discharge to storm water the following typical urban pollutants:	Complete assessments and identify "high priority" facilities	By December 1, 2010	HP	If assessments are completed and documentation recorded in SWMP
6	"	"	4.2.6.4. Each "high priority" facility identified in Part 4.2.6.3. must develop facility-specific standard operating procedures (SOPs) or similar type of documents.	Review, customize and update appropriate SOPs	By July 2011	HP	If SOPs are updated and current by milestone date

MCM 6 Measureable Goals Stormwater Management Plan 2010
Pollution Prevention/Good Housekeeping for Municipal Operations



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	"	"	4.2.6.6.1 Weekly visual inspections: The Permittee must perform weekly visual inspections of "high priority" facilities in accordance with the developed SOPs to minimize the potential for pollutant discharge.	Develop weekly inspection form and log	By July 2011	HP	Completed inspection form and log
6	"	"	"	Conduct weekly inspections	Ongoing	HP	If at annual review all weekly inspections are logged and reports completed
6	"	"	4.2.6.6.2 Quarterly comprehensive inspections: At least once per quarter, a comprehensive inspection of "high priority" facilities, including all storm water controls, must be performed	Develop quarterly inspection form(s) and log	Ongoing	HP	Completed inspection form and log
6	"	"	"	Conduct quarterly comprehensive inspections	Ongoing	HP	If at annual review all quarterly inspections are logged and reports completed
6	"	"	4.2.6.6.3 Quarterly visual observation of storm water discharges: At least once per quarter, the Permittee must visually observe the quality of the storm water discharges from the "high priority" facilities	Conduct quarterly visual observations of storm water discharges at high priority facilities	Ongoing	HP	If at annual review all quarterly visual monitoring is completed and logged and reports completed

MCM 6 Measureable Goals Stormwater Management Plan 2010
Pollution Prevention/Good Housekeeping for Municipal Operations



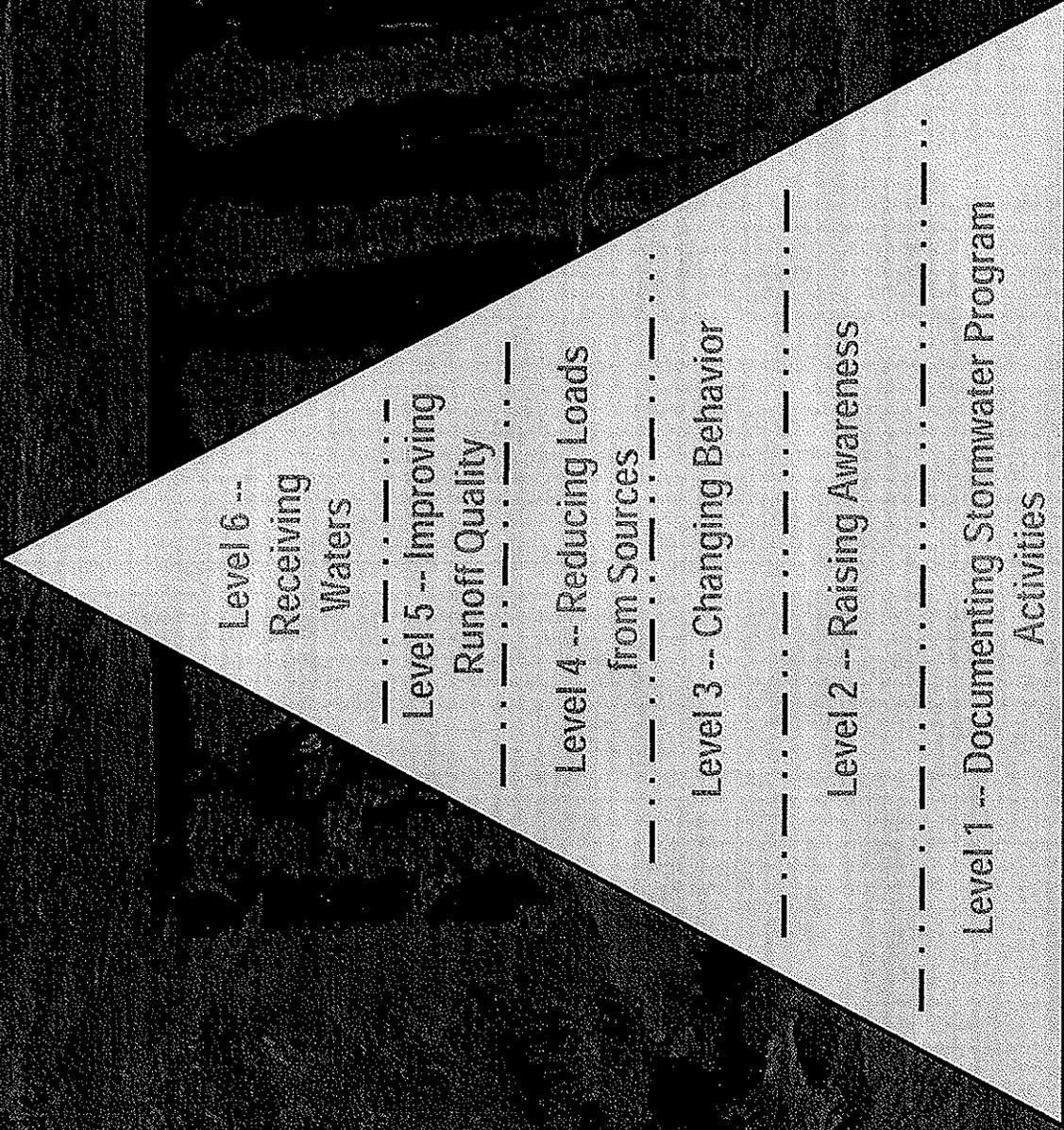
MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	"	MS4 Staff, Contractors and Developers	4.2.6.7. The Permittee must develop and implement a process to assess the water quality impacts in the design of all new flood management structural controls that are associated with the Permittee or that discharge to the MS4.	Draft a policy/process to assess water quality impacts on all new flood control projects	By January 2012	IPL	If draft is prepared and ready for internal review process by milestone date
6	"	"	"	Get policy approved	By July 2012	IPL	If policy is approved and adopted by milestone date
6	"	MS4 staff	4.2.6.7.1 Existing flood management structural controls must be assessed to determine whether changes or additions should be made to improve water quality.	See MCM 5 for goals (part of the retrofit program)			
6	"	"	4.2.6.9. Permittees shall provide training for all employees who have primary construction, operation, or maintenance job functions that are likely to impact storm water quality.	See individual training goals within other MCMs			
6	"	"	"	Develop a training schedule	By July 2011	EM, HP	If schedule is complete by milestone date

