DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY
FY2011 GOALS

I. ENVIRONMENT

DWQ

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.

UPDES ENGINEERING/PERMITS

Maintain an acceptable UPDES Program per agreement with EPA. 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.

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 UPDES Program 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.

Continue to fully implement the ongoing UPDES pretreatment, biosolids, CAFO, and stormwater management programs as per the following "CORE PROGRAM ACTIVITIES", "COMPLIANCE AND ENFORCEMENT ACTIVITIES" and "PERMIT ACTIVITIES".

UPDES Core Program Activities

1. DWQ will report the number and percent of facilities that have a discharge requiring an individual permit that:

   (a) are covered by a current UPDES permit (FY 2011 EOY Report Edith)**(WQ-12)**

   (b) have expired individual permits (FY 2011 EOY Report Edith)

(c) have applied for, but have not yet been issued an individual permit FY 2011 EOY Report Jeff Studenka or John Kennington)

(d) have individual permits under administrative or judicial appeal (FY 2011 EOY) Report Jeff Studenka or John Kennington)

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 backlogged 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%. (FY 2011 EOY Report Jeff Studenka or John Kennington)

3. Semiannually indicate the 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. (March 31, 2011 and September 30, 2011, Jeff Studenka)

4. Involve regulatory agencies and the public as necessary to effectively permit storm water discharges. (Ongoing, Jeff Studenka).

a. The State program is accessible by the public and regulated entities (i.e., contact information and web sites, etc.).

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

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

5. Identify in ICIS the following Pretreatment Program statistics:

a. The number of significant industrial users (SIUs) that discharge to POTWs with approved Pretreatment Programs,

b. The number of significant industrial users (SIUs) that discharge to POTWs with approved Pretreatment Programs that have adequate control mechanisms implementing applicable pretreatment standards and requirements. (95% coverage is the Regional commitment)

c. The number of categorical industrial users (CIUs) that have adequate control mechanisms implementing applicable pretreatment standards and requirements in approved pretreatment programs. (Jen and Edith)

6. a. Perform inspections on 40% of all approved pretreatment programs

b. Perform audits on 20% of all approved pretreatment programs. (Ongoing Jen)

c. Provide EPA with the number and percent of local Pretreatment programs that have implemented Pretreatment Streamlining Regulations. (FY 2011 EOY Report Jen)

d. Provide the number of categorical industrial users (CIUs) in non-approved pretreatment programs (FY 11 EOY Report, Jen)

e. Provide the number of CIUs in non-approved pretreatment programs permitted by the State. (FY 11 EOY Report, Jen)

7. Continue to assist in implementation of the Utah AFO/CAFO Strategy. Specific commitments include:

a. Subsequent to CAFO rule promulgation develop a new General Permit based on revised CAFO Rules. (Ongoing, Don)

b. For all permitted CAFOs if available, enter permit facility data, permit event data, and inspection data into ICIS. Provide EPA with copies of all CAFO inspection reports. (Ongoing, Don)

c. Inform EPA of animal feeding operations that are impacting water quality annually (FY 2011 EOY Report, Don).

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

e. EPA will provide CAFO rule development updates, to keep DWQ informed. (Ongoing, Don)

8. Implement the Sewage Sludge (Biosolids) regulations

a. % and # of UPDES permits that contain biosolids language. (FY 2011 EOY Report Mark)

b. Maintain data in the ICIS database.

UPDES 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 ICS data system such that the federally required data fields are current. (Ongoing, Edith)

b. Provide to the maximum extent possible the RIDE elements required. This depends on information that is obtainable with the permittee's cooperation and economic restraints. (Ongoing Jeff Studenka/Edith)

c. ICIS data is entered accurately which includes permitting, compliance, and enforcement data.

d. DWQ will continue to assess the Watch List on a quarterly basis and coordinate the QNCR with EPA. (Jeff Studenka/Edith, Ongoing)

2. Non Major Facilities Compliance Report.

Continue to report non-major facilities compliance data the same as majors through the ICIS data management system. (Ongoing Edith/Jeff Studenka

