

# DEPARTMENT OF ENVIRONMENTAL QUALITY

## DIVISION OF WATER QUALITY

### FY 2006 GOALS

#### End-of-Year Report

#### **Mission:**

Protect, maintain and enhance the quality of Utah's surface water and ground water to allow appropriate beneficial uses, and protect public health while giving reasonable consideration to economic impacts.

1. Foster integrated information management and 24 hour service through the Internet.<sup>EIMI</sup>

#### **Measures:**

- a. Complete enhancements to the ground water compliance database to allow electronic reporting of DMRs and generation of compliance reports. (Rob; will require funding for future IT contract) The contractor who constructed the current database is no longer in business and the obsolete software can no longer be supported or modified internally or by IT contractors. Management has decided that resources will be more efficiently expended by: 1) utilizing the geospatial Arc GIS database currently being developed by AGRC and DEQ/DWQ with associated analytical GIS tools for the UIC Program; and 2) Utilizing the existing STORET database as a data repository for ground water quality data.
- b. Make modifications and progress in getting data into our surface water database and enhance user access
  - 1) Electronically transfer periphyton, phytoplankton and macro invertebrate data to the system (ongoing Arne)
  - 2) Transfer chemical data from state laboratory (ongoing Arne)
  - 3) Transfer all data to storet (ongoing Arne)
  - 4) Add physical parameter data from cooperators to state database (ongoing Arne)

**STATUS:** *1-4: All electronically delivered data has been transferred to its appropriate destination.*

- c. Continue the PCS/ICIS migration by following the work plan developed by EPA. (Ongoing Edith)

**STATUS:** *Migration is complete as of June 2006, but continued work will be necessary to populate all RIDE requirements and correct anything that needs to be rectified or completed in ICIS. Education will be ongoing to learn how to create reports and to adapt to the renaming of data fields and their location in Business Objects.*

*This migration has been completed.*

- d. Insure that all public notices for permits and Water Quality Board Agendas are noticed on our web site (Ongoing - Faye & Section Managers)

**STATUS:** *Implementing procedures to ensure this is done late 2006.*

2. Implement Core Programs in an efficient and professional manner.

**Measures:**

- a. Develop a consistent customer feedback mechanism for the entire division. (Branch Managers, December 1, 2005)

DWQ is in the process of developing a feedback questionnaire. The questionnaire should be completed by December 31, 2006. It is part of the Governor's "Balanced Scorecard" reporting mechanism to track effectiveness and performance of various government offices.

- b. Operate programs in a manner to facilitate customer satisfaction as evidenced by minimizing complaints, permit appeals, etc., and maximizing positive feedback. (Ongoing)
- c. Implement programs effectively in accordance with rules and statute to protect water quality. (Ongoing)
- d. Maintain an effective working relationship with EPA and local health departments. (Ongoing)
- e. Maintain a streamlined one-stop energy permitting approach under coordination of DEQ. (Ongoing, Rob, Ed, John K, Mike Herkimer.)

3. Implement the Phase II Stormwater Program.

**Measures:**

- a. Continue outreach/education activities. (Ongoing)

**STATUS:** *Ongoing*

- b. Resolve difference with EPA on inspections. (Mike Herkimer, 1/1/2006)

**STATUS:** *Completed*

- c. Engage DWQ staff, District Engineers and municipal and county staff to assist with inspections. (Tom Rushing, 3/1/2006)

**STATUS:** *Ongoing*

- 4. Implement the Utah AFO/CAFO strategy.

**Measures:**

- a. Develop a short, easy to read fact sheet to summarize progress. (10/1/05 Rand)

**STATUS:** *This activity was completed on time.*

- b. Promote partner funding and resources for potential CAFOs. (Ongoing Mike R.)
- c. Track annual progress of potential CAFOs and take appropriate actions. (4/01/06 Don)

**STATUS:** *Since the beginning of the strategy 2,056 animal feeding operations have been inventoried. Of the 2,056 AFOs 395 are potential CAFO's. Up to December 31, 2005, through the efforts of the partnership of the Utah Strategy, 355 PCAFOs have comprehensive nutrient management plans (CNMP) and 162 PCAFOs have fully implemented their CNMP for compliance.*

*The partners continue to work with the PCAFOs to provide cost-share assistance, to develop CNMPs, and design and help implement waste management systems. PCAFOs have priority in obtaining funding due to the higher probability to discharge than a permitted CAFO. Permitted CAFOs are required to have a CNMP three years from permit issuance and have the CNMP implemented within five years. The majority of the CAFOs in Utah received permit coverage in 2001.*

- d. Prepare and distribute a progress report on the AFO/CAFO Strategy. (6/01/06 Mark Peterson and Don) Mike R. will report information to the Utah Water Quality Board.

**STATUS:** *A progress report up through December 31, 2005 was provided by Mark Peterson of the Utah Farm Bureau in February 2006. STATUS: Such progress report were given last year to the WQ Board and will be given this year perhaps by March '07 after receipt of the Annual Implementation Progress report from Utah Farm Bureau..*

- e. Implement UPDES coverage of ground water permitted CAFOs. (Ongoing Don Hall and Rob)

**STATUS:** *All CAFOs with ground water permits also have UPDES CAFO permit coverage.*

5. Accomplish an effective program for completion and implementation of TMDLs.

**Measures:**

a. Complete and track scheduled TMDLs for listed waterbodies according to approved TMDL submission schedule. (Semi-annual in May and November, Carl) The current submission schedule is shown below. Any waters listed will comply with EPA guidelines to complete TMDLs within a 12 year window. Currently all listed waters since 1998 are scheduled for completion by 2012 inclusive of those listed in 2004.

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Annual% Goal	4%	4%	4%	4%	12%	12%	12%	12%	9%	9%	9%	9%
Cumulative% Goal	4%	8%	12%	16%	28%	40%	52%	64%	73%	82%	91%	100%
% TMDLs Completed		<b>18%</b>		<b>36%</b>		<b>65%</b>		<b>82%</b>				

b. Incorporate by reference into Utah’s water quality standards all approved TMDLs within 120 days after the notification of approval by EPA. (Ongoing Carl)

*Awaiting TMDL approval from EPA (6/7/06)*

c. Utilize existing in-house procedure to insure appropriate waste load and permitting assumptions and policies are incorporated into TMDL development for determination of facility WLAs. (Ongoing Carl)

**STATUS:** *Appropriate WLA limits based on new site specific criteria for TDS are currently being determined for Consol and SUFCO coal mines on Quitchupah Creek.*

d. Watershed coordinators will monitor and manage implementation activities for completed TMDLs by establishing implementation milestones, identifying milestone leaders and tracking their completion. Tracking reports will be submitted to Division of Water Quality management annually on January 15. (Carl) <sup>WTR</sup>

**STATUS:** *Completed*

e. Maintain sound fiscal management of contracts by tracking contract amount, expenditures to date and availability of funds to meet obligations via quarterly reports. (Ongoing Carl & Stacy)

**STATUS:** *Contract tracking is ongoing.*

- f. Maintain, track and report on the status of TMDL progress in support of Utah's Long-Term TMDL Submission Schedule. (November and May of each year Carl)

**STATUS:** *Completed, several presentations were given to various groups on the status of the Long Term TMDL Schedule including the Water Quality Board, Utah Watershed Coordinating Council and the River Basin Coordinating Committee.*

- g. Develop analytical components of the TMDL/GIS database for acquisition of water quality data by DWQ staff, other governmental agencies and the general public. (Carl & Jim H.6/1/06)

**STATUS:** *A contract with Tetra Tech has been developed for analytical enhancements to the Utah Data Assessment and Integration Tool (UDAIT).*

- h. Hire level IV Scientist to assist with development of WLAs and UAAs. (Harry Judd, 11/1/2005)

**STATUS:** **Completed**

Effectively implement the DEQ initiative on subdivisions and growth with local health departments by completing a model ordinance (Bill Damery, 6/1/2006).

**STATUS:** *75% complete. Continually providing local governmental training through partnerships on recent changes in Utah land use law, "Addressing Water Issues in the Subdivision Approval Process" was the major theme in the 2006 Annual Water Planning Conference. Presently at the printers is the updated "1999 Citizen Planners Guide to Subdivision Development". When the guidance document is printed, it will be distributed to every town, city and county planning official in Utah.*

7. Establish an effective Monitoring Program. <sup>RGI</sup>

**Measures:**

- a. Prepare a DWQ annual monitoring plan for chemistry, bioassessment, physical habitat, fish, fish tissue and pathogens based upon needs and use of the data. (4/15/06 Richard & Tom) DWQ completed an annual monitoring plan for DWQ monitoring activities. The monitoring plan is based on the factors listed but an overriding factor is the resource constraints on the monitoring program.
- b. Establish a strategy with milestones and schedule to develop the necessary metrics and evaluation procedures to utilize and interpret biological data in Utah. (3/01/06 Richard & Jeff)

**STATUS:** *Preliminary Multimetric Index has been created, reference data have recently been augmented and an update to this tool is ongoing. A RIVPACS-type empirical model is in process.*

- c. Sample 50 potential reference and other sites needing further study for 305b or TMDL's. (10/31/05 Richard) DWQ has completed the gathering of reference data needed in support of the biological-physical-chemical methodology for assessment purposes. There will be an ongoing component of our monitoring program that will allow for refinement of data at current sites and expansion of sites as needed for reference conditions and assessment of programmatic needs.
- d. Work with EPA to develop the long-term (ten years) monitoring and assessment strategy plan for Utah. (9/30/05 Tom T./Richard)

STATUS: Strategic Monitoring Plan completed and sent to EPA (9/30/06).