MCM 6 Measureable Goals Stormwater Management Plan 2010
Pollution Prevention/Good Housekeeping for Municipal Operations



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	"	"	"	Conduct ongoing training according to schedule	Ongoing	EM, HP	If training is completed and documented according to schedule at annual evaluation

How Can We Assess Effectiveness?



Program
(Levels 5-6)

Element
(Levels 2-5)

Activity
(Levels 1-4)

FACT SHEET STATEMENT OF BASIS
STORM WATER GENERAL PERMIT FOR
CONSTRUCTION ACTIVITIES
PERMIT RENEWAL
PERMIT NUMBER UTR300000

GENERAL PERMIT INFORMATION: This renewal permit (UTR300000) serves as a re-issuance or replacement of the previous Storm Water General Permit for Construction Activities issued on October 01, 2002 ("2002 Permit"). Also issued at the same time is a permit (UTR200000) which continues coverage for those people with active NOIs issued under the "2002 Permit". The duration of this permit (UTR200000) will be two years and the permit will serve as a time bridge from the "2002 Permit" to the renewal permit UTR300000. In that time bridge, a permittee can submit a Notice of Termination (NOT) or a new Notice of Intent (NOI) to be covered under the renewal permit UTR300000. The time bridge was given in order for people under the old "2002 Permit" to become aware of the availability of a new re-issued permit (UTR300000) and to make a reasonably smooth transition. People with active NOIs/construction sites under the old "2002 Permit" will be automatically covered under the UTR200000 permit (no NOIs or any other forms need to be completed for coverage) and all of the requirements of the old "2002 Permit" will be continued in the UTR200000 permit. Automatic coverage under UTR200000 will terminate on June 30, 2010 on which date or before those people automatically covered under UTR200000 will need to fill out a new NOI (on the web site www.waterquality.utah.gov/updes/stormwatercon.htm or submit a paper NOI) to be covered by the re-issued Storm Water General Permit for Construction Activities UTR300000. The bridge permit UTR200000, the re-issued permit UTR300000 and the Statement of Basis for the re-issued permit are included on the same web site as the NOI listed above.