3. Coordinate inspection activities among programs and between the State and USEPA. Incorporate targeted USEPA national and regional priority sectors, as agreed upon between DWQ and USEPA. Include those sectors, as agreed upon, when planning IU inspections by DWQ 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. Utah's Annual Inspection Plan will, to the extent possible, incorporate the EPA NPDES Compliance and Monitoring Strategy (Oct. 17, 2007) to include details of inspection commitments for both traditional NPDES core programs and wet weather priority areas identified in the EPA strategy. (Ongoing Lonnie, Jeff)

a. Submit draft inspection plan for FY12 by September 1, 2011, and final inspection plan by October 1, 2011 or within 15 of days of receiving EPA's formal comments on the draft plan if EPA comments are received later than September 15, 2011. (Lonnie)

b. Track inspections in ICIS. (Ongoing Lonnie, Jeff)

c. As noted in the inspection plan, DWQ will conduct the following minimum number of inspections during FY11:

UPDES INSPECTION SUMMARY TABLE		
INSPECTION/FACILITY TYPE	NO.	COMMENTS
Major Permittee Facilities - CEI	16	
Minor Permittee Facilities - CEI	16	
Minor Industrial Permittee - RI	24	
Minor Municipal Permittee - RI	18	
Pretreatment (Audit and PCI)	12	4 audits and 8 inspections
Biosolid Program Inspections	6	20% of permitted facilities
Stormwater Const. Phase 1	62	10% of active facilities as of July 2010
Stormwater Const. Phase 2	34	5% of active facilities as of July 2010
Stormwater Industrial	53	10% of active facilities as of July 2010

d. EPA Region 8 may conduct up to 4 joint oversight inspection with DWQ in FY11..

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)

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

c. Submit to EPA Region 8 a report by October 15, 2010, with information for FY10, that will include:

i Number of UPDES inspections at major facilities where SSO information was received. (Jen)

ii An updated SSO inventory and the causes of the SSOs. (Jen)

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

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

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

vi A description of how 20% of the SSOs, that were reported, were addressed.

d. The State will take enforcement action whenever deemed necessary to protect Waters of the State. SSO enforcement actions will be entered into ICIS NPDES

as single event violations. Copies of SSO inspection reports will be provided to EPA. (Ongoing Jen)

5. Storm Water

   a. Division personnel will conduct the minimum numbers of stormwater inspections of permitted and unpermitted facilities shown in the "UPDES Inspection Summary Table" in Section 3.c. above. All inspections will be entered into ICIS and copies of inspection reports and enforcement actions will be provided to EPA Region 8. Utah's Annual Inspection Plan will include the industrial sectors that will be focus areas for FY11 as well as any geographic areas targeted for construction inspections (Ongoing, Mike George).

   b. Continue implementation of MS4 permits which will ensure adequate sediment control inspections at local construction sites. This should increase the number of overall storm water inspections performed in the state. (Ongoing Mike George, Rhonda Thiele and Harry Campbell).

   c. EPA Region 8 will identify the difference between the rough draft Enforcement Management System that the DWQ submitted to EPA and the Enforcement Response Guide. DWQ will work with EPA Region 8 to develop Utah's Enforcement Response Guide (ERG) to include storm water within 6 months of the issuance of EPA Region 8's final storm water ERG.

   d. DWQ agrees to inspect all new sites, as we become aware of them, associated with a permittee that has been cited in any national enforcement case that Utah has joined after the national consent decree is final. The inspection of such sites will count toward the inspection totals in this PPA.

   f. DWQ will provide EPA with a copy of Utah's current storm water database on 3-31-10, and 9-30-10 either electronically or on CD-rom.

6. Assure proper implementation and consistent enforcement of WET requirements in UPDES 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. EPA Region 8 will notify DWQ when the EPA comments received are considered final. (Ongoing Mike Herkimer)

   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 Mike Herkimer)

c. Utah will submit as part of their FY2011 EOY report: a list of the facilities which are required to have WET limits or WET monitoring, a list of facilities that have entered into a TIE/TRE during FY11, and a list of any formal enforcement actions which included WET violations, (Mike Herkimer).