- e. Download from EPA the remaining EMAP data upon availability for use in assessments. (Ongoing Jeff/Arne)

**STATUS:** *All data associated with the EMAP project have been downloaded. Appropriate portions are being incorporated into STORET, otherwise data are housed in the biological assessment database.*

- f. Establish strategy for utilization of an increase of 106 funding to enhance existing monitoring program. Potential considerations may include: temporary positions for the Utah Health Laboratory to increase nutrient analysis capacity, purchase of laboratory equipment, testing for fish tissue toxicity, increased bacteriological monitoring, or the establishment of long-term flow monitoring stations. (Richard 9/15/05) A final long-term monitoring strategy was submitted to EPA during the year and a revision was submitted as part of our agreement in September, 2006.
- g. Initiate development of measures for characterizing the beneficial use of the wetlands of Great Salt Lake. Biological measures include, but are not limited to vegetation, macroinvertebrates, and phytoplankton. Coordinate with the Department of Natural Resources of HGM and wetland reference sites. This effort contributes to the watershed planning in the Great Salt Lake Basin. EPA will provide technical assistance. (Theron Miller, 10/1/2006)

**STATUS:** *Beneficial use assessment first requires development of site-specific criteria. Initial focus is on nutrient loads to Farmington Bay wetlands. Wetlands nutrient criteria development is on schedule. Several biological and chemical parameters have been measured seasonally at 35 sites for three years. Appropriate metrics are now being developed. These will be retested during 2007 with initial draft criteria proposed in spring, 2008.*

- h. Establish or renew contracts with bug lab (macroinvertebrates) and Dr. Sam Rushforth (periphyton & phytoplankton). (7/01/05 Jeff/Richard)

**STATUS:** *Completed.*

- i. Develop a mercury monitoring component as part of the long-term monitoring strategy but initiate mercury sampling for areas with reported elevation levels the summer of 2005. (John Whitehead, 12/1/2005)

**STATUS:** *Collection and analysis of over 800 fish was completed in FY 2006. Additional mercury areas of concern are being evaluated by the Dept. of Health for consumption advisories.*

1. Develop protocol for listing of impaired waters. (John Whitehead/Tom Toole, 3/1/2006) In process.
  2. Developing monitoring criteria. (John Whitehead/Richard Denton, 8/1/2006) A standard operation procedure was developed for fish collection, sample handling, and processing.
  3. Establish a workgroup to provide guidance and recommendations for the mercury monitoring program. (John Whitehead, 8/1/2005) Input has been solicited from the Statewide Mercury Workgroup. Coordination with Wildlife Resources personnel is ongoing in collection of fish for mercury analysis.
  4. Participate in the issuing of mercury advisories as needed. Ongoing
8. Improve and Enhance DWQ Employee Resources measures.

**Measures:**

- a. Insure that all DWQ employees receive DEQ training (as scheduled) (Ongoing Branch Mgrs & Faye) Completed
- b. Effectively utilize incentive awards and ASIs to recognize employees. (Ongoing) DWQ has been very active in submission and negotiation of these types of awards and promotions in recognition of employee performance.
- c. Establish and implement a Division tracking system for P.E. continuing education requirements and report progress to DEQ annually. (9/1/05 Stacy & Acct. Tech) Completed
- d. Provide cross-section and Division orientation for each new employee. (Ongoing) On-going
- e. Provide every employee with at least one professional annual development training opportunity and track annually. (Liz Taylor, Ongoing) To the extent resources allow, this task is being completed.

- f. Utilize the Employee Committee to conduct “Brown Bag” seminars, oversee the suggestion box and facilitate the implementation of continuous improvement opportunities. (Ongoing) Completed, occurs on a regular basis and has been very effective and well attended.
  - g. Develop new employee handbook to acquaint new and existing staff with current policies and procedures (12/31/05 Stacy) The handbook has not been completed but we are currently working with the employee committee to complete the development of the handbook.
9. Maintain a successful underground wastewater disposal system program.

**Measures:**

- a. Maintain a positive working relationship with the LHDs. (Ongoing)
  - b. Continue to work with USU to provide an effective training, certification and continuing education program. (Ongoing, Kiran)
  - c. Work with the on-site wastewater committee, develop a schedule of actions (including rulemaking and any other activities) needed to move this program forward. (Plan and schedule by 8/30/05 Kiran)  
STATUS a-b: Completed
10. Complete necessary rulemaking with effective stakeholder involvement.

**Measures:**

- a. Modify 317-4 to allow RGF treatment systems. (9/30/05 Kiran)
- b. Modify 317-1, effluent reuse rules to allow a BOD/TSS variance for Type II water and to change monitoring requirements. (John Kennington, 11/1/2005)

**STATUS:** *Completed.*

- c. Prepare a strategy including milestones and dates to complete NPS management plans for Mining and Stormwater. (9/30/05 Mike R., Mike H., & Rob)

**STATUS:** *This measure is behind schedule due to other workload priorities and staff changes. A rough draft of the Stormwater Plan has been prepared. The review has been delayed due to other work assignments of the NPS coordinator. The present goal is to have a Plan ready to send to EPA by July 2007. The Draft Plan for abandoned mines needs to be revised pursuant to public comments and revised. It will then be Public Noticed the second time with a wider distribution to interested parties. The intent is to finalize the Plan by March '07 and submit to EPA for approval.*

- d. Modify Rules to adopt TMDLs by reference. (Ongoing with TMDL approvals, Carl)

**STATUS:** *Awaiting TMDL approval from EPA (6/7/06)*

- e. Establish a written enforcement guidance policy with EPA comment for CAFOs and biosolids. (TBD, Mike H.) At the May 18, 2005 mid-year meeting with EPA, Diane Sipe indicated that the Enforcement Agreement has become obsolete and needs to be revised. Dianne Sipe recommended that we wait until the SNC wet weather criteria have been developed before revising the Enforcement Agreement.

**STATUS:** *A revision of the Enforcement Agreement has been scheduled under the FY 2007 PPA.*

- f. Initiate the development of rules for Use Attainability Analysis (UAA). (Dave Wham / Carl 11/1/05)

**STATUS:** *In progress, draft UAA guidance is being reviewed by management (12/1/06).*

- g. Develop rules for the development of the 303(d) List of Impaired Waters. (Mike/Tom 4/1/05)

**STATUS:** *In progress, final draft of assessment guidance to be completed Dec. 4, 2006, and rules developed from this guidance*

- 11. Coordinate with GOPB to assist communities with proper planning for the impacts of growth on wastewater needs as a part of Quality Growth planning.

**Measures:**

- a. Review and comment upon the wastewater management section of each community's Quality Growth plan. Perform the review using the checklist developed for a model sewer management plan. (Ed Macauley, Ongoing)
- b. Revise and update the MWPP and foster increased participation. (Ongoing Paul)
- c. Allocate funding for good wastewater infrastructure planning. (Ongoing Ed)
- d. Strengthen community outreach activities. (Ongoing Ed, Shelly)

**UIC PERFORMANCE PARTNERSHIP GRANT AGREEMENT  
FY 2006**

The Utah Department of Environmental Quality, Division of Water Quality (Utah DWQ), certifies that it maintains and implements an adequate Underground Injection Control (UIC) Program under Section 1422 of the Safe Drinking Water Act (1422 UIC Program) in conformance with federal and state laws, regulations, and conditions set forth in program authorization (delegation) documents.

As long as the Utah DWQ maintains an adequate 1422 UIC Program, the Regional Administrator of the United States Environmental Protection Agency (USEPA) Region VIII and the Director of the Utah Division of Water Quality agree this Agreement shall remain in effect, except as amended through mutual agreement.

Grant dollars awarded by the USEPA may be used by the Utah DWQ to perform core program activities to adequately maintain its 1422 UIC Program, even when these activities are not specifically defined by goals, measures, and/or reporting requirements.

**CORE PROGRAM ACTIVITIES**

Utah DWQ agrees to conduct core program activities as described in and as evidenced by the submittal of the UIC Program reports itemized in Table I.

USEPA agrees to provide the following support to the Utah 1422 UIC Program:

1. One annual midyear review of Utah 1422 UIC Program.

Candace Cady, Harry Judd, Rob Herbert and Brianna Ariotti completed annual midyear program review with Douglas Minter on April 19, 2006 at the EPA Region 8 and 10 Ground Water Conference in Springdale, Utah.

2. Technical training, as appropriate and as funds allow.

Candace Cady has completed the following training courses: 1) Utah On-Site Wastewater Treatment Certification Courses for Level III Certification – Design, Inspection, and Maintenance of Alternative Systems in Logan, Utah in November 2005; 2) Building Geodatabases I class at the Utah Automated Geographic Reference Center in December 2005; 3) Utah Onsite Wastewater Association Annual Conference in Layton, Utah in March 2006, which focused on Packed Bed Media Systems; 4) Ground-Source Heat Pumps and Geothermal Direct Use Workshop in Salt Lake City in March 2006; and Advanced Analysis with ArcGIS course at AGRC in August. Brianna Ariotti has completed the Arc GIS I and II training classes at the Utah Automated Geographic Reference Center and the Ground-Source Heat Pumps and Geothermal Direct Use Workshop.

3. Seventy-five percent (maximum) of funds necessary to operate the core State 1422 UIC Program, assuming a federal budget funding level near or equal to the past three years. Should funding levels drop significantly, USEPA will review core program elements and provide appropriate revisions.

## GOALS

1. To protect Underground Sources of Drinking Water (USDWs) from contamination by maintaining and implementing an effective core DWQ 1422 UIC program.

### Measures:

- a. Evaluation of core program effectiveness, reported in the semi-annual and annual narrative program report to the Administrator. (See Table 1 for specific dates = Semi-Annual and Annual Narratives\_Rob/Candace) Semi-Annual and Annual Narrative Reports issued.
  - b. Enforce the new Class V Rule regarding motor vehicle waste disposal wells and large capacity cesspools. (Ongoing, Candace) ) MVWD wells are closed as they are identified. See Semi-Annual and Annual Narratives for details. (Ongoing)
  - c. Report the number of underground injection wells tested for mechanical integrity to assure that the injection fluid stays within the well and within the injection zone, and the number that passed. (See Table 1 for specific dates - EPA Form 7520-3) Reported according to schedule in Table I.
  - d. Report the number of Class IV/V injection wells (by well type) closed voluntarily and involuntarily (See Table 1 for specific dates – PAMs Electronic\_Spreadsheet Report). Provide narrative of other actions taken to identify Class V wells and to address potential endangerment from Class V wells. (See Table 1 for specific dates - narrative Semi-Annual and Annual Narratives) Reported according to schedule in Table I. This year Annual UIC PAMs were reported online.
2. To reduce violations of state Ground Water Quality Standards through permitting, pollution prevention, compliance, and enforcement measures.