BACKGROUND: The State of Utah was granted primacy in the National Pollutant Discharge Elimination System (NPDES) program by the USEPA in 1987. Utah's program is known as the Utah Pollutant Discharge Elimination System (UPDES) Program. The storm water program is one part of the UPDES program and was first implemented in Utah during 1992. Utah began issuing storm water construction general permits in 1996 for those sites disturbing greater than or equal to five acres in size. In 2002, Utah issued a Storm Water General Permit for Construction Activities that covered construction for those sites greater than or equal to one acre in size.

The Division of Water Quality (DWQ) presently handles most of the storm water permits by issuing general permits, although it reserves the authority to issue individual permits as needed. Approximately 4300 dischargers have been covered under the 2002 General Construction Permit.

DESCRIPTION OF DISCHARGE: This permit covers discharges from construction activities as defined in Utah Admin. Code R317-8-3.9 (6) (d) 10 and R317-8-3.9(6) (e) 1, as well as in Parts 6.5 and 6.6 of the proposed permit. These activities include clearing, grading and excavation that result in the disturbance of one acre or more in total land area. It may also include a disturbance of less than one acre of total land area if the area is part of a larger common plan of development or sale and the larger common plan will ultimately disturb one acre or more.

Under the Utah Admin. Code R317-8-3.9(6)(e)2 any construction activity can be required to obtain a permit if designated by the Executive Secretary based on potential contribution to a violation of a water quality standard or for significant contribution of pollutants to waters of the State.

Storm water discharges covered by this permit are discharges with potential for erosion from disturbed land, with potential for extra sediment loadings, with exposure to construction machinery and equipment, with exposure to construction activities, and with exposure to construction materials.

This permit regulates storm water discharges only. Discharges allowed under this permit, providing water quality is not affected, are fire hydrant flushing; waters used to wash vehicles where detergents are not used; water used to control dusts; potable water sources including waterline flushing; routine external building wash down which does not use detergents; pavement wash waters where spills or leaks of toxic or hazardous (including oil and fuels) materials have not occurred (unless all spilled material has been removed) and where detergents are not used; uncontaminated air conditioning condensate or compressor condensate; uncontaminated groundwater or springs; and foundation or footing drains where flows are not contaminated with process materials such as solvents; Landscape and other irrigation drainage. A facility may have other permitted discharges at the site not covered by this Permit.

COVERAGES: This general permit covers facilities with storm water discharges associated with construction activities. The following discharges **would not be** authorized by this general permit:

- a. Discharges from Construction Activities within Indian Country;
- b. Post Construction Discharges: Storm water discharges that originate from the site after construction activities have been completed and the site has undergone final stabilization;
- c. Discharges Mixed with Non-storm Water: Discharges that are mixed with sources of non-storm water other than discharges which are identified in Part 1.5 of this Permit and in compliance with Part 3.5.5 (non-storm water discharges) of this Permit;

- d. Discharges Covered by Another Permit: Storm water discharges associated with construction activity for which an individual permit has been issued, or for which the owner/operator is required to or may obtain coverage under an individual permit or an alternative general permit (*see* Part 2.3 of this Permit), including a general permit issued for areas regulated by a qualified municipal Separate Storm Sewer System Program;
- e. Discharges Threatening Water Quality: Storm water discharges from construction activities that cause or have the reasonable potential to cause a violation of a water quality standard. *See* Part 2.2 of this Permit;
- f. Discharges from commercial construction support and related activities: Storm water discharges from construction support activities unless they are included within the definition in Part 6.6 of this permit;
- g. Spills: This Permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill; and
- h. Discharges that result from violations of this Permit.

PERMIT CONDITIONS: The strategy used in this general permit focuses on source control through the use of Best Management Practices (BMPs). This permit contains provisions that limits the discharge to storm water with some exceptions, that require response conditions to a spill or release in excess of reportable quantities, that requires specific inspection conditions and frequencies, that specify what records shall be retained and for how long and that a storm water pollution prevention plan (SWPPP) be developed and implemented on the construction site before an NOI is submitted. The focus of the permit is the SWPPP which covers the main points listed below:

- a. Site description
- b. Controls to reduce pollution
- c. Maintenance
- d. Inspections
- e. Non-storm water discharges

This approach to permitting has been selected to maintain a degree of conformity with the storm water program used in other states and comments from EPA.