7. Biosolids-Promote the beneficial use of biosolids

a. Continue to conduct Biosolids inspections as indicated under UPDES Compliance and Enforcement Activities, Part 3c. (Ongoing Mark Schmitz)

b. Reissue all biosolids permits which will expire in FY2011 and transition into consolidated permits as needed. (Ongoing Mark Schmitz)

c. Submit an End-of-Year report to EPA for the preceding calendar year containing a summary of DWQs actions under their biosolids program. Also include a list of facilities that beneficially reuse biosolids, methods of reuse and the tons reused. (4/1/2011, Mark Schmitz)

8. Enforcement Agreement.

a. 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.

b. EPA will identify and provide copies, if possible, of any policy or guidance documents used when evaluating the appropriateness of DWQ's enforcement actions. DWQ agrees to evaluate all violations and determine an appropriate response and take that action.

c DWQ will take timely and appropriate enforcement against facilities in Significant Non-compliance.

d. DWQ understands that EPA Region 8 will continue to participate in and to initiate regional and national enforcement cases, and will promptly inform and discuss with DWQ any national and regional enforcement cases in Utah.

e Region 8 agrees to coordinate with and appropriately notify DWQ when it conducts inspections and investigations for regional and national enforcement cases.

f. Until State resources become available, EPA will review the DMR-QA results and follow up with facilities. Utah DWQ will be copied on any follow-up.

g. DWQ will incorporate approved compliance schedules and deadlines into enforcement actions such that these schedules and deadlines are enforceable under the NOV/Order.

h. In cooperation with DWQ, EPA Region 8 may perform inspections in regional and national priority areas according to national guidance. EPA may conduct inspections and issue enforcement actions as appropriate and will advise, consult with, and coordinate with DWQ prior to such activity.

i. DWQ will work with EPA Region 8 to implement the National Wet Weather SNC Policy.

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

a. Continue to implement "Utah's Strategy To Address Pollution From Animal Feeding Operations" This will include continuing to submit Utah's annual AFO/CAFO Strategy report to EPA Region 8 by February 28th of each year.

b. Maintain an inventory of all permitted CAFOs during FY2011

c. Inspect at least 20% of the permitted CAFOs during FY2011. (this will include, at a minimum, inspection of each permitted CAFO at least once during the life of its 5 year permit period)

d. Inspect at least 20% of any unpermitted large CAFOs only to determine if they are discharging (each unpermitted large CAFO will be inspected during the next 5 years)

e. All permits, inspections and appropriate enforcement data for permitted CAFOs are entered into ICIS. (hard copies of inspection reports and enforcement actions will be submitted to EPA Region 8).

f. Include in the End-of-Year report for FY2011 (Don):

i. Total known number of permitted CAFOs in Utah.

ii. Total known number of permitted CAFOs in priority watersheds.

iii. Numbers and percent of permitted CAFOs inspected.

iv. Number of CAFOs that are determined to be discharging to waters of the State.

v. Numbers and percent of total permitted CAFOs inspected in priority watersheds.

vi. Number of enforcement actions taken against un-permitted facilities and permitted CAFOs, including:

- Number of Settlement Agreements
- For each case, any penalty amount assessed and collected

viii. Number of compliance assistance workshops, training sessions, and/or presentations given for AFO/CAFO operators and/or Ag organizations.

ix After rule revision and issuance of the next CAFO permit, Nutrient Management Plans for CAFOs shall be tracked in ICIS.

x. For unpermitted CAFOs the number of complaints received.

10. EPA will determine the number of inspections conducted at midyear and end of year (March 31, 2011) by DWQ in each category above by pulling this information from ICIS. Any inspections, performed on or before March 31, 2011, but which do not appear in ICIS by April 15, 2011, 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.