### Measures:

- a. Number of discharges by industrial Class V and other potentially endangering wells controlled by closure or permit. (See Table 1 for specific dates- PAMs Electronic Spreadsheet Report) Reported according to schedule in Table I.)
  - b. Utah UIC Program monitoring activities done according to the EPA-approved Quality Assurance Project Plan (QAPP) for DWQ.
3. To encourage responsible environmental behavior and promote excellence in environmental quality through environmental education, community-based partnerships and qualitative and quantitative feedback from regulated and non-regulated customers.

### Measures:

- a. Description of presentations to local government groups, local health departments, public works departments, private sector groups, civil groups, etc. which include UIC concerns and opportunity for feedback. (See Table 1 for

specific dates - Semi-Annual and Annual Narratives) Reported according to schedule in Table I.)

- b. Description of all outreach activities intended to inform local government groups, local health departments, public works departments, private sector groups, civil groups, etc. about the new Class V rule regarding the closure of motor vehicle waste disposal wells (MVWDs) and large capacity cesspools (LCCs). (See Table 1 for specific dates- Semi-Annual and Annual Narratives) Reported according to schedule in Table I.

**Table I - UIC Reporting Requirements FY 2006**

<u>Due Date</u>	<u>Reporting Cycle</u>	<u>Report Required</u>
<u>January 20</u> (1 <sup>st</sup> Quarter Date)	<u>Quarterly</u>	<u>Quarterly Exceptions List (Form 7520-4)</u>
<u>April 20</u> (2 <sup>nd</sup> Quarter Date)	<u>Quarterly,</u> <u>Semi-Annual</u>	<p style="text-align: center;"><b><u>Quarterly</u></b> <u>Quarterly Exceptions List (Form 7520-4)</u></p> <p style="text-align: center;"><b><u>Semi-Annual</u></b> <u>Compliance Evaluation and Enforcement (Form 7520-2A)</u> <u>Significant Non-Compliance and Enforcement (Form 7520-2B)</u> <u>Inspections, and Mechanical Integrity Testing (Form 7520-3)</u> <u>Program Activity Measures (PAMs) Electronic Spreadsheet Report <b>OR</b> "Extra Reports"</u> <u>Class V Activities Narrative</u></p>
<u>July 20</u> (3 <sup>rd</sup> Quarter Date)	<u>Quarterly</u>	<u>Quarterly Exceptions List (Form 7520-4)</u>

<p><u>October 20</u> (4<sup>th</sup> Quarter Date)</p>	<p><u>Quarterly,</u> <u>Semi-Annual,</u> <u>Annual</u></p>	<p><b><u>Quarterly</u></b> <u>Quarterly Exceptions List (Form 7520-4)</u></p> <p><b><u>Semi-Annual</u></b> <u>Compliance Evaluation and Enforcement (Form 7520-2A)</u> <u>Significant Non-Compliance and Enforcement (Form 7520-2B)</u> <u>Inspections, and Mechanical Integrity Testing (Form 7520-3)</u> <u>Program Activity Measures (PAMs) Electronic Spreadsheet Report OR "Extra Reports"</u></p> <p><b><u>Annual</u></b> <u>Permit Review and Issuance, AOR (Form 7520-1)</u> <u>Annual Program Narrative</u> <u>Class V Inventory Progress</u></p>
<p><u>December 31</u></p>	<p><u>Annual</u></p>	<p><u>Final Financial Status Report (FSR)</u></p>

**UTAH FY2006**  
**UPDES PERFORMANCE PARTNERSHIP GRANT AGREEMENT (PPGA)**

The Utah Department of Environmental Quality (DEQ) shall fully implement and enforce its delegated UPDES program (including, as appropriate, general permitting, pretreatment, biosolids, CAFO, and storm water programs) as required by 40 CFR Parts 122-124, 403, 501 and 503, its delegation MOA July 7, 1987, SEA, Inspection Plan, and any other agreements with EPA regarding program implementation. The PPA may specify goals and objectives for activities beyond the base level of performance, but, in no way, should this be interpreted as relief from full implementation of the base program.

The DEQ certifies that it has, maintains, and implements an adequate UPDES program including pretreatment, biosolids, CAFO, and storm water in conformance with federal and state laws and regulations and conditions set forth in program authorization (delegation) documents.

As long as the DEQ maintains an adequate program, the EPA and the DEQ agree that this Agreement shall remain in effect, except as amended through mutual agreement. Grant dollars awarded by the EPA may be used by the DWQ/PCS to perform core program activities to adequately maintain its UPDES program, even when these activities are not specifically defined by goals, measures, and/or reporting requirements.

**GOAL:**

Continue to fully implement the ongoing UPDES pretreatment, biosolids, CAFO, and storm water management programs as per the following “**CORE PROGRAM ACTIVITIES**” and “**COMPLIANCE AND ENFORCEMENT ACTIVITIES**” together with the annual FY’2005 Division of Water Quality, Goals and Objectives.

**UPDES Program Reporting Measures Tied To Core Program Activities:**

1. Number and percent of facilities that have a discharge requiring an individual permit that:<sup>CPM, W8</sup>
  - (a) are covered by a current UPDES permit (12/30/05 and 6/30/06 Edith)

**STATUS:**

- 25 *Individual Municipal – Majors*
- 35 *Individual Municipal – Minors*
- 8 *Individual Industrial – Majors*
- 45 *Individual Industrial – Minors*
- 1 *Federal*
- 30 *Individual Biosolids*
- 13 *General Permit, Coal Mining*
- 19 *General Permit, Construction Dewatering*
- 13 *General Permit, Aquaculture (Fish Hatcheries)*
- 50 *General Permit, Concentrated Animal Feeding Operations (CAFO’s)*
- 4 *General Permit, Ground Water Contamination with Petroleum Products*
- 37 *General Permit, Drinking Water Treatment Plant*
- 2009 *General Permit, Storm Water Construction*
- 733 *General Permit, Storm Water Multi Sector*
- 74 *General Permit, Phase II Municipal*
- 3 *Individual Storm Water, MS4 Permits.*
- 77 *Individual Industrial Storm Water (within individual permits)*
- 1 *Salt lake City Individual Storm Water Permit*
- 3177 *Total Current Permits*

- (b) have expired individual permits (12/30/05 & 6/30/06 Edith)

UT0021911	Central Weber Sewer Improvement Dist.		1/31/2006
UT0000051	Kennecott Copper		4/30/2006
UT0022616	Consolidation Coal Company	In public notice	6//30/2004

- (c) have applied for, but have not yet been issued an individual permit (12/30/05 & 6/30/06 Mike)

**STATUS:** *Desert Power and Andalex Centennial.*

- (d) have individual permits under administrative or judicial appeal (12/30/05 & 6/30/06 Mike)

**STATUS:** 0

2. Each year, 95% of priority permits and 90% of all permits are issued or reissued within the 5 year statutory time frame. If the number of expired permits is greater than 30% at any time, provide an overall permit issuance/backlog reduction plan showing how the State will expeditiously reduce the backlog to 10%. (5/1/06 Mike)

**STATUS:** *Not Applicable in Utah.*

3. Number of watersheds in which a watershed permit(s) has been issued. (5/1/06 Mike)  
WTR

**STATUS:** *We do not issue a watershed permit anywhere in Utah. As was discussed last year we consider the issuance of each and every permit in a watershed and the effects those permits have on the watershed as a whole and in relation to one another.*

4. Number of storm water sources associated with industrial activity, number of construction sites over one acre, and the number of designated storm water sources (including Municipal Phase I and Phase II) that are covered by a current individual or general UPDES permit or other enforceable mechanism.<sup>CPM W9</sup> (12/30/05 & 6/30/06 Tom R. and Mike G.)

- a. Number that are covered by each current storm water general permit (e.g., industrial, construction, MS4) (12/30/05 & 6/30/06 Tom R. and Mike G.)

**Currently Active General Permit Coverages**

**733 UTR000000 Multi Sector General Permit**  
**2009 UTR100000 General Construction Permit**  
**74 UTR090000 Phase II MS4's**

- b. Number that are covered by current individual storm water permits (e.g., Phase I MS4s) (12/30/05 & 6/30/06 Tom R. and Mike G.)

**1 UTS000001 SL County Co-Permit**  
**1 UTS000002 SL City Municipal SW**  
**1 UTS000003 UDOT Municipal SW**  
**1 UT0024988 SLC International Airport**  
**13 UT0400000 Coal Mine General Permit**  
**39 Other Individual Permits With SW Provisions**

- c. Number of expired general or individual storm water permits (12/30/05 & 6/30/06 Tom R.)

**STATUS: 0**

5. Manage the application of the Storm Water Phase II Regulations. (Ongoing Tom R. and or Mike G.)

**STATUS:** *The storm water Phase II regulations have been incorporated into the Utah Administrative Code, Permits have been created and are currently in the process of implementation.*

*Specifically, Small MS4 permits have been issued and annual reports are being submitted by the permittees. Training activities are a current priority. Final storm water management programs are expected from the permittees by March, 2008.*

*Small construction activities have been included in the UPDES General Permit. An electronic NOI system has been created.*

*Publicly owned facilities are included under the UPDES Multi Sector General Permit. Permits have been issued to publicly owned wastewater treatment facilities, publicly owned transportation facilities and publicly owned landfills. Additional permit coverage is planned for publicly owned airports.*

6. Involve regulatory agencies and the public as necessary to effectively permit storm water discharges. (Ongoing Tom R. and or Mike G.)
  - a. The State program is accessible by the public and regulated entities (i.e., contact information and web sites, etc.).

**STATUS:** *The State maintains a storm water program webpage which includes guidance documents, contact information, copies of permits and forms and links to additional storm water guidance.*

- b. Include EPA in the review process prior to issuing general and individual permits for storm water discharges.

**STATUS:** *EPA is provided with copies of draft permits and guidance prior to public notice.*

- c. Track storm water general permit coverage and provide data to EPA on regulated agencies consistent with National efforts for data management (PCS/ICIS).

