

DAVIS COUNTY
STORM WATER MANAGEMENT PLAN

Permit No. UTR090003

Submitted to:

**State of Utah
Department of Environmental Quality
Division of Water Quality**

Submitted by:

**Davis County, Public Works
1500 East 650 North
Fruit Heights, Utah 84037**

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DAVIS COUNTY
STORM WATER MANAGEMENT PLAN

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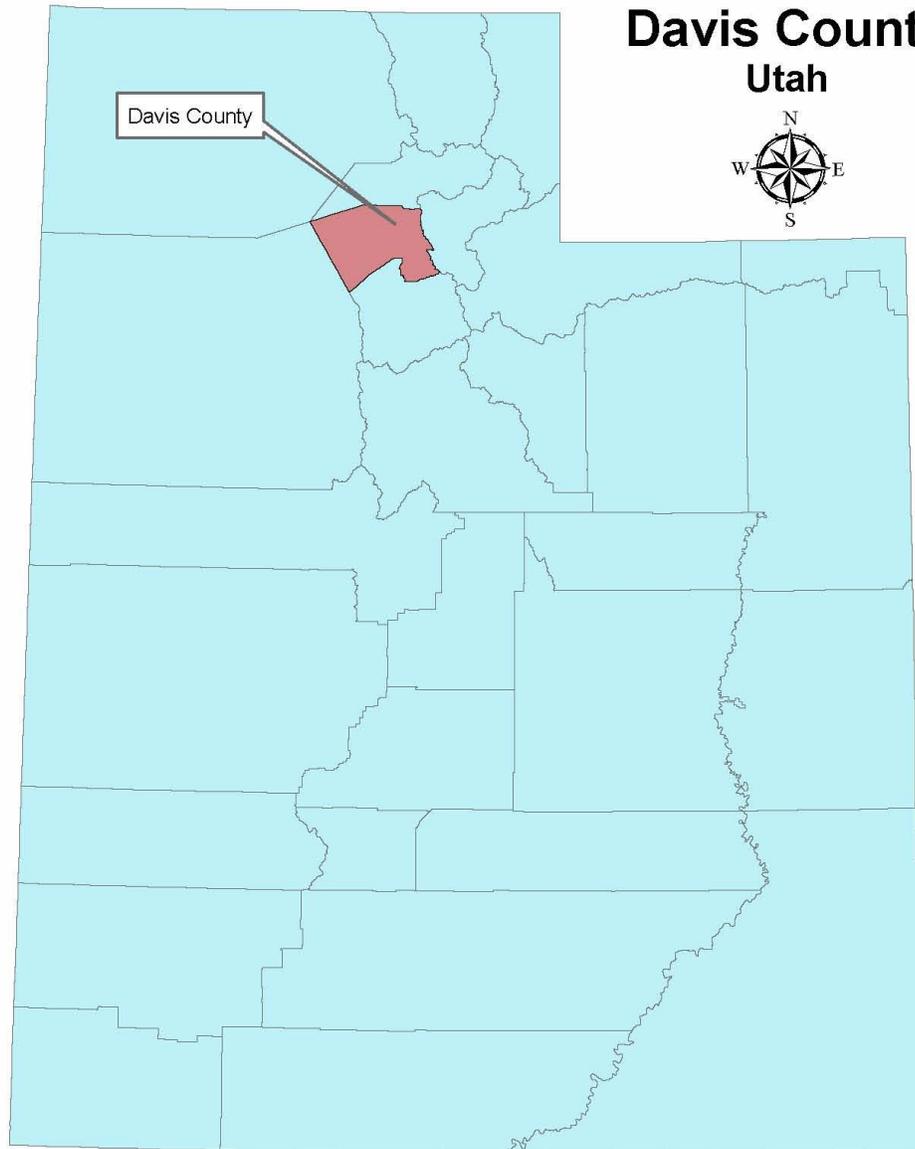
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GLOSSARY

| | |
|-------|---|
| BMP | Best Management Practices |
| EMC | Event Mean Concentrations |
| PHF | Pesticides, Herbicides, and Fertilizer |
| DC | Davis County |
| SWMP | Storm Water Management Plan |
| SWPPP | Storm Water Pollution Prevention Plan |
| UAC | Utah Administrative Code |
| UDOT | Utah Department of Transportation |
| UPDES | Utah Pollutant Discharge Elimination System |

Location of: Davis County Utah



Davis County is Utah's smallest county in land area. It is a narrow strip of land only 223 square miles but is the third largest county in population. An estimated 306,479 residents live in the County's fifteen communities. The County doubled in population between 1940 and 1950, and doubled again in the next decade. Between 1960 and 1980, the population doubled again, from 65,000 to 147,000. By 1990 the population had reached 188,000 and the 2000 census recorded 238,994. Being the fastest growing of the four major urban communities along the Wasatch Front, Davis County is projected to build out with a population of about 360,000 by the year 2030.