QUALIFYING LOCAL PROGRAM: The DWQ is in the process of developing permits for qualifying local programs, a task expected to be completed by the end of 2008.

PERMIT CHANGES: This permit makes a number of changes from the 2002 General Permit. The most significant are that it describes SWPPP and inspection requirements in

greater detail, better outlines transfer of permit responsibility (Part 4.1.3), and it provides for a partial notice of termination as indicated in Part 4.1.2 of the Permit.

PERMIT DURATION: This permit will expire on June 30, 2013.

This Statement of Basis and Permit was drafted by Mike Herkimer of the Division of Water Quality on April 3, 2008.

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Ogden City

MS4 Related Budget

Storm Water Management Plan 2010



Operation and Maintenance

SWPPP Inspector	\$40,000
Development Engineer (1/4 Time)	\$13,000
Storm Sewer Budget	\$2,566,060
<u>Contribution to Television Advertisement</u>	<u>\$5,000</u>
Total Operational Budget	\$2,624,060

Other One Time Expenses

River Restoration Project	\$2,000,000
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*Information is approximate and further detail is forthcoming

Ogden City

Organization Chart Department Responsibilities

Storm Water Management Plan 2010



Public Works Director

- Liaison with administration and City Council
- General coordination of the Storm Water Pollution Prevention (SWPP) program

City Engineering Division Manager

- Updating SWPPP
- Engineering support
- Annual report
- Help with all reporting
- Storm Drain mapping
- General coordination of the Storm Water Pollution Prevention (SWPP) program

Public Ways and Parks Division Manager

- Responsible for shared facilities and general work areas including:
 - o Large equipment wash area
 - o Fueling station
 - o Salt and materials storage stockpile areas
 - o Storm drain system maintenance
 - o General BMP maintenance
 - o Small vehicle wash area
- Tracking and documentation of activities and actions
- Database updates
- Storm Drain mapping
- Parks dept. maintenance work area
- Pesticide, Herbicide, and Fertilizer (PHF) program
- Training parks personnel
- Chemical and fertilizer storage in work area
- Parks department equipment operation
- Equipment maintenance for parks dept. equipment
- Mowing program
- Streets dept. maintenance work area
- Streets dept. equipment operation
- Equipment maintenance for streets dept.
- Training streets dept. personnel
- Chemicals storage in work area

- Snow plowing program
- Street sweeping program
- Salt and materials storage stockpile areas
- Metal fabrication area

Water Department Manager

- Water dept. maintenance work area
- Training water dept. personnel
- Chemical storage in work area
- Water dept. equipment operation
- Equipment maintenance for water dept. equipment

Fleet and Facilities Manager

- Fleet dept. maintenance work area
- Training fleet dept. personnel
- Chemicals, fluids, and oils in work area, waste oils/fluids
- Metal fabrication area

Storm Water Maintenance Supervisor

- Oversee SWPP program specifics and work with Public Ways and Parks Manager
- Coordination with Development Engineer

Development Engineer

- Oversee SWPP program specifics and work with City Engineering Manager
- Coordination with Storm Water Maintenance Supervisor

Streets Supervisor

- Oversee SWPP program specifics and work with Storm Water Maintenance Supervisor