12. Submit to EPA appropriate enforcement documents at appropriate times as follows:

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

b. DWQ will provide penalty calculations and all necessary background documentation to EPA for enforcement actions against major facilities and wet weather facilities (e.g. cases in priority areas; storm water, CAFOs, SSOs). The penalty calculations and background information should be sent to EPA 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. If no comments are received within the seven calendar day period the State will proceed to culmination of the enforcement action. (Ongoing DWQ Staff)

c. SAs for minor permittees and non wet weather un-permitted facilities are sent to EPA after they are settled (Ongoing DWQ Staff)

13. Federal Facility Inspections

a. Region 8 will ask DWQ to conduct single and/or multimedia inspections at federal facility NPDES majors with recurrent effluent violations. Region 8 will conduct these inspections if DWQ does not plan to conduct the inspections. Region 8 will ask authorized states to work with EPA to target federal facilities for multimedia inspections. DWQ will be asked to lead the NPDES portion of a multimedia inspection at the selected federal facility. If DWQ does not want to conduct the inspection, EPA will conduct the inspection in lieu of the State.

b. During FY11, EPA Region 8 may perform inspections at all Federal Facility construction sites that have been awarded contract dollars for site construction, in cooperation with DWQ inspectors.

14. 404 Enforcement Actions

EPA Region 8 will take the lead on 404 enforcement actions that have associated 402 violations, except where EPA determines combined cases may not be in the best interest of litigation.

UPDES Permit Activities

1. Implement the Phase II Storm Water Program.

a. Continue outreach/education activities. (Ongoing)

b. Encourage DWQ staff, District Engineers and municipal and county staff to assist with inspections as allowed by time and resource constraints. (Jeff Studenka Ongoing)

c. In FY11, DWQ will conduct one Phase I MS4 audit.

d. In FY11, DWQ will continue to implement their audit and inspection plan for Phase II MS4s to ensure that compliance determinations for these programs are completed within the next 5 years. The audit and inspection plan was submitted to EPA Region 8 for review and comment on or before March 31, 2009. This plan is subject to change as agreed to by EPA and DWQ.

2. Implement the Utah AFO/CAFO strategy.

a. Implement the new EPA CAFO rules in Utah within FY 2011, and provide progress on adoption of the 2008 final CAFO rule to EPA. (Don).

b. Issue a new CAFO UPDES General permit within six months of promulgation of State rules, (Don).

4. Utah Sewer Management Program (USMP)

a. During FY11 Utah intends to implement a comprehensive state-wide permit program for the planning, operation and maintenance of all public wastewater sewer collection systems. Utah will report to EPA on the status of program implementation in the FY11 End of Year Report. (John Kennington)

3. Reasonable Potential Process

a. Utah will develop and submit the process/procedures for RP consistent with 40 CFR 122.44(d). Draft procedures will be submitted to EPA by September 30, 2011. (John Kennington or Jeff Studenka)

TMDL/WATERSHED

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

   a. Complete and track scheduled TMDLs for listed waterbodies according to approved TMDL submission pace. (Semi-annual in May and November, Carl Adams) Any waters listed will comply with EPA guidelines to complete TMDLs within a 13 year time frame. **(WQ-8)**

      According to current estimates of listed waters on the 2010 IR that will result in TMDLs and the requirement to complete TMDLs within 13 years since first listing, an average of 3 TMDLs will need to be completed per year beginning with 2011. The Division anticipates completing 3 waterbody/pollutant combination TMDLs by the end of FY 2011 (under management review).

   b. Incorporate into rule by reference all TMDLs approved by EPA within 120 days after notification. (Ongoing Carl Adams)

2. Monitor implementation activities for completed TMDLs by establishing implementation milestones and tracking their completion. Tracking reports will be updated annually on January 15. (Carl Adams)

3. Determine the number of waterbodies on the 2002 303(d) list that have EPA approved TMDL, 4b, or 5m documents (**WQ-21**).

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

5. Implement the watershed approach to effectively and efficiently support the development and implementation of TMDLs in Utah for impaired waters according to the approved 303(d) list**.**

6. Continue to implement the Nonpoint Source Program based on strong State and local institutional capabilities using the Watershed Approach in support of TMDL development.