Approximate Lat/Long:
N 40° 58.8'
W 111° 53.2'

DAVIS COUNTY STORM WATER MANAGEMENT PLAN

PURPOSE

The Storm Water Management Plan (SWMP) will be implemented to limit the discharge of pollutants from the Davis County storm drain system and to protect water quality. The development and implementation of the SWMP is to fulfill requirements under the state of Utah UPDES Authorization to discharge Municipal Storm Water, in compliance with provisions of the Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated (“UCA”) 1953, as amended (the “Act”).

LEGAL AUTHORITY

Federal

In 1972, Congress enacted the first comprehensive national clean water legislation (Clean Water Act - 33 U.S.C. Chapter 26) in response to growing public concern for serious and widespread water pollution. The Clean Water Act is the primary federal law that protects our nation’s waters, including lakes, rivers, aquifers and coastal areas. The Clean Water Act provides the backbone for the national approach to water quality policy and action. The objective of this federal law is the total elimination of the discharge of pollutants into the nation’s navigable waters and to restore and maintain the integrity of the nation's waters.

Two types of discharges are defined in the Clean Water Act: point and non-point source discharges. Although pollutants entering storm and surface water systems are primarily non-point in nature, discharges from the storm and surface water systems have been defined as point sources (40 CFR Section 122.45). As a result, storm and surface water systems are subject to the permitting process of the Clean Water Acts National Pollutant Discharge Elimination System (NPDES).

NPDES Phase II Storm Water Permit

The NPDES Phase II Storm Water Permit focuses on small municipalities and is issued by the Environmental Protection Agency (EPA). The program’s main objective is to control point source pollution of waterways in urban areas to the maximum extent practicable. The Phase II permit requires the community to prepare a Notice of Intent which describes the Best Management Practices (BMPs) to be implemented to fulfill EPA’s goal of public education and outreach on stormwater impacts, public involvement and participation, illicit connection and illicit discharge detection and elimination, construction site runoff control, post-construction stormwater management in development and re-development, and pollution prevention and good housekeeping of municipal operations.

State

The State Department of Environmental Quality is responsible to oversee the EPA NPDES Phase I and Phase II stormwater regulations and issue Utah Pollutant Discharge Elimination System (UPDES) permits in the State of Utah. The Utah Administrative Code Title R317 – Environmental Quality, Water Quality sets forth the requirements and procedures needed for compliance with state law. Utah Code Title R317-8-3.9 specifically lists the requirements for municipalities to obtain a UPDES permit from the State of Utah.

The UPDES permit will be issued in compliance with the provisions of the Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated 1953, as amended.

County

Davis County is responsible for flood control and maintenance of designated creeks and channels that transverse from the mountains to the Great Salt Lake. Davis County ordinance 01-87 and 02-98 sets forth the policy and procedures used by the County to provide this service.

SWMP COORDINATION

Agency: Davis County, Public Works

Contact: Adam Wright, Director, Phone: (801) 444-2230
 Jason Fielding, Operations Manager, Phone: (801) 444-2230

Each of the 15 cities in Davis County, as well as Hill Air Force Base, will submit a separate notice of intent and a subsequent SWMP to the state. Although each city will be issued a separate permit as defined under the general permit issued to the State of Utah by EPA, they will jointly work together to facilitate (1) public education and participation (2) mapping, (3) employee training, and (4) preparation of similar ordinances. Coordination of the joint activities is done through the Davis County Storm Water Coalition.

SWMP REVIEW AND MODIFICATION

The SWMP will be reviewed on an annual basis and any changes or modifications will be described and submitted to the State Division of Water Quality as part of the Annual Report. This review will include the following:

- A status review of the program implementation and compliance schedule.
- A review of any revision or change of BMPs during the year and an assessment of the effectiveness of such revision.
- An overall assessment of the goals and direction of the SWMP and effectiveness of BMPs

STAFFING AND RESOURCE ALLOCATIONS

Management and oversight of the Davis County Storm Water Management Program is funded by Davis County through the general tax base. Davis County Public Works is responsible to operate and maintain all county roads and twenty (20) designated flood channels.