**STATUS:** *There is an ongoing effort to update ICIS when any Storm Water Industrial Permit is renewed or inspected as required by the Wet Weather rule. Whenever inspection or compliance activities are conducted the facility and permit information is entered in order to track the compliance inspections along with*

*any Single Event Violation link to the compliance inspection. State storm water databases are updated for both Industrial Multi-Sector and Construction Storm Water.*

7. Percentage of Significant Industrial Users (SIUs) in POTWs with Pretreatment Programs and % of known Categorical Industrial Users (CIUs) in non-pretreatment POTWs that have control mechanisms implementing applicable Pretreatment standards and requirements. (12/30/05 & 6/30/06 Jen) <sup>w9</sup>

**STATUS:** *Results 100% of SIUs in POTWs with pretreatment programs have a control mechanism, 25% of CIUs in nonpretreatment POTWs have a control mechanism.*

8. Perform audits on 85% of all approved pretreatment programs annually. During audits inspect at least 20% of the SIUs.. (Ongoing Jen)

**STATUS:** *Results 90% of approved pretreatment programs were inspected in 2006.*

9. Maintain the Utah AFO/CAFO Strategy . Specific commitments include:

- a. Develop a new General Permit based on revised CAFO Rules. (7/1/05 Don)

**STATUS:** *The Division of Water Quality administratively continued coverage under the existing UPDES CAFO general permit until the federal CAFO rule revisions are complete. The Division will issue a new UPDES CAFO general permit when CAFO rule revisions are complete and any Utah administrative code or statute changes brought by the new CAFO rule are made.*

- b. For all permitted CAFOs, enter permit facility data, permit event data, and inspection data into PCS. (Ongoing Don)

**STATUS:** *3560-3 forms have been submitted for each CAFO inspection for data entry into PCS/ICIS.*

- c. Implement the process to address all animal feeding operations that are impacting water quality. Provide progress on implementation to EPA. (Ongoing Don)

**STATUS:** *The Utah AFO/CAFO strategy addressed AFOs that are affecting water quality. An inventory of all AFOs in the state has been conducted by the partners. Those AFOs which have the potential to discharge or do discharge prior to the 25-year, 24-hour storm event are identified as potential CAFOs (PCAFO). PCAFOs receive priority in receiving funding and assistance from the partners to address water containment problems. Through assistance from the partners, 41 percent of the PCAFOs are now in full compliance.*

*In addition to the activities of the partners, complaints are investigated to determine any impact on Waters of the State. Facilities receiving complaints are subject to enforcement or action to bring facilities into compliance and*

*eliminate the potential to discharge to surface waters. AFOs are often referred to the Natural Resources Conservation Service for technical or financial assistance.*

- d. Conduct meetings of the AFO/CAFO committee and maintain critical partnerships with NRCS, UACD, the Farm Bureau and the agricultural community. (Ongoing)

**STATUS:** *AFO/CAFO Committee meetings were held on February 23, April 15, and October 13, in 2005. Committee meetings were held February 14, May 17, and September 27, in 2006. The DWQ participates in the CAFO Committee. DWQ organizes, makes agendas, and sends a meeting summary to participants. The DWQ continues to assist in the implementation of the Utah Strategy. The DWQ has approved "319" funds to support strategy-related activities by the partners. The DWQ communicates with the partners on important issues. The DWQ receives reports from the partners in order to track progress of the partners in assisting producers. The DWQ often invites the partners to participate in complaint investigations at AFOs.*

10. Upon promulgation of the Pretreatment Streamlining regulations (anticipated in summer of 2005), examine the need to update State rules and procedures as appropriate to allow for implementation. (12/30/05 Jen)

**STATUS:** *R317-8-8 will be updated by March of 2006 to include streamlining regulations.*

11. Implement the Sewage Sludge (Biosolids) regulations

- a. % and # of UPDES permits that contain biosolids language. (12/30/05 & 6/30/06 Mark)

**STATUS:** *100%, 29 mechanical plants with biosolids permits*

- b. Maintain data in the PCS/ICIS database. Submit the data electronically by May 1 each year for the proceeding monitoring year. (5/1/06 Mark)

**STATUS:** *Ongoing, as needed.*

- c. Revise or maintain current reference for regulations based on adoption of 40CFR 503. (Most\_recently revised as of July, 1998 and August 4, 1999) (12/30/05 Mark)

**STATUS:** *Ongoing as needed. Recent revisions include those for molybdenum, fecal coliform and dioxins.*

#### **UPDES Program Reporting Measures Tied To Compliance and Enforcement Activities**

1. Ensure maintenance of information management systems sufficient to plan, track, assess, and make adjustments to program activities.

- a. Properly enter data into the PCS data system such that the federally required data fields are kept current. (Ongoing Mike, Edith)

**STATUS:** *This is routinely done on a daily basis.*

- b. Data is entered accurately - the PCS Data Entry Percentage Rate is at 95% or higher and includes permitting, compliance, and enforcement data required by the PCS Policy Statement. This can be measured by USEPA, as needed, for quality assurance purposes. UTDEQ addresses this in its Self Assessment. (Ongoing Mike, Edith)

**STATUS:** *PCS data entry rate is regularly at 97% or higher and includes permitting, compliance, and enforcement data required by the PCS Policy Statement. Utah routinely performs its own self-assessments for quality assurance.*

- c. Respond to the Watch List monthly. (Mike/Edith, Ongoing)

**STATUS:** *The Watch List is checked monthly and DWQ will notify EPA if they feel the Watch List is incorrectly completed. If necessary facilities can be removed from the Watch List if appropriate and agreed to by EPA.*

## 2. Non Major Facilities Compliance Report.

- a. Continue to report non-major facilities compliance data the same as majors through the PCS data management system. (Ongoing Mike)

**STATUS:** *Non-major facility data is entered into PCS. Utah handles the non-major facilities in the same manner as major facilities. The QNCR is used to determine non-compliance with permit limits and schedules. Data entered is quality checked for accuracy.*

## 3. Coordinate inspection activities among programs and between the State and USEPA. Incorporate targeted USEPA national and regional priority sectors, as agreed upon between UTDEQ and USEPA. Include those sectors, as agreed upon, when planning IU inspections by UTDEQ or USEPA. Consider planning inspections to complement timing and focus on watershed efforts. Inspections will be made in accordance with the mutually agreed to annual inspection plan. (Ongoing Kari, Lonnie)

- a. Submit draft inspection plan for FY06 by June 1, 2005, and final inspection plan within 30 days of receiving EPA's formal comments on the draft plan

**STATUS:** *The draft inspection plan was not required to be submitted until September 1, 2006 as a result in a shift by EPA in the States inspection year. Our inspection year now coincides with the federal fiscal year (October 1<sup>st</sup>. to September 30<sup>th</sup>.). The State Compliance Inspection Plan was submitted on August 29, 2006*

- b. Track inspections in PCS. (Ongoing Kari, Lonnie)

**STATUS:** *We routinely record all inspections in PCS – major and minor.*

- c. DWQ will conduct the following number of inspections during FY06

Majors----26

Minors----42

Pretreatment (Audits and PCIs)----16

**STATUS:** *We exceeded our inspection requirements:*

*Majors - 34*

*Minors - 120*

*Pretreatment – 17*

4. Sanitary Sewer Overflows (SSOs)

- a. Respond to SSO when requested by districts, municipalities, and local health departments as requested or if waters of the State are threatened. (Ongoing Jen)  
CPM E1

**STATUS:** *SSO that were reported were investigated that went to waters of the State, no enforcement acts where deemed necessary.*

- b. Continue to inventory (ask questions of) permittees for SSO occurrences and resolutions through the Municipal Wastewater Planning Program (MWPP) questionnaire.

**STATUS:** *A list from the MWPP is attached.*

- c. Submit to EPA Region 8 a report by September 30, 2006 that will include:

- i Number of UPDES inspections at major facilities where SSO information was received. (6/30/06 Jen)

**STATUS:** *At three major inspections SSO information was received*

- ii An updated SSO inventory from MWPP surveys. (6/30/06 Jen)

**STATUS:** *A list from the MWPP is attached.*

- iii The number of SSOs reported and their cause from the MWPP inventory. (6/30/06 Jen)

**STATUS:** *This can be found in the attached summary of the MWPP*

- iv The number and percent of SSO inspections in priority watersheds (as defined by the State) including the name of the priority watershed.

**STATUS:** *An informal SSO inspection was conducted at one site which was in a priority watershed. One inspection, 100 % of SSO inspections in priority watersheds, although there was only one inspection.*

- v The number and type of informal and formal enforcement actions taken in response to SSOs;

**STATUS:** *Three enforcement actions were taken on SSOs going to Waters of the State which happened in FY 2005.*

- vi. The percent of enforcement actions in priority watersheds (as defined by the State) for SSO; and

**STATUS:** *Two of the three enforcement actions were in priority watersheds, 66% of the enforcement actions were in priority watersheds.*

- vii A list of SSOs addressed including a description of how 20% of the systems in the SSO inventory were addressed.

**STATUS:** *FY 2006 one SSO was inspected, the facility, a satellite collection system, cleaned the area. The industry which caused the grease plug in the main line was sited and is being issued a pretreatment permit.*

- d. The State will take enforcement action as per Utah's EMS whenever deemed necessary to protect waters of the state. (Ongoing Jen)<sup>CPM E6</sup>

**STATUS:** *FY 2006 no enforcement actions were necessary for SSOs which happened in FY 2006.*

- e. Utah will complete an inventory of its collection systems (including satellite systems) in priority watersheds (as defined by the State) and provide the inventory to EPA by December 31, 2005.

## 5. Storm Water

- a. Division personnel will conduct at least 150 inspections of permitted and unpermitted facilities including the construction and industrial sectors E, G, U, AA and AD. All inspections are entered into PCS/ICIS. (Ongoing Tom R. and Mike G.)<sup>CPM E5</sup>

**STATUS:** *DWQ staff conducted 183 storm water inspections for the reporting period. The inspections were entered into PCS.*

- b. Train additional inspectors (DEQ Scientists and Engineers, Municipal Public Works Depts., County Health Depts. and District Engineers) to perform erosion and sediment control inspections at construction sites. This will increase the number of overall storm water inspections performed in the state. (Ongoing Tom R. and Mike G.)