   Measures:

   a. Conduct a review of the NPS Management Program jointly with key partners and stakeholders to improve the 319 funding process and strengthen overall program operation and management.

b. Update GRTS annually by entering annual progress report information according to January 1st deadlines. (NPS Plan Task 33)

c. Submit NPS Annual Report by January 31 of each year. (NPS Plan Task 34)

d. Complete the Abandoned Mine component to the state's NPS Management Plan and submit to EPA for review by March 31, 2012.

e. Participate with UDWR through its Blue Ribbon Fishery and Habitat Council programs in the acquisition/protection of stream corridors.

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

g. Obtain 319 project final reports from project sponsors and coordinate with EPA to obtain concurrence for grant closure in a 5 year time frame.

h. Implement best management practices appropriately and effectively and achieve natural resource improvements for 319 NPS Watershed Projects. Obtain available information of reductions in nonpoint source loadings for sediments, nitrogen and phosphorus, and improvements in water quality. Report load reduction and water quality information in project annual reports (GRTS), project final reports and NPS Program annual report. (NPS Plan Tasks 2, 6, 36 & 40, **WQ9)**

i. 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. (**WQ-27)**

j. Report the number of waterbodies identified (in 2000 or subsequent years) as being primarily nonpoint source (NPS)-impaired that are partially or fully restored. Target for FY-2011 is 2 watersheds (East Fork Sevier River and Fremont River). (**WQ10**)

k. Report the number of developed Watershed Plans and identify those in progress. (NPS Plan Task 4)

l. Report the number of watershed steering and (or) technical advisory committees formed and functioning during past year. (NPS Plan Tasks 9 & 10)

m. Report the number of priority NPS watershed areas where EQIP funds are used to implement conservation projects. Report allocation of EQIP funds to 303(d) waters and approved TMDL watersheds. (NPS Plan Task 34)

n. Report the number of priority watershed coordinator positions developed and functioning according to DWQ contract work plans. (NPS Plan Task 9)

GROUND WATER PROTECTION

1. Maintain an effective Underground Injection Control Program per agreement with EPA. 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 a 1422 UIC Program, the Regional Administrator of the United States Environmental Protection Agency (USEPA) Region 8 and the Director of the Utah DWQ 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 (40 CFR Parts 144 and 147) to adequately maintain its 1422 UIC Program, even when these activities are not specifically defined by goals, measures, and/or reporting requirements. 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.

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

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

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

    c. 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.

3. To protect Underground Sources of Drinking Water (USDWs) from contamination by maintaining and implementing an effective core program, the DWQ 1422 UIC Program agrees to

    a. Evaluation of core program effectiveness, reported in the semi-annual and annual narrative program report to the Administrator. (See Table 1 for specific reporting dates – Semi-Annual and Annual Narratives – Candace Cady).

    b. Enforce the 1999 Class V Rule regarding motor vehicle waste disposal wells (MVWDWs) and large capacity cesspools (LCCs). MVWDWs and LCCs are closed as they are identified. Priority is given to identifying these wells within groundwater-based source water protection zones as delineated by the Utah Division of Drinking Water, Source Water Protection Program. (See Semi-Annual and Annual Narratives for details. (Ongoing, Candace Cady))

    c. Identify and report the number and percent of injection wells that are used to inject industrial, municipal, or hazardous waste (Class I) wells that fail mechanical integrity and maximize the number that are returned to compliance within 180 days, thereby reducing the potential to endanger USDWs. EPA

Region 8 FY11 PAM SDW-7a target is 95%.

Report:

- Number that lose mechanical integrity.

- Number that lose mechanical integrity that are returned to compliance within 180 days, expressed as numerator over denominator.

d. Identify and report the number and percent of injection wells that are used for salt solution mining (Class III) that lose mechanical integrity and maximize the number that are returned to compliance within 180 days, thereby reducing the potential to endanger USDWs. EPA Region 8 FY11~~0~~ PAM SDW-7c target is 95%.

Report:

- Number that lose mechanical integrity.

- Number that lose mechanical integrity that are returned to compliance within 180 days, expressed as numerator over denominator.

e. Identify and report High Priority Class V wells identified in sensitive ground water protection areas* and maximize the number that are closed or permitted thereby reducing the potential to endanger underground sources of drinking water. EPA Region 8 FY11 PAM SDW-8 target is 85%.