The Davis County Health Department responds to complaints regarding spills and illegal discharges and follows up on the complaints with tracking and enforcement. The Davis County Health Department also monitors various channels as described in Chapter 3.

WATER QUALITY CONCERNES, PRIORITIES AND MEASURABLE GOALS

Water quality in Davis County is good. We don't have any impaired or protected water bodies located within the county. Some of the biggest concerns Davis County has with water quality is illegal dumping in channels, and sediment loads from natural erosion and runoff from disturbed sites.

The counties drainage system is composed mainly of natural streams and manmade channels which covey mountain runoff as well as collected storm runoff from the cities. The concerns, priorities and goals of this SWMP will be focused on open channel systems and drainage from county owned facilities.

The channels are tested monthly by the Davis County Health Department for multiple types of chemicals, bacteria and sediments. Priority is given to those channels that show increased levels of pollution. Testing Data is available through the Davis County Health Department.

CHAPTER ONE

PUBLIC EDUCATION AND OUTREACH PROGRAM ON STORM WATER IMPACTS

The Public Education and Outreach Program addresses increasing public and professional awareness of water quality concerns and Best Management Practices (BMPs) that will be implemented to prevent storm water pollution. The BMPs described in this section of the SWMP include Davis County coordinating education of the general public throughout the county and training professionals and municipal employees in each city. The education and training programs will introduce the UPDES program and focus on how to eliminate known contaminant sources.

The following BMPs describe implementation tasks, measurable goals, and funding sources for the Public Education and Outreach Program.

REQUIREMENTS

The requirements of Public Education and Outreach on Storm Water Impacts are listed in section 4.2.1 of the small MS4 General UPDES Permit. A copy of the permit is attached in the appendix.

The basic requirement of the public education and outreach control measure is to communicate the impacts of storm water discharges and the steps to reduce storm water pollution. The EPA requires that a public education program be implemented to distribute educational materials to the community, and to conduct outreach activities that explain the impacts of storm water discharges on local water bodies and the steps that can be taken to reduce storm water pollution. The following goals will be included as a part of this program:

1. Inform the public of the need for storm water management and what role they can play.
2. Contribute to a program that promotes, publicizes and facilitates public reporting of the presence of illicit discharges or improper disposal of materials.
3. Contribute to a program that promotes, publicizes and facilitates the proper management and disposal of used oil and household hazardous wastes.
4. Inform public employees, business, and the general public about the hazards associated with the illegal discharges and disposal of wastes.
5. Encourage the proper use, application, and disposal of pesticides, herbicides, and fertilizers by commercial and private applicators and distributors.

FUNDING SOURCES

Employees of Davis County Public Works are responsible to provide the manpower to implement this portion of the Storm Water Management Plan.

DAVIS COUNTY STORM WATER COALITION

Davis County Storm Water Coalition consists of representatives from 15 cities, Davis County, and Hill Air Force Base, whose purpose is to reduce the load of pollutants entering the storm drains and receiving water bodies and to comply with storm water regulations. The coalition meets 10 times a

year, holds a water fair annually, teaches all 4th grade classes in the county about storm water, pays a portion of the cost of Salt Lake Counties TV ads annually, produces educational pamphlets for specific industries that may affect storm water, and contributes to a county wide drainage map.

Davis County will continue to coordinate and provide leadership to the Davis County Storm Water Coalition.

DEMONSTRATION DETENTION POND

Davis County has constructed a small detention pond and grass swales at the Public Works facilities in Fruit Heights. This facility demonstrates how water from shops and parking lots can be effectively detained and used on-site.

COMMUNITY AND RESIDENTIAL PROGRAMS

Promote public reporting of illegal dumping and illicit discharges. The purpose of public reporting is to enable the county or the Davis County Health Department to respond to citizen complaints regarding water quality. Reports may be called into phone number 801 525-5128. Procedures for formal complaints are in place. As necessary, Davis County Public Works will assist the Davis County Health Department to investigate the source of the pollution. Investigations and enforcement measures will be documented by the county.

MEASURABLE GOALS FOR EDUCATION

Goals specified in this chapter will be measured by whether they are completed or not. The SWMP will be reviewed annually for program effectiveness.