**STATUS:** *The State has taken an active role to train the permitted MS4's to conduct construction site inspections. The objective is to train the municipalities to conduct the inspections in a uniform fashion statewide with the same protocol used by the State. The training includes document review and inspection of onsite storm water controls. A standardized inspection packet, including the "Expedited Settlement Offer" inspection sheet is promoted. DWQ conducted 24 municipal and health department trainings during FY 2006.*

- c. Provide EPA with a copy of Utah's current storm water permit tracking system semi-annually (, 3/31/06, 9/30/06), either electronically or on CD-rom. (Tom R.)

**STATUS:** *Permit tracking reports have been submitted to EPA.*

- d. EPA will conduct periodic file reviews to assess the quality of state storm water inspection reports and to review the enforcement follow up to inspection reports. For those states with storm water enforcement response guides (ERG), the state enforcement response will be reviewed in accordance with the state ERG. For those states without an approved state storm water ERG, the state enforcement response will be reviewed based on EPA's EMS/ERG.

**STATUS:** *When the original EMS was drafted we did not specifically include storm water. However, the old EMS can be applied to storm water and certain portions of it are applied (such as the penalty policy).*

- e. DWQ will develop a draft storm water compliance and enforcement plan and provide to EPA by December 31, 2005 (Tom R.)

**STATUS:** *A draft storm water enforcement guidance policy has been produced. The Utah guidance has been drafted to incorporate elements of the EPA storm water enforcement protocol. Specifically the Utah strategy includes the use of a sector-based inspection and enforcement protocol. The draft storm water guidance was prepared on 12/6/04. The plan is currently being incorporated into the overall permits and compliance "Enforcement Management Strategy."*

6. Assure consistent enforcement of WET requirements in permits.
  - a. Following EPA's review and comment, revise Utah's WET policy and guidelines in order to assure alignment with EPA's national WET policy and/or regulations. Target 120 days following receipt of EPA's final comments. (Ongoing Kari)

**STATUS:** *A final review of the State Policy submitted by Utah has not been completed. When this is done DWQ will respond by submitting a revised plan.*

- b. Enforce UPDES permit WET limits and compliance schedule violations in accordance with the enforcement guidance contained in its February 15, 1991 "Permitting and Enforcement Guidance Document for Whole Effluent Toxicity Control," and any subsequent revisions. (Ongoing Kari) <sup>W8, E6</sup>

**STATUS:** This is ongoing as required.

- c. Utah will submit as part of their annual report, a list of the facilities which have entered into a TIE/TRE during FY06 and a list of any formal enforcement actions which included WET violations.

**STATUS:** *There were three (Central Valley, Moab, and Central Weber ) facilities which entered into a TIE/TRE during FY06. There were no formal enforcement actions which included WET violations.*

7. Biosolids-Promote the beneficial use of biosolids

**STATUS:** *Have registered for biosolids displays three garden shows in 2007.*

- a. Continue to conduct Biosolids inspections. The goal will be to conduct inspections on 50 % of Utah's biosolids-only permittees annually. In the End-of-Year Report, include the number of Biosolids inspections actually conducted. (Ongoing Mark)

**STATUS:** *Conducted 26 inspections of the 29 permitted facilities.*

- b. Reissue all biosolids permits which will expire in FY2006 and transition into consolidated permits as needed. (Ongoing Mark)

**STATUS:** *Ongoing as discharge permits are issued.*

- c. Submit an End-of-Year report to EPA (9/30/2005, Mark S.)

**STATUS:** *Will do with Region 8 Biosolids Coordinator in Spring of 2007.*

8. Enforcement Agreement.

- a. Revise the State/EPA Enforcement Agreement as appropriate and warranted. (3/1/2006, Mike H.)

**STATUS:** *The DWQ is presently working on a revision to the Enforcement Agreement.*

- b. EPA will conduct quarterly conference calls with DWQ to discuss the Quarterly Noncompliance Report for major and minor facilities and current and projected enforcement cases to address concerns early in the process.

**STATUS:** *EPA has made numerous calls regarding major and minor enforcement actions.*

- c. DWQ will review its standard Administrative Order template to ensure that it contains language requiring compliance with any schedule developed as part of an

Order and identifies appropriate State sanctioned penalties for failure to meet the compliance schedule.

**STATUS:** *It is DWQ's understanding that changes in the AO template will be recommended by the AG's Office. DWQ has made temporary changes to include appropriate statements in any orders given in an AO.*

9. Concentrated Animal Feeding Operations (CAFOs) (Ongoing Don)

- a. Continue to implement "Utah's Strategy To Address Pollution From Animal Feeding Operations"

**STATUS:** *DWQ continues to work with the agricultural partners to implement the strategy.*

- b. Maintain an inventory of all permitted CAFOs during FY2006

**STATUS:** *The CAFO Program Coordinator at the DWQ maintains an inventory of the permitted facilities. There are 57 large-sized CAFOs in the State, 56 are permitted. One CAFO was given the no potential to discharge determination (NPTD) prior to the Second Circuit Court of Appeals decision which eliminated the NPTD. The facility has not applied for a permit.*

- c. Inspect at least 20 CAFOs during FY2006 including those also covered by groundwater permits

**STATUS:** *Twenty two CAFOs were inspected, including three with a ground water permit.*

- d. Coordinate with the Region to ensure Regional accessibility to CAFO information, including permit, inspection, and enforcement data

**STATUS:** *The DWQ is receptive to inquiries by the Region for information.*

- e. Include in the End-of-Year report for FY2006 (Don):

- i. Total known number of CAFOs in Utah and of these, the number of permitted CAFOs

**STATUS:** *There are 57 large CAFOs in the State, of these 56 are permitted.*

- ii. Total known number of CAFOs in priority areas and of these, the number permitted

**STATUS:** *Fifty two CAFOs are located in priority watersheds. All are permitted except for Circle Four, which received an NPTD.*

- iii. Names and HUC codes for priority watersheds in the state

**STATUS:**

<b>Priority Watershed</b>	<b>HUC Code</b>
Hyrum Reservoir	16010203
Lower Little Bear River	16010203
Cub River	16010202
Newton Creek	16010202
Lower Bear River	16010204
Spring Creek	16010203
East Canyon Creek	16020102
Pineview Reservoir	16020102
Upper San Pitch River	16030004
Upper Sevier River	16030001
East Fork Sevier River	16030002
Middle Fremont River	14070003
Johnson Valley Reservoir	14070003
Forsyth Reservoir	14070003
Onion Creek	14030005
Ashley Creek	14060002
Lower Virgin River	15010008
Upper Price River	14060007
Middle Beaver River	16030007
Thistle Creek	16020202
Deer Creek Reservoir	16020203
Silver Creek	16020101
Mill Creek	16020204
Cottonwood Wash	14080201
Chalk Creek	16020101

iv. Numbers and percent of total known CAFOs in Utah inspected

**STATUS:** *During FY06, 22 inspections were conducted out of 56 permitted facilities. This is 39 % of the permitted facilities.*

v. Numbers and percent of total known CAFOs in priority areas inspected

**STATUS:** **Twenty one out of twenty two CAFO inspections in FY2006 were in priority areas. This is approximately 96% of the inspections.**

vi. Number of enforcement actions taken against CAFOs, including:  
- Number of settlements  
- For each case, any penalty amount assessed and collected

**STATUS:** *One notice of violation (NOV) was issued in FY05 to a poultry operation. A settlement agreement and penalty was agreed to by the company during FY06. However a SEP was agreed to be added and the settlement agreement is presently being redone.*

- f. Nutrient Management Plans shall also be tracked in PCS as a compliance schedule item as required by the PCS Policy Statement.

**STATUS:** *the DWQ will provide NMP information for the CAFOs permitted with the next UPDES CAFO general permit issued by Utah*

- g. Region 8 will conduct up to two joint EPA/state CAFO inspections in each state. Region 8 will also conduct up to two CAFO oversight inspections in each state if two CAFO oversight inspections were not conducted in that state in FY05.

**STATUS:** *The 1st joint inspections are September 13, 2005 and September 14, 2005.*

- h. EPA will conduct periodic file reviews to assess the quality of state CAFO inspection reports and to review the enforcement follow up to inspection reports. For those states with enforcement response guides (ERG), the state enforcement response will be reviewed in accordance with the state ERG. For those states without an approved state ERG, the state enforcement response will be reviewed based on EPA's EMS/ERG. EPA will focus its efforts on those Region 8 states with the least CAFO enforcement activity.

**STATUS:** *EPA conducted a file review in FY 2006.*

10. Report to EPA in the End Of Year Report the number of the following types of inspections:

- a. Majors (Lonnie, Kari)-34
- b. Minors (Lonnie, Kari) - 120
- c. Storm Water (Tom) - 183
- d. CAFOs (Don) - 22
- e. Biosolids (Mark) - Conducted 26 inspections of the 29 permitted facilities, including land application sites, as needed.
- f. SSOs (Jen) 1 Informal inspection was conducted.
- g. Pretreatment (Jen) – 17 of 20 permitted facilities.
- h. Priority Areas (Don) - 8

EPA will determine the number of inspections conducted at midyear (March 31, 2006) by DWQ in each category above by pulling this information from PCS. Any inspections, which do not appear in PCS by March 31, 2006, will not be counted in the midyear numbers.

11. EPA Region 8 may propose to inspect, in consultation with the State, certain coal bed methane operations in Region 8 for compliance with the Clean Water Act.

**STATUS:** *These facilities are permitted, inspected and enforced against the same as any other permitted facility. This is routinely done. We would lead all inspections in the State of Utah.*

12. Submit to EPA appropriate enforcement documents at appropriate times as follows: <sup>CPM</sup>  
E6

- a. NOVs as they are mailed to the violator (Ongoing DWQ Staff)

**STATUS:** *This is routinely done and will continue.*

- b. DWQ will provide penalty calculations and all necessary background documentation to EPA for enforcement actions against major facilities and for cases in priority areas (storm water, SSOs and CAFOs) before the information is shared with the facility to allow EPA to evaluate the proposed penalty. EPA will provide written comments on draft settlement documents and penalty calculations within seven calendar days from the date it is received. (Ongoing DWQ Staff)

**STATUS:** *This is routinely done and will continue. The Enforcement Agreement allows EPA five days for review, not seven.*

- c. SAs for minor permittees and unpermitted facilities as they are settled (Ongoing DWQ Staff)

**STATUS:** *SAs for minors and unpermitted facilities will continue to be sent to EPA as they are settled.*

- d. Study and revise as required DWQ's penalty policy associated with enforcement actions. (3/1/2006, Mike H.)