Report:

- Number of high priority Class V wells in sensitive ground water protection areas that have been identified, and the number closed or permitted in FY11 reporting period.

* Although Utah has not formally delineated "other sensitive ground water areas" throughout the state as defined by the December 7, 1999 final rule, the 1422 UIC Program will continue to prioritize the identification, reporting, and return-to-compliance of MVWDW and other high priority wells within Source Water Protection Zones and other areas, although not formally delineated, where risk to human health and vulnerability to ground water contamination is recognized.

f. Ensure Utah UIC Program monitoring activities are performed according to the EPA-approved Utah DWQ Quality Assurance Plan for the UIC Program (July 5, 1990).

g. Track EPA’s development of rules for carbon sequestration. (Candace Cady).

4. 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.

   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 reporting dates - Semi-Annual and Annual Narratives – Candace Cady).

   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 1999 Class V rule regarding the closure of motor vehicle waste disposal wells (MVWDWs) and large capacity cesspools (LCCs). (See Annual Narrative – Candace Cady).

5. Electronic Submittal to the National UIC Database

   The Utah Automated Geographic Reference Center will continue working with DWQ on the development and implementation of a tool that will access the National UIC Database Schema and Schematron validation web service in real time as we are editing our database. This will greatly improve the quality of data entered into the database and improve the efficiency of our reporting by ensuring that all data entered into Utah's UIC Geodatabase meets the validation rules for submittal to the National UIC Database.

   Priority for entering this data is as follows:

   1. all active facilities permitted,
   2. all active facilities inventoried since January 2003,
   3. all inactive facilities inventoried since January 2003,
   4. all inactive facilities permitted,
   5. all historical (pre-January 2003) facilities - active and inactive,

   It is the goal of DWQ to opt out of traditional reporting within six months after its successful submittal of FY11 annual reporting information.

Table 1 - UIC FY11 Reporting Requirements*

Due Date	**Reporting Cycle**	**Report Required**
January 20 (1st Quarter Date)	Quarterly	Quarterly Exceptions List (Form 7520-4)
April 20 (2nd Quarter Date)	Quarterly, Semi-Annual	**Quarterly** Quarterly Exceptions List (Form 7520-4) **Semi-Annual** Compliance Evaluation and Enforcement (Form 7520-2A) Significant Non-Compliance and Enforcement (Form 7520-2B) Inspections, and Mechanical Integrity Testing (Form 7520-3) Program Activity Measures (PAMs) Electronic Spreadsheet Report **OR** "Extra Reports" Class V Activities Narrative
July 20 (3rd Quarter Date)	Quarterly	Quarterly Exceptions List (Form 7520-4)
October 20 (4th Quarter Date)	Quarterly, Semi-Annual, Annual	**Quarterly** Quarterly Exceptions List (Form 7520-4) **Semi-Annual** Compliance Evaluation and Enforcement (Form 7520-2A) Significant Non-Compliance and Enforcement (Form 7520-2B) Inspections, and Mechanical Integrity Testing (Form 7520-3) Program Activity Measures (PAMs) Electronic Spreadsheet Report **OR** "Extra Reports" **Annual** Permit Review and Issuance, AOR (Form 7520-1) Annual Program Narrative Class V Inventory Progress
December 31	Annual	Final Financial Status Report (FSR)

*Once the State and EPA have determined that electronic reporting has been successfully implemented during FY 11, paper reporting (including 7520s) will no longer be necessary.

5. Continue administration of a comprehensive ground water protection program according to priorities established in Utah Ground Water Protection Strategy and the annual FY11 Division of Water Quality/Goals and Objectives.

Measures:

a. End-of-year report as required by EPA grant on achievement of FY11 DWQ/Ground Water Proam Goals and Objectives. (Rob Herbert due 11)

b. Continue participation in the Ground Water Protection Council National Ground Water Strategy Committee with EPA Headquarters, Regions, and States. The intent is to help EPA develop a national strategy for refocusing EPA and States efforts on ground-water protection. (Bill Damery ongoing)

WATER QUALITY MANAGEMENT

1. Implement an assessment program for the waters of the State through development and submission of the *Integrated Report*.