CHAPTER TWO

PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

The Public Involvement/Participation Program section of the SWMP addresses the importance of public involvement with respect to protection of storm water. Community participation provides for broader public support, shorter implementation schedules, a broader base of expertise and the development of important relationships with other community and government programs. The BMPs described in this section of the SWMP includes opportunities for the public to play an active role in the development and implementation of the SWMP. Such opportunities include the public notice process and efforts to reach out and engage all economic and ethnic groups, and additional community programs to foster public input.

This program will be integrated with the Public Education and Outreach Program to incorporate education with hands-on programs. The following BMPs describe implementation tasks and measurable goals to be completed by Davis County for the Public Involvement/Participation Program.

REQUIREMENTS

The requirements of Public Involvement and Participation Program are listed in section 4.2.2 of the small MS4 General UPDES Permit. A copy of the permit is attached in the appendix.

Comply with State and local public notice requirements when implementing a public involvement and participation program. Public involvement and participation programs should include steps to foster and include public input in developing, implementing, and reviewing storm water management programs.

The EPA also requires that appropriate BMPs and measurable goals be included as a part of the program. The EPA recommends that the municipality provide opportunities for all economic and ethnic groups to participate in these activities.

FUNDING SOURCES

Employees of Davis County Public Works will be responsible to provide the necessary manpower and funds to implement this portion of the Storm Water Management Plan.

PROPOSED BEST MANAGEMENT PRACTICES (BMPs)

Davis County has elected to implement the following BMPs:

1. Continue compliance with State and local laws regarding the advertisement and notification of public hearings and other related meetings regarding the development and implementation of the Storm Water Management Plan.
2. Use the existing Davis County Storm Water Coalition to give input, feedback and recommendations for each of the Storm Water Management Plans in Davis County.

3. Invite representatives from targeted businesses and the community, such as home builders, landscapers, and parks and recreation staff to meet with the Davis County Storm Water Coalition to obtain input and receive training.
4. Provide a display, panels, brochures, and advertisements for presentations at private, church, school, or civic organizations upon request.
5. Encourage public volunteers to participate in the storm drain curb marking program.
6. Involve the community in clean-ups along local creeks, ditches, and other storm water drainage areas.
7. Promote the Davis County Health Departments hotline to assist officials in identifying polluters and monitor what is entering the local waterways through the storm drain system.

HOTLINE

Davis County will promote public reporting of illegal dumping and illicit discharges. The purpose of public reporting is to enable the county or the Davis County Health Department to respond to citizen complaints regarding water quality. Reports may be called into phone number 801 525-5128 or 801 444-2230. The hotline will be posted online on the public works website as well as the Davis County Stormwater Coalition Website. Procedures for formal complaints are in place. As necessary, Davis County Public Works will assist the Davis County Health Department to investigate the source of the pollution. Davis County will document all investigations and enforcement measures, including any fee penalties.

POST SWMP ONLINE

SWMP information and requirements are available online in sections 12, 14 and 15 of the county code.

Public Notice of SWMP

Public notice is given in the local newspaper in accordance with Utah State Code of stormwater projects.

The table below represents measurable goals that are to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness.

MEASURABLE GOALS FOR PUBLIC INVOLVEMENT AND PARTICIPATON

| GOALS | SCHEDULE | LEAD ENTITY |
|--|-----------------------------------|--|
| Follow guidance for full compliance with State and local laws regarding the advertisement and notification of public hearings. | Annually | Public Works Program Manager |
| Use the Davis County Storm Water Coalition to develop and promote the BMPs associated with the Public Involvement and Participation program. | Annually | Public Works Program Manager and the Davis County Stormwater Coalition |
| Provide each of the 15 city office buildings with information booths. | Annually | Davis County Storm Water Coalition |
| Post updated SWMP online for public review and comment. | Annually w/ project notifications | Public Works Program Manager |
| Give public Notice asking for involvement and participation with the SWMP. | Annually w/ project notifications | Public Works Program manager |

CHAPTER THREE

ILLCIT DISCHARGES AND IMPROPER DISPOSAL PROGRAM

The Illicit Discharges and Improper Disposal Program section of the SWMP addresses non-storm water flows that are discharged to receiving waters via storm water conveyance systems. The program will implement BMPs to assist in the identification of illicit discharges and removal of these discharges from the system. This program will also focus on prevention of new illicit discharges to the storm water system by means of education, regulations, and through spill prevention and response. On a county basis, the Davis County Storm Water Coalition is currently reviewing options to provide a disposal site for used oil, paints, and other toxic wastes at the County Landfill.