Solid Waste Supervisor

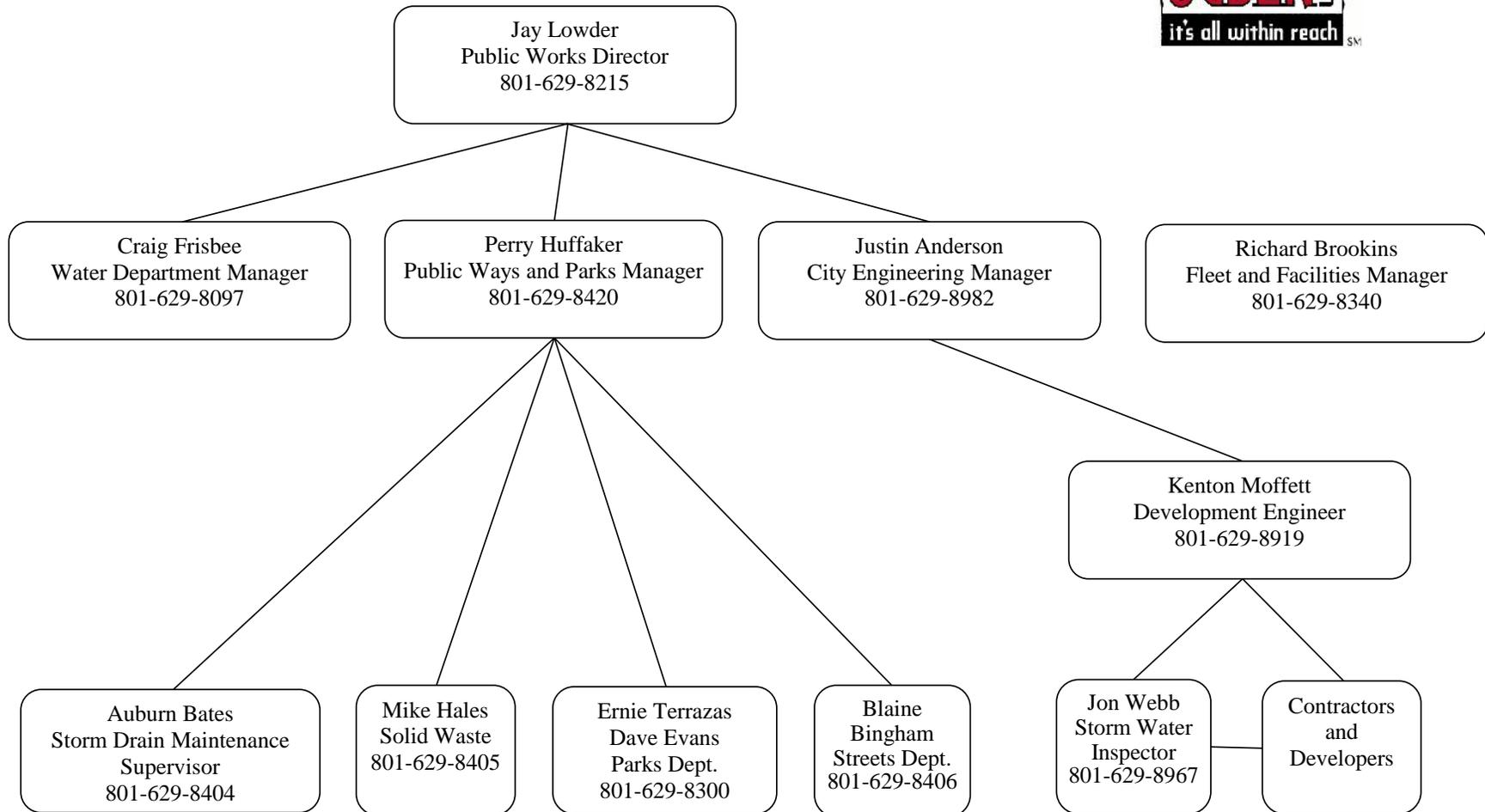
- Oversee SWPP program specifics and work with Storm Water Maintenance Supervisor

Parks Supervisor

- Oversee SWPP program specifics and work with Storm Water Maintenance Supervisor

SWPPP Inspector

- Oversee SWPP program specifics and work with Development Engineer



Ogden City

Delegation of Authority

Storm Water Management Plan 2010



Rhonda Thiele
DEQ/Division of Water Quality
195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870

Ms. Thiele,

I, John Patterson, as the Chief Authorizing Officer for Ogden City authorize that the City Engineer, Justin Anderson, has authority to submit the yearly MS4 report on behalf of Ogden City. The City Engineer is authorized to delegate this responsibility to his staff and has delegated this responsibility to the Development Engineer, Kenton Moffett.

Sincerely,

John Patterson, CAO

Ogden City

Interlocal Agreements

Storm Water Management Plan 2010



Ogden City has entered into an interlocal agreement with Weber County. This agreement provides for the following benefits:

- Weber County Water Fair
- Weber County Fair Booth
- Contractor Training Opportunities
- Registered Storm Water Inspector Training Class
- Curb Marker Decals
- Shared videos for municipal training
- Television Advertisements
- Provides brochures
- Representation at USWAC
- Maintain records of coalition meetings, attendance and agendas

Please see the actual agreement in the appendix for more information.