**STATUS:** *The revised penalty is presently in review.*

13. Mining

EPA Region 8 will review its current inventory of mining facilities in Region 8, including sand and gravel operations. Based on that review, EPA may propose to conduct joint inspections with the State providing the lead at certain mines in Region 8 for compliance with the Clean Water Act.

STATUS: Please inform the State of the dates.

14. Federal Facility Inspections

Region 8 will seek authorization from the State to work with EPA to target VA Hospitals for multimedia inspections. States will be the lead for NPDES portion of a multimedia inspection at the selected VA Hospitals if the facility is regulated by NPDES.

**STATUS:** *Ongoing.*

**FY 2006 UTAH GROUND WATER PROTECTION SECTION**  
**PERFORMANCE PARTNERSHIP AGREEMENT**

**GOALS**

1. Continue administration of a comprehensive ground water protection program according to priorities established in Utah Ground Water Protection Strategy and the annual FY 2006 Division of Water Quality/Goals and objectives. Ongoing

**Measures:**

- a. End-of-year report as required by 106 grant on achievement of FY 2006DWQ/Ground Water Program Goals and objectives - due 12/31/06. Completed
- b. Statewide Permitting Program administered in accordance with strategy and state rules. Ongoing
- c. Education efforts conducted to encourage awareness of ground water protection issues. Ongoing
- d. Continue participation in the EPA VIII regional Ground Water Protection Strategy Work Group. The intent is to help EPA develop a regional strategy for refocusing EPA and Region VIII States efforts on ground-water protection. Ongoing
- e. Continued efforts to encourage local governments to institute ground water protection measures. Classifying aquifers within State has been instrumental for local officials in implementing successful ground water protection land use ordinances. Ongoing
- f. Continue to seek permanent annual funding in the amount of \$160,000 for the implementation of a state-wide ambient ground water monitoring network and for the classification of aquifers. Ongoing DWQ has dedicated approximately \$85,000 of incremental funding to provide an ongoing annual commitment to the ground water monitoring effort.

**WATER QUALITY /WATERSHED PROTECTION AND MANAGEMENT**  
**FY-06 PERFORMANCE PARTNERSHIP AGREEMENT**

WQM and TMDL Sections, DWQ

**GOAL/Activities:**

1. Maintain strong State and local institutional capabilities to implement Watershed Approach for TMDL development and implementation of the Nonpoint Source Program.<sup>WTR</sup>
  - ◆ Continue active support of Partners for Conservation and Development (UPC&D)
  - ◆ Utilize and enhance State GIS capabilities for watershed planning and implementation.
  - ◆ Submit 319 mid-year and annual reports and maintain Nonpoint Source Grants Reporting and Tracking System (GRTS).
  - ◆ Continue implementation of upgraded NPS Pollution Management Program Plan. Develop components related to stormwater/urban runoff. Develop a schedule and begin revision/update of the NPS Pollution Management Plan by 2007.
  - ◆ Develop and pursue approval for stormwater/urban run-off component of the Management Plan.

**Measures:**

- a. Continued development and revision of base data layers for watershed management unit status reports and TMDL plans including maps of 303(d) waters and other environmental features. (NPS Plan Task 26)<sup>CPM W13</sup>

**STATUS:** *Numerous activities in this area completed to date including maps for the 2006 Integrated Report for the 303(d) List of Impaired Waters and 305(b) assessment of the states waters and mapping/GIS assistance to other division programs such as UIC, TMDL, monitoring and Ground Water and special investigations such as Mercury in water and fish tissue across Utah.*

- b. GRTS is updated semi-annually and reports are submitted according to July 1<sup>st</sup> and January 1<sup>st</sup> deadlines. (NPS Plan Task 33)

**STATUS:** *All annual reports were received and entered into GRTS in January 06. Most midyear reports have been received from project sponsor and also enter into GRTS. Currently working to get Annual Reports from project sponsors and entered into the GRTS data base by end of December '06.*

- c. Complete revision of stormwater/urban run-off plan by March 2006.

**STATUS:** *Completion of the Plan is delayed due to other work priorities. A rough internal draft of the Plan is written and needs to be reviewed by DWQ staff. The Draft Plan may be completed and submitted to EPA by summer of 2007.*

- d. Submission of NPS Annual Report. (4/1/06)

**STATUS:** *The draft of the annual report was completed and submitted to EPA for review and approval in March 2006. Report was accepted by EPA and the FY-2006 NPS Projects grant was awarded in June 2006.*

2. Ensure that federal land management is consistent with State Nonpoint Source Pollution Management Plan and watershed needs and concerns:

- ◆ Conduct annual program/project/monitoring review meeting.
- ◆ Conduct field audits on selected projects and review federal actions.
- ◆ Implement cooperative monitoring programs and work jointly for consistent procedures and protocols.
- ◆ Evaluate need and establish schedule as resources permit to revise MOUs with Forest Service and BLM.
- ◆ Works closely with federal land management agencies to identify the 303(d) listed waters on federal lands and work jointly to develop and implement TMDL per agreement between FS and EPA.

**Measures:**

- a. % of stream miles and lake acres monitored which meet designated uses for aquatic life and recreation on public lands (NPS Plan Task 3)<sup>CPM W4</sup>
- b. Completed field project reviews with documented observations and recommendations summarized in NPS Program Annual Report. (NPS Plan Task 29)

**STATUS:** *Project field tours were conducted in September and November 2006. Trip reports will be included in the 2006 Annual Program Report to be submitted to EPA at the end of January.*

- c. Number of 303(d) water bodies (streams and lakes) located on public lands (FS and BLM) and number of TMDLs developed in conjunction with and support of FS or BLM. Report results in EOY report for the PPA and NPS annual report. (NPS Plan Tasks 3 & 5)

**STATUS:** *The number of 303(d) Assessment Units (water bodies) located on BLM and USFS lands is 110. This includes both streams and lakes. There are thirty (30) stream AUs on BLM lands, three (3) on USFS lands, and eight (8) on BLM / USFS lands combined. There are eight lake (8) AUs on BLM land, and fifteen (15) on USFS lands. Fifty-two (52) TMDLs have been developed on public lands, fifteen (15) stream TMDLs on BLM lands, eleven (11) on USFS lands, and nine (9) on BLM / USFS lands combined. One (1) lake TMDL has been developed for BLM lands, and ten (10) TMDLs for lake AUs on USFS lands.*

- d. Depending upon resource constraints related to fires and other management priorities, work jointly to revise memorandum of understanding with FS and BLM (NPS Plan Task 20)

**STATUS:** *This measure has not been deemed a priority. No staff resources have been devoted to this task during the past year.*

3. Improve public awareness and support of TMDL development and implementation through the watershed approach and nonpoint source program:<sup>WTR</sup>

- ◆ Continue to work on revising the 1995 NPS I&E strategy to support development and implementation of TMDLs and other NPS Program priorities.
- ◆ Increase non-governmental partnership in implementing the Watershed Approach developed TMDLs and NPS Management Program.
- ◆ Promote the Watershed Approach to TMDL development via conferences, newsletters and basin workshops and through the Utah Watershed Coordinating Council.

**Measures:**

- a. Number of new Adopt-A-Waterbody groups and number of groups linked to TMDL waters. (NPS Plan Tasks 16 & 17)

**STATUS:** *The results of this measure will be reported at the end of this year. (I asked Shelly for the info on this item.)*

- b. Provide input and assistance to the annual Nonpoint Source Water Quality conference.

**STATUS:** *Staff from the Utah Department of Agriculture and Food have been very active in planning and coordinating the national NPS Coordinator's Meetings and workshops this June in Park City. No state NPS Water Quality Conference will be held this year because of the national conference in Utah. The National NPS Coordinator's Conference in Park City was very successful and nearly all states and EPA Regions attended the three day event.*

- c. Revised NPS Program I&E Outreach Strategy. Target completion date is March, 2006. (NPS Plan Task 17)

**STATUS:** *The strategy was completed last year. Further refinement will be made as the strategy continues to be implemented. Significant outreach and training opportunities exist this year through the "Getting in STEP" Workshop at the national NPS conference in Park City this June. Local watershed coordinators were strongly encouraged to attend the entire conference which most of them did, including the special Outreach Workshop on implementing the "Getting in Step" process.*

- d. Document public information actions completed to promote Watershed Approach/TMDL planning process and other key program actions, i.e. WQS, and 303(d) listing. Such actions will be reported in the EOY PPA report. (NPS Plan Task 15)

**STATUS:** *Extensive public involvement and review process is conducted for each TMDL Plan that is developed and submitted to EPA. Also the 303(d) List was public noticed and presented at several public forums including the Rural Water, Water Users' Workshop and Water Environment Association of Utah during their respective annual meetings. A directed mailing was also conducted by DWQ to alert interested parties about the List as available on the DWQ WEB site at [www.waterquality@utah.gov](http://www.waterquality@utah.gov).*

4. Implement nonpoint source best management measures on a priority water quality protection/improvement basis supporting the implementation of TMDLs.<sup>WTR</sup>
- ◆ The state will continue implementation of Utah AFO/CAFO strategy and report results.
  - ◆ Solicit and review priority project proposals, PIPs and prepare 319 application.
  - ◆ Monitor and evaluate project implementation jointly with local sponsors.
  - ◆ Conduct watershed evaluations and write reports for selected 319 watershed projects with assistance of 'partners' (cooperating agencies).
  - ◆ Report non-319 investment in watershed restoration projects by other entities through participation in watershed based/TMDL process.