This program will also be integrated with the Davis County Stormwater Coalition Public Education and Outreach Program to promote awareness of the importance of protecting the storm water system from illicit discharge and the resultant impact to receiving waters. The following BMPs describe implementation tasks and assessment tasks to be completed by Davis County for the Illicit Discharges and Improper Disposal Program.

REQUIREMENTS

The requirements of Public Involvement and Participation Program are listed in section 4.2.3 of the small MS4 General UPDES Permit. A copy of the permit is attached in the appendix.

Davis County will:

1. Develop a county-wide storm sewer map, showing all of the outfalls and the waters of the State that receive storm water discharges.
2. Enforce current ordinance to prohibit non-storm water discharges into the storm water system.
3. Continue to screen channels and detect and address non-storm water discharges into the storm water system.
4. Promote and assist in the coordination of the establishment of a program to collect used motor vehicle fluids, household hazardous waste materials for recycle, reuse, or safe disposal.
5. Promote Davis County Health Department Hotline.
6. Document any illicit discharges detected.

STORM DRAIN SYSTEM MAP

Davis County maintains a county-wide storm drain map in order to allow representatives of each city or county to determine the source and extent of both the wet and dry weather flows, and the particular water bodies these flows would affect.

DRY WEATHER SCREENING PROGRAM

Davis County Health Department provides dry weather screening program to detect and address illicit discharges. Dry weather screening consists of water sampling and testing at a minimum of

annually. Dry weather screening provides a framework to identify pollutants, which in turn, will initiate a more detailed investigation within the drainage area.

Any dry weather flows that are identified will be traced to their source. Investigations or enforcement actions will be documented.

HAZARDOUS WASTE DISPOSAL

Davis County shall promote and assist in the coordination of the establishment of a county-wide program to collect used motor vehicle fluids, household hazardous waste materials for recycle, reuse, or safe disposal. A collection site may be located at the landfill in connection with a disposal site for waste material collected from the storm drain system.

The table below represents measurable goals that are to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness.

MEASURABLE GOALS FOR ILLICIT DISCHARGES AND IMPROPER DISPOSAL PROGRAM

| GOALS | SCHEDULE | LEAD ENTITY |
|---|-----------------|--|
| Maintain county-wide storm drain map. | Annually | Public Works Program Manager |
| Complete a dry weather review of all major channels. | Annually | Public Works Program Manager Davis County Health Department |
| Report findings of illicit discharges to Davis Co. Health Department. | As needed | Public Works Program Manager |
| Continue participation in the Davis County Storm Water Coalition. | On-going | Public Works Program Manager |
| Enforce Current Illicit Discharge Ordinance | On-going | Davis County Program Manager |
| Train Public Works Employees On illicit discharge detection | Annually | Public Works Program Manager |

CHAPTER FOUR

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM

Generally Davis County is not involved in land development. Proposed residential and commercial land developments in the unincorporated portions of the county are generally required to annex into the adjoining city in order to obtain water service. There are several areas that were developed many years ago in the unincorporated portions of the county, that use either an agreement with the adjoining city, special service district, or private wells to supply water.

REQUIREMENTS

The requirements of Public Involvement and Participation Program are listed in section 4.2.4 of the small MS4 General UPDES Permit. A copy of the permit is attached in the appendix.

Davis County will:

1. Notify all construction permit applicants of the responsibilities under the UPDES permitting program.

PERMIT APPLICATION AND STORM WATER POLLUTION PREVENTION PLAN

Goals and Criteria

1. The proposed measures and controls shall be designed to prevent or minimize, to the maximum extent practicable (MEP), the discharge of sediment, debris and other construction-related pollutants from the construction site by storm water runoff into the storm drain system.
2. The proposed measures and controls shall be designed to prevent or minimize, to the MEP, the deposit, discharge, tracking by construction vehicles, or dropping of mud, sediment, debris or other potential pollutants onto public streets and rights-of-way. Any such discharge shall be cleaned up and removed immediately upon notification to the permittee or when it otherwise comes to the attention of the permittee. At a minimum, the deposit or discharge shall be cleaned and removed at the end of the work shift in which the deposit occurred, or at the end of the work day, whichever comes first.
3. The proposed measures and controls shall be designed to preserve existing vegetation, where possible. Disturbed portions of the site shall be stabilized. Stabilization practices may include temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Use of impervious surfaces for stabilization should be avoided. Stabilization measures shall be initiated as soon as practicable in disturbed portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased, except under the following circumstances:

- (a) If the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or frozen ground conditions, stabilization measures shall be initiated as soon as practicable; or
 - (b) If construction activity on a portion of the site is temporarily ceased, and earth disturbing will resume within 21 days, temporary stabilization measures need not be initiated on that portion of the site.
4. The proposed measures and controls shall be employed to minimize the risk of discharge of construction-related pollutants (such as paint, thinners, solvents and other chemicals) from the construction site. Such measures may include implementation of storage practices to minimize exposure of the material to storm water as well as spill prevention and response.

SITE PLAN REVIEW

Davis County personnel who currently review site plans will be trained through the Davis County Storm Water Coalition to evaluate storm water controls. Guidelines for appropriate erosion and sediment control measures will be part of the personnel training.

ORDINANCE FOR CONSTRUCTION SITE

Davis County has develop an ordinance with requirements for construction operators to use erosion and sediment controls and maintain appropriate structural and non-structural BMPs to reduce pollutants discharged during times of soil disturbances or excavation activities, along with penalties to enforce and ensure compliance. In addition, develop requirements for operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at the site that may cause adverse impacts to water quality.

A construction site permit will be required for construction activities in accordance with the proposed ordinance. For the purposes of this permit, construction activities are defined as activities that change the volume or peak flow discharge rate of rainfall runoff from the land surface. This may include the grading, digging, cutting, scraping, or excavating of soil, placement of fill materials, paving, construction, substantial removal of vegetation, or any activity which bares soil or rock or involves the diversion or piping of any natural or man-made watercourse. The required information to obtain this permit is listed on the following page.

An erosion control plan must be submitted for review and approval prior to commencing grading operations. The plan is intended to prevent erosion during the construction phase by implementing various erosion control measures as appropriate. Such measures may include temporary silt or sediment fences, sediment traps and detention ponds, temporary and permanent vegetation, etc.

In addition, the permit requires operators to control waste, such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste, and other construction-related pollutants at the site that may cause adverse impacts to water quality.

PUBLIC REPORTING

As noted in the educational section of the SWMP, Davis County will promote public reporting of illegal dumping and illicit discharges. The purpose of public reporting is to enable the county or the Davis County Health Department to respond to citizen complaints regarding water quality. Reports may be called into phone number 801 525-5128. Procedures for formal complaints are in place. As necessary, Davis County Public Works will assist the Davis County Health Department to investigate the source of the pollution. Davis County will document all investigations and enforcement measures, including any fee penalties.

CONTRACTOR EDUCATION

Davis County Stormwater Coalition has an annual contractor training to educate contractors of the importance of the use of proper BMP's and water quality. Contractor education on storm water issues will be crucial in minimizing storm water pollution during construction activities.

Guidance Document for Storm Water Management: Salt Lake County has developed a guidance document of BMPs which includes a chapter specifically for construction site BMPs. The document is available from Salt Lake County's web site. A copy of the document is attached in the appendix.

Additional Guidance Documents: EPA's *A Storm Water Management for Construction Activities: Developing Pollution Prevention plans and Best Management Practices* and other appropriate publications will be made available. A copy of the document is attached in the appendix.

UPDES CONSTRUCTION PERMIT NOTIFICATION

Notify all construction permit applicants of their potential responsibilities under the UPDES permitting program for construction site runoff. Procedures for notification of UPDES permit requirements will be developed. Making construction permit applicants aware of UPDES permit requirements for constructions activities will be beneficial in minimizing storm water pollutant runoff from such sites.

CHAPTER FIVE

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT PROGRAM

As mentioned in the previous chapter, Davis County is not involved in land development. Proposed residential and commercial land developments in the unincorporated portions of the county are generally required to annex into the adjoining city in order to obtain water service. There are several areas that were developed many years ago in the unincorporated portions of the county, that use either an agreement with the adjoining city, special service district, or private wells to supply water.

This program will also be integrated with the Construction Site Stormwater Runoff Control Program and the Pollution Prevention/Good Housekeeping Program of the SWMP to provide information and up-to-date BMPs to the end user.

REQUIREMENTS

The requirements of Public Involvement and Participation Program are listed in section 4.2.5 of the small MS4 General UPDES Permit. A copy of the permit is attached in the appendix.