**Measures:**

- a. Assess and report according to 305(b) cycle, the number and percent of lake acres and stream miles monitored which have water quality supporting designated beneficial uses (NPS Plan Tasks 3 & 5)

**STATUS:** *Completed and sent to EPA for 2006 cycle.*

- b. Report those waters identified on 2000 303(d) list of impaired waters or subsequent 303(d) lists where those waters have been restored to partial or full attainment of assessed beneficial uses. <sup>CPM W5</sup><sub>(WQ-15)</sub>

**STATUS:** *It is difficult to obtain this information because the Assessment Unit's were redefined after 2002. The new 5<sup>th</sup> and 6<sup>th</sup> level HUC's defined by the NRCS and the USGS are currently being used. However, there are two Assessment Units that were removed from the 303(d) list based upon implementation of best management practices that resulted in the Assessment Units meeting the standards and supporting their beneficial uses. The two Assessment Units are the Little Bear River-2 (UT16010203-001\_00) and Mill Creek (UT16020204-018\_00). The Little Bear River-2 segment was listed for total phosphorus and Mill Creek was listed for sediment, fecal coliforms and habitat alteration.*

- c. Practices implemented appropriately and effectively and natural resource improvements being achieved for 319 NPS Watershed Projects. Also report on reductions in nonpoint source loadings for sediments, nitrogen and phosphorus and improvements in water quality for information available. Information will be included in project annual reports (GRTS), final project reports and NPS Program annual report. (NPS Plan Tasks 2, 6, 36 & 40)<sup>(WQ-14)</sup>

**STATUS:** *As stated in previous reports, practices implemented at the field/project level with individual landowners are approved by either UACD or NRCS technicians prior to invoices being processed for payment. The UAFRRI model is continuing to be run for animal waste projects to determine reductions in nitrogen and phosphorus. The data is being entered in an ACCESS database maintained currently by Utah Farm Bureau Federation. To document improvements in range conditions in Chalk Creek, NRCS re-ran the PSAIC Model and the results have been provide to UDAF for entry into GRTS. More of such data is needed for other projects such as Beaver River and Otter Creek. A new simple spreadsheet model was developed by USU Extension to use for riparian improvement projects. Average annual loading data for TSS and total phosphorus is presented in recent final project reports for four major watershed projects including the Little Bear River, Chalk Creek, Otter Creek and Beaver River.*

- d. Report non-319 funding in watershed protection / restoration projects in project annual and final reports. (NPS Plan Task 34)

**STATUS:** *Such information is being kept by local project coordinators. For example in a recent report to the NPS Task Force for the Beaver River Watershed Project over five million dollars has been spent in the past several years to improve water quality and other natural resource conditions in the watershed. Roughly funding has come from the following sources: \$3,275,000 EQIP, \$1,106,000 ARDL(local match) and \$685,000 from 319 funds. In the draft final report for Chalk Creek the following figures are included: private landowner cash, in-kind, loans totaled \$986,000; Utah div of Oil, Gas and Mining \$180,800; USDA \$918,000; Coalville City \$335,000 and USFWS Partners for Wildlife \$65,000. Such information is often reported in annual reports and summarized in final project reports.*

- e. Report progress in implementing Utah AFO/CAFO Strategy through semi-annual reports to ‘partners’ and an annual progress summary report. (NPS Plan Task 34)

**STATUS:** *Such reports were presented to the AFO/CAFO committee and the WQ Board and will be included in the 2006 NPS Program Annual Report.*

- f. Continue to provide information on fish consumption advisories through the National Listing of Fish and Wildlife Advisories. Such state advisories are posted on the DEQ/DWQ Web site at [www.waterquality.utah.gov](http://www.waterquality.utah.gov).<sup>CPM W3</sup>

**STATUS:** *Current information on fish advisories in Utah has been updated via the National Listing and is also current on the DEQ Web site at [www.deq.utah.gov/Issues/Mercury/fish\\_advisories.htm](http://www.deq.utah.gov/Issues/Mercury/fish_advisories.htm)*

- g. Report (A) number of the Nation's watersheds where: water quality standards are met in at least 80% of the assessed water segments. (Annually Mike R.) It is anticipated that Utah will have no watersheds at the HUC level requested to report this level of achievement. This level of resolution is far too large. Utah's approach to assessment, TMDL development and implementation is on a much smaller scale. We will report on specific TMDL approved waterbodies where restoration has restored beneficial uses. In addition we will not be able to report (B) all assessed water segments maintaining their quality and at least 20 percent of assessed water segments show improvement above conditions as of 2002. (WQ-15)<sup>CPM W6</sup>

**STATUS:** *This statement for this paragraph will remain the same.*

5. Implement aggressively the watershed approach to water quality assessment and TMDL development and implementation in Utah to complete assessments and develop TMDLs for impaired waters according to the approved 303(d) list.<sup>WTR</sup>

- ◆ Provide leadership and direction in promoting the Watershed Approach in developing TMDLs for targeted areas of impairment.
- ◆ Complete integrated report pursuant to CWA Sections 303(d) and 305(b) and submit to EPA by April 1, 2006. (WQ-8)
- ◆ Direct the development of local basin Steering Committees and Technical Advisory groups to oversee development and implementation of TMDL watershed based plans.
- ◆ Work with USDA/NRCS to promote the integration of EQIP funding into the watershed approach basin NPS priority areas by participation in the Local Work Groups, Zone Executive Committee Meetings, State Technical Committees.
- ◆ Utilize local watershed steering and technical advisory committees to develop TMDLs or watershed plans in accordance with Utah's Watershed Approach Framework or EPA's FY 04 NPS Grant Guidelines.
- ◆ Establish local watershed coordinator positions for high priority watersheds.

**Measures:**

- a. Number of developed TMDLs or Watershed Plans and identify those in progress. (NPS Plan Task 4)

**STATUS:** *2006 TMDL Submissions*

Original scheduled percent of TMDLs complete by 2006: 64% (91)  
Actual percent of completed TMDLs: 82% (117)

**STATUS:** *2008 TMDL Submissions*

Number of TMDLs scheduled for completion by 2008: 18

Big East Lake	Dissolved Oxygen
Brough Reservoir	Dissolved Oxygen, Temperature
Jordan River from 6.1 miles above Farmington Bay upstream to North Temple	Dissolved Oxygen
Jordan River from Farmington Bay upstream 6.1 miles	Dissolved Oxygen
Lower Gooseberry Reservoir	Dissolved Oxygen
Mill Hollow Reservoir	Total Phosphorus
Newcastle Reservoir	Total Phosphorus, Dissolved Oxygen
Nine Mile Reservoir	Total Phosphorus, Dissolved Oxygen
Palisades Reservoir	Temperature
Piute Reservoir	Total Phosphorus, Temperature
Porcupine Reservoir	Temperature
Recapture Creek Reservoir	Dissolved Oxygen
Red Creek Reservoir (Iron County)	Dissolved Oxygen, Total Phosphorus
Red Fleet Reservoir	Temperature, Dissolved Oxygen
Rock Creek from Green River to headwaters	Temperature, Total Dissolved Solids
Steinaker Reservoir	Temperature, Dissolved Oxygen
Utah Lake	Total Phosphorus, Total Dissolved Solids
Yankee Meadow Reservoir	Dissolved Oxygen

- b. Number of basin steering and technical advisory committees formed and functioning (NPS Plan Tasks 9 & 10)

**STATUS:** *Approximately 30 planning groups are functioning.*

- c. Number of watershed-based plans and ( river miles or acres covered), supported under State NPS Management Programs since beginning of FY-2002 that have been substantially implemented per information reported in GRTS. (WQ-27)

**STATUS:** *This status has not changed since the EOY 2005 Report on the PPA. There are four such watershed including Little Bear River, Chalk Creek, Otter Creek and Newton Creek. Implementation in three of the watersheds has been underway since the early 90's. Also it should be noted that even though there has been substantial implementation in these watersheds there are still water quality problems that might warrant further implementation of BMPs in the future.*

- d. Number of watershed-based plans and water miles or acres covered, supported under State NPS Management Programs since beginning of FY-2002 that have been developed and number of watershed-based plans are being implemented per information reported in GRTS. (PAM#48)

**STATUS:** *Same info as reported in the EOY report for FY2005. Some eleven watershed based plans have been developed and of those nine are being implemented in a major way. They include Little Bear River, Newton Creek, Chalk Creek, East Canyon Creek, San Pitch River, Upper Sevier River, Fremont River, Otter Creek, and Beaver River.*

- e. Complete integrated 305(b) and 303(d) report/list by April 1, 2006. Also update the EPA Assessment Database. (WQ-8&9)

**STATUS:** *Integrated 305(b) and 303(d) report/list and sent by April 1, 2006. Assessment Database updated and sent to EPA.*

- f. Number of priority NPS watershed areas where EQIP funds are being used. Report allocation of EQIP funds to 303(d) waters and approved TMDL watersheds. (NPS Plan Task 34)

**STATUS:** *Some 21% or about \$3,332,000 of USDA/NRCS program funding was utilized to address soil and water quality problems in TMDL approved or 303(d) listed waters in Utah during FY-2006.*

- g. Number of priority watershed coordinator positions developed and functioning according to contract work plans. (NPS Plan Task 9)

**STATUS:** *There are currently nine priority watershed coordinator positions developed and functioning in the Bear River, Lower Weber, Upper Weber, Jordan River, Price/San Rafael, San Pitch, Lower Sevier, Upper Sevier and Virgin River basins.*

- 6. Maintain Water Quality Standards as the basis for effective water quality management and assessment programs. (WQ-5)

**Measures:**

- a. Complete triennial review of WQS including adoption of E. coli standard and other site specific criteria, and submit to the EPA Regional Administrator for review and approval. (July, 2005)

**STATUS:** *The adoption of the E. coli standard and other site specific criteria along with other topographical corrections was previously approved by the Utah Water Quality Board. The final adoption occurred on June 1, 2005.*

- b. Revise Water Quality Standards as warranted and prepare for adoption by the Utah Water Quality Board. (August, 2006)

**STATUS:** *The triennial review of the Water Quality Standards is now in progress. The Utah Water Quality Board authorized rule-making of the proposed changes to Water Quality Standard on October 20, 2006. We expect that the rule-making process for the triennial review of water quality standards will be completed in the spring of 2007.*

- c. Continue implementation of Nutrient Criteria Development Plan. Provide annual progress report to EPA (February). (WQ-2)

**STATUS:** *Nutrient criteria development for streams is progressing on schedule. Reference sites have been stratified according to Ecoregion and have been indexed. A preliminary multi-metric index is in place and testing has begun. Funding has been supported by the 106 grant and by a 104(b)3 grant. Work has not progressed on nutrient criteria development for lakes. All of the initial work will require outside contracts in order to begin subclassification of reservoirs. Wetlands nutrient criteria development is on schedule. Several biological and chemical parameters have been measured seasonally at 35 sites for three years. Appropriate metrics are now being developed.*

7. Maintain compliance with Section 303(d) list submittal requirements and completion of scheduled TMDLs as negotiated with EPA (1998).