Davis County will:

1. Ensure adequate long-term operation and maintenance of BMPs.

POST-CONSTRUCTION MAINTENANCE

Continue to use procedures to ensure long-term operation and maintenance of storm water controls at post-construction sites for both privately-owned and county-owned storm drain facilities. Prior to final development approval, this procedure clearly defines whether the county, homeowners association, or a special service district has the responsibility to operate and maintain the storm drain facilities. Proper operation and maintenance of the control measures will help to minimize pollutants in storm water runoff.

EASEMENTS TO FLOOD CONTROL CHANNELS

As stated in the current Davis County Flood Control Ordinance 02-98, adequate right-of-way must exist or be conveyed to Davis County to allow at least 20 feet of flat ground on either side of the channel. Areas within the right-of-ways must remain open. No permanent structures, including fencing, will be allowed in the right-of-ways. A copy of the ordinance is attached in the appendix.

CHAPTER SIX

POLLUTION PREVENTION/GOOD HOUSEKEEPING PROGRAM

The Pollution Prevention/Good Housekeeping Program of the Storm Water Management Plan addresses routine activities in the operation and maintenance for drainage systems, roadways, parks and open spaces, and other municipal operations to help ensure a reduction in pollutants entering the storm drain systems. The program will implement BMPs to address specific roadway practices which include snow removal, deicing, salt pile management, and road crew training. This program will also focus on storm drainage system maintenance, structural floatable controls, maintenance yard practices, flood control projects, litter ordinance development, pesticide, herbicide and fertilizer program and spill prevention and response.

This program will also be integrated with the Public Education and Outreach, Public Involvement/Participation and Illicit Discharges and Improper Disposal Programs to promote awareness of water quality concerns in performing routine roadway maintenance and operation, and other practices. The following BMPs describe implementation tasks and assessment tasks to be completed by Davis County for the Pollution Prevention/Good Housekeeping Program.

REQUIREMENTS

Davis County will:

1. Develop and implement an operation and maintenance program that will allow trained county employees to collect pollutants originating from parks, open spaces, fleet maintenance shops, construction sites, parking lots, public streets, and the storm water system that would otherwise enter the waterways of the state.
2. Coordinate employee training with training used to educate the general public and targeted businesses in the outreach, public participation, and illicit discharge program.
3. Review and analyze existing maintenance activities, schedules, and procedures used to control pollutants.
4. Develop procedures to properly dispose of waste materials collected from the county storm drainage system.
5. Assess both existing and new flood control facilities with respect to their impact on water quality.

STORM DRAIN SYSTEM MAINTENANCE

Davis County Public Works personnel inspect flood channels regularly or when any problems are reported.

Maintenance items include:

- Inspect channels and sediment basins.
- Vegetation and weed control.
- Drainage structure repair and replacement.

SNOW REMOVAL

Davis County has a policy to keep all roads open and free of snow or ice pack during every storm. The salt application rate is based on the temperature and snow pack conditions on the road surface

accordingly. It is the objective of Davis County to operate snow removal procedures in a manner to reduce the discharge of pollutants without compromising motorists' safety. Equipment is maintained and calibrated to apply salt efficiently and effectively.

STORM DRAIN SYSTEM WASTE DISPOSAL

Review and assess current disposal procedures for waste removed from the storm drain system. Such wastes include dredge spoil, accumulated sediments, floatables and other debris. Controls for reducing or eliminating the discharge of pollutants from areas such as roads and parking lots, maintenance and storage yards and waste transfer stations will help to reduce the discharge of pollutants to receiving waterbodies.

It is the intention of Davis County to work with other communities to create a county-wide disposal system for the proper removal and disposal of waste from the storm drain system to reduce the discharge of pollutants to the MEP. This site could also provide disposal for household hazardous materials like paint, pesticides, and oils as stated on page 14, concerning illicit discharges.

ROAD CREW TRAINING

Public Works employees are trained in:

- Equipment operation
- Safety education

POLLUTION PREVENTION PRACTICES FOR MAINTENANCE YARDS

A SWPPP has been created for the Public Works Yard for the State Industrial Stormwater Discharge Permit. The current SWPPP contains a written inventory of permittee owned facilities and a list of potential pollutants. Pollution prevention measures at equipment yards and maintenance facilities. Proper controls and procedures at these locations will help to control polluted runoff. The Davis County Public Works facilities have been constructed with a wet detention pond and swales to treat the storm water. The shops and washing bays drain into an oil and grease separator before flowing into the sewer. Alternative BMPs will be implemented as appropriate to minimize pollutants entering storm drain system from these facilities. A copy of the SWPPP is available upon request at the Public Works Office in Fruit Heights.

FLOOD CONTROL PROJECTS

Assess new and existing flood control projects with respect to water quality concerns and modify capital improvement projects as necessary. In order to accomplish this, the flood control permit checklist will contain a section for water quality review. Incorporate additional BMPs to reduce storm water pollutants as appropriate. Personnel training will be a component of this program.

PESTICIDE, HERBICIDE, AND FERTILIZER PROGRAM

Maintain current inventory, evaluate pesticide, herbicide and fertilizer usage on Davis County properties by municipal employees. Current BMPs will be evaluated and implemented as

appropriate to reduce the discharge of pollutants related to the application of pesticides, herbicides and fertilizers applied by municipal employees or contractors to public right-of-ways, golf courses, and other municipal facilities.

Davis County will assess and evaluate application procedures and rates, and implement BMPs to reduce the discharge of pollutants related to these activities. Potential alternative PHFs will be evaluated to minimize the discharge of pollutants to storm water from PHF procedures and practices.

SPILL PREVENTION AND RESPONSE PROGRAM

Maintain current Emergency Response Program. Maintain personnel on-call to respond to reports of spills or discharges, and to identify and investigate the source of the discharge and use the regulatory authority to take enforcement actions against violators to correct the illicit discharge activity. Local fire departments are also equipped to respond to spills, to mitigate spills, and to eliminate the danger to human health. The current program will be evaluated for effectiveness, and will be modified as necessary. Personnel training is an important component to this program.

MONITORING, RECORD KEEPING, AND REPORTING

The streams and channels located in Davis County do not have TMDL approved limits. Davis County Environmental Health Department in cooperation with Weber Basin Water Quality Laboratory currently monitors eighteen streams or discharge points at least quarterly. The sampling points are described as follows:

| | |
|--|--------------------------|
| Lower Mill Creek | Lower Stone Creek |
| Lower Farmington Creek | Lower Kays Creek |
| Lower Kays Creek near Hill Field Drain | Lower Holmes Creek |
| North Canyon Creek | West Gentile Drain |
| Upper Holmes Creek | Upper Mill Creek |
| Upper Stone Creek | Upper Deuel Creek |
| Upper Bernard Creek | Upper Farmington Creek |
| Lower Bernard Creek | Upper S. Fork Kays Creek |
| Storet #499010 | Storet #499020 |

The sites are sampled for chemistry, nutrients, and total metals.

The county has archived the sampling results, which provides a baseline reference for future investigations. As the Storm Water Management Plans are implemented, the sampling results may be reviewed and water quality trends established.

The Davis County Health Department staff will conduct periodic visual water quality monitoring and if obvious illicit discharges are noted, further investigation measures will be implemented to locate the source.

The sampling records are kept in the offices of the Davis County Environmental Health Department, located at 22 South State St., Clearfield, Utah.

ANNUAL REPORT

In accordance with UPDES permit requirements Davis County will submit an annual report showing data accumulated throughout the reporting year with conclusions concerning the data and if the permit objectives are being met. This report will also document BMP activities conducted throughout the year. The annual report will be submitted by April 1 of the following year.

Annual Report: The Annual Report will include the following:

- A status review of the program implementation and compliance schedule
- A review of any revision or change of BMPs during the year and an assessment of the effectiveness of such revision.
- An overall assessment of the goals and direction of the SWMP and effectiveness of BMPs.
- Current copy of the Appendices of the Permit.
- Annual expenditures for permit compliance and projected budget for the next year.
- A summary describing the activities, progress, and accomplishments in each of the BMPs

MEASURABLE GOALS FOR POLLUTION PREVENTION/GOOD HOUSEKEEPING PROGRAM

GOALS:

- Improve and rebuild vital stormwater infrastructure.
- Review existing operation and maintenance procedures and practices.
- Prioritize system areas of concern (high use/frequent cleaning.)
- Determine inspection schedule needs.
- Provide personnel training regarding water quality and pollutants.
- Continue snow removal practices and procedures to minimize pollutants.
- Assess current flood control permit program with regards to storm water quality.
- Evaluate application procedures and rates for pesticide, herbicide and fertilizer usage.
- Prepare annual report