**Measures:**

- a. Submit FY-2006 303(d) list to EPA on or before April 1, 2006. The list will identify TMDLs completed during reporting period and those proposed for completion during next reporting period, waters proposed for delisting based on criteria, and waters proposed for development of site specific criteria or alteration of water quality standards. (NPS Plan Task 3 & 5) (WQ-8)<sup>CPM W6</sup>

**STATUS:** *Completed and sent to EPA prior to April 1, 2006.*

- b. Submit completed TMDLs to EPA for review and approval by April 1, 2006 according to TMDL development schedule (1998). (NPS Plan Task 4)

**STATUS:** *Completed*

8. Develop and implement a long-term biological assessment program: (Workplan for FY-2005 supplemental CWA Section 106 grant funds)

Traditionally Utah's Division of Water Quality (UDWQ) has focused on assessing the chemical integrity of stream ecosystems. Biological samples were collected at a number of long-term locations, but these data were primarily used to monitor qualitative changes in the composition of macroinvertebrate assemblages at these sites. Recently the DWQ has moved toward creating tools that will allow the state to quantify the biological integrity of Utah's stream ecosystems. Supplemental FY-2005 CWA Section 106 grant dollars will be used for additional processing and monitoring expenses incurred with the expansion of the biological assessment program.

## GOALS / Activities

- A. Increase the number of yearly biological sample locations from ~24 to ~74 and use these data to support a number of water quality programs:
- ◇ Continue to sample 5-10 reference sites per year to enhance biological assessment tools.
  - ◇ Sample new locations within rotating basins to quantify the biological integrity of state waters that have not been assessed (303(d) list).
  - ◇ Use biological assessment data to help set endpoint targets for TMDL implementation.
  - ◇ Sample at locations identified as in need of further study to determine impairment status.
  - ◇ Continue to sample long-term sites to develop long-term trends of biological integrity.

### Measures:

- a. Develop an annual biological monitoring strategy that best balances the programmatic needs of stakeholders and make the list of sites available for review. (8/1/05 Jeff & Richard)

**STATUS:** *Completed through 2006. A formalized process for generating yearly biological monitoring plans has been established.*

- b. Collect physical habitat, macroinvertebrate, and periphyton samples at ~50 streams annually to provide the data necessary to augment assessment tools and fulfill both TMDL and 303(d) assessment needs. (11/1/05 Richard)
- c. Analyze existing reference data and develop a report that identifies specific types of streams where additional reference data are needed. (Jeff 5/1/06)

**STATUS:** *Preliminary analyses have been conducted. Much of the macroinvertebrate reference data have only become available in the last couple of months. Analyses of the entire reference dataset through 2005 in ongoing.*

- d. Digitize both field and laboratory data and store in a readily accessible database. (Jeff & Arne ongoing)

**STATUS:** *Data have been digitized through 2005.*

- e. Update QA/QC procedures to describe field collection procedures. (Richard ongoing)
- f. Expand field and laboratory periphyton collections to include the collection, identification, and enumeration of diatoms.

**STATUS:** *A contract to identify and enumerate diatoms has been established. Data for 2004-2006 field collections are anticipated later this year.*

**Measures:**

- a. Collect periphyton samples at all biological monitoring sites and preserve them such that diatoms can be enumerated and identified. (Richard 11/1/05)
- b. Compare assessments made with diatoms with those made with macroinvertebrates to determine stressors-specific responses of each assemblage. (Jeff ongoing)

**STATUS:** *Ongoing.*

- c. Develop an autecology table that links diatom taxa to characteristics that describe water quality.

**STATUS:** *A contract is in place to generate these data.*

- B. Develop tools that generate easily-interpretable, quantitative estimates of biological integrity from raw taxonomic lists.

**STATUS:** *Ongoing.*

**Measures:**

- a. Compile and utilize existing biological data to create preliminary site assessments and include these assessments in the 2006 Integrated Report. (Jeff & Tom 12/01/2006)

**STATUS:** *Assessments were made for sites within the Wasatch/Uinta Ecoregion. However, a decision was made to postpone biological listing to 2008, due in part to the paucity of reference data available at the time of reporting.*

- b. Develop, evaluate, and refine a macroinvertebrate RIVPACS-type empirical model. (Jeff 5/1/06).
- c. Develop, calibrate, and refine macroinvertebrate multimetric indices for the major ecoregions of the State. (Jeff 6/1/06)

**STATUS:** *Multimetric Indices were generated for the Wasatch/Uinta Ecoregion. However, recent sampling efforts have recently allowed us to significantly augment our reference site data. Statewide metrics that incorporate the expanded reference site network will be generated and calibrated in 2007.*

- d. Evaluate all assessment tools and determine appropriate thresholds of impairment and develop a procedure for incorporating these measures into the listing process. (Jeff & division management 2007)

***STATUS: Ongoing.***

- e. Document all procedures and analyses used in tool development so that all methodology is transparent. (Jeff and Richard ongoing)

***STATUS: Ongoing. A draft report is anticipated in 2007.***

- f. Prepare and distribute a yearly report that summarizes and interprets the biological integrity of all sites with sufficient biological data. (ongoing)

***STATUS: Ongoing. A report will be prepared after final RIVPAS-type models and Multimetric indices have been created.***

**ATTACHEMENT -- MWPP**

Facility	MWPP 2005	SSO Info	Notes
Alpine City	1	0	
Altamont, Town of	1	1	Basement
American Fork	1	0	
Ash Creek Special Service District	1	1	
Ashley Valley Sewer Management Board			
Ashley Valley Water and Sewer ID	1	1	
Aurora, City of			
Ballard Town	1	0	
Bear Lake Special Service District			
Bear River City	1	1	
Beaver City	1	0	
Blanding City			
Bountiful, City of			
Brain Head, Town of			
Brigham City	1	0	
Cedar City	1	5	Basement
Cedar Hills	1	0	
Centerfield Town	1	0	
Central Davis County Sewer District	1	6	Basement
Central Valley WRF	1	0	
Central Weber	1	2	AO was issued to this community
Clearfield City	1	3	
Clinton City	1	3	
Coalville City			
Corinne City			
Cottonwood ID	1	0	
Delta City	1	1	Basement
Duchesne, City of	1	2	Basement
Dutch John			
Eagle Mountain, Town of			
East Carbon City			
Elk Ridge Town	1	0	
Enoch City	1	0	
Enterprise, City of			
Ephraim City	1	0	
Escalante City			
Eureka City			
Farr West City	1	0	
Fillmore	1	0	
Fountain Green City	1	0	

Francis Town			
Fruit Heights City			
Garland City	1	3	AO was issued to this community
Grand Water & Sewer Service Agency			
Granger-Hunter ID	1	0	
Grantsville City			
Green River, City of	1	0	
Gunnison City			
Hanksville SSD	1	0	
Harrisville City			
Heber City			
Heber Valley SSD	1	0	
Helper City			
Henefer			
Highland City			
Hildale City			
Hinckley Town	1	0	
Hyde Park City	1	1	In basement
Hyrum			
Ivins City	1	0	
Jordanelle Special Service District			
Kamas City	1	0	
Kanab, City of	1	0	
Kearns ID	1	2	
Lake Point ID	1	0	
Layton			
Lehi	1	0	
Lewiston City			
Lindon City			
Logan City			
Long Valley Sewer Improvement District			
Magna Water Co Improvement District	1	0	
Manila, Town of			
Manti City	1	0	
Mantua, Town of			
Mapleton City			
Measar WID	1	0	
Midvale	1	0	
Midvalley ID	1	0	
Midway SD	1	0	
Milford, City of	1	0	
Minersville Town			
Moab, City of	1	1	In basement
Monticello, City of	1	1	In basement

Morgan City	1	0	
Moroni City			
Mountain Green Sewer Improvement District	1	0	
Mt. Pleasant City	1	0	
Murray City			
Myton City			
Neola W&SD	1	0	
Nephi City	1	2	In basement
Nibley City			
North Davis SD	1	0	
North Logan City	1	0	
North Ogden City			
North Village SSD			
Oakley City			
Ogden City			
Orem, City of			
Panguitch City			
Parowan City			
Payson City	1	0	
Perry City			
Plain City			
Pleasant Grove City	1	1	In basement
Pleasant View City			
Price City			
Price River Water Improvement District			
Providence City	1	0	
Provo, City of			
Redmond Town	1	0	
Richfield City	1	0	
Richmond City	1	0	
River Heights City			
Riverdale City	1	1	
Roosevelt City			
Roy City	1	0	
Saint George, City of	1	2	
Salem City	1	1	In basement
Salina City	1	0	
Salt Lake City	1	20	
Salt Lake City Suburban Sanitary District #1			
Salt Lake City Suburban Sanitary District #2			
Salt Lake County Service Area #3	1	0	
San Juan Special Service District #1			
Sandy SID	1	1	
Santa Clara, City of	1	0	

Santaquin City			
Scofield Town			
Smithfield City			
Snyderville Basin WRF	1	0	
Solitude Improvement District			
South Davis SD	1	1	
South Odgen City	1	4	
South Salt Lake	1	0	
South Valley Sewer District	1	5	
South Valley Water Reclamation Facility	1	0	
South Weber City			
Spanish Fork City			
Spanish Valley Water & Sewer Improvement District			
Spring City			
Springdale, Town of			
Springville City			
Standsbury Park ID			
Sunnyside, City of			
Sunset City	1	0	
Syracuse City			
Tabiona, Town of	1	0	
Taylorsville-Bennion ID	1	0	
Timpanogos SSD			
Tooele City			
Tremonton City	1	10	AO was issued to this community
Tropic, Town of			
Twin Creeks Special Service District			
Uintah Highlands ID	1	0	
Vernal City	1	0	
Washington City			
Washington Terrace, City of			
Weber County ISA #1	1	0	
Wellington City	1	0	
Wellsville City	1	1	
Wendover, City of	1	0	
West Jordan City			
West Point City			
Wolf Creek Sewer Improvement District			
<b>TOTALS</b>	<b>86</b>	<b>83</b>	