Measures:

a. Finalize the 2008 and 2010 *Integrated Reports*.

b. Update the EPA Assessment Database, (ADB,version 2 or later). **(WQ7)**

c. In collaboration with EPA, develop a plan for modifying analytical methods and reporting for the 2012 *Integrated Report*. In particular, this plan will emphasize: revisions to assessment methods (see below 1(d)), better integration of the 305(b) report and 303(d) list with the ADB, and edits to the text of reports to more effectively convey WQ status and concerns to our stakeholders.

d. Revise assessment methods to: 1) accommodate DWQ's newly adopted tiered monitoring strategy, 2) describe approaches for the use of randomly selected sites for 305(b) reporting, and 3) to more accurately assess biological uses support of Utah's reservoirs. Document these assessment method changes and submit them for formal public comment (Feb., 2011)

e. Report the number of waterbodies identified in 2002 (baseline) as not attaining water quality standards where standards are now fully attained. (cumulative) **(SP-10)**

f. Report the specific causes of waterbody impairment identified by states in 2002 (baseline). (cumulative) **(SP-11)**

g. Report the number of impaired watersheds (at the 12 digit HUC scale), where water quality conditions improve (cumulative). The target measure estimated for the target for 2012 is 4. (Note: Improved means that one or more of the impairment causes identified in 2002 are removed for at least 40 per cent of the impaired assessment units or impaired miles/acres.) **(SP-12)**

h. Develop a list of priority watersheds at the 12 digit HUC scale.

2. Maintain Water Quality Standards as the basis for effective water quality management and assessment programs.

Measures:

a. Continue to compile a list of potential water quality standards revisions to be included in the upcoming triennial review, including: clarification of biological assessment uses, a CWA §401 policy, further antidegradation revisions, nutrient criteria (see *Water Quality Management*, Section 4), and appropriate modifications to Great Salt Lake standards (see *Water Quality Management*, Section 3). Submit the existing list of proposed changes and a request for additional changes for public comment and input by April 1, 2011 **(WQ3 & WQ4)**

b. Continue to collaborate with the water quality standards workgroup of stakeholders and partners on WQS revisions.

c. Continue to work with EPA and other interested stakeholders on revisions to Utah's antidegradation procedures, particularly with regard to their use in association with general permits and procedures for categorical protection of waterbodies.

d. Document modeling procedures for the application of standards to UPDES permits through Waste Load Analyses.

3. Development of rules, policies, and procedures to ensure protection of Great Salt Lake and its surrounding wetlands.

a. Develop and detailed water quality management strategy for Great Salt Lake (GSL)—in collaboration with EPA and other interested stakeholders—that identifies an overarching strategy toward rigorous and defensible standards and assessment methods for the ecosystem. This plan will document specific tasks and identify roles and responsibilities of DWQ and EPA staff to complete key interim goals.

b. Continue numerous efforts to encourage collaboration among DWQs sister State and Federal agencies with related management responsibilities for GSL. In particular, work to ensure that water quality is emphasized by the Governor's

newly created GSL Advisory Council and is included in the GSL Management Plan under development by Utah's Division of Natural Resources (DNR).

c. Continue ongoing research activities to better understand the condition of GSL's beneficial uses and associated water quality concerns, including: 1) finalization of a paleolimnology study to quantify historic conditions, 2) finalization of the first phase of a remote sensing project to better understand spatial and temporal patterns of algae blooms, 3) development of specific recommendation for a hydrodynamic models that will allow DWQ to quantify the fate and transport of pollutants within and among the lake's major bays, and4) revisions to the existing selenium trophic transfer model.

d. Complete an extensive review of existing and previous data collection efforts conducted by scientists outside of DWQ. Use data obtained from these surveys to develop a comprehensive 10-year monitoring strategy for the GSL and its surrounding wetlands.

e. In collaboration with EPA, develop a specific strategy to assess GSL for mercury-related impairments for the 2012 *Integrated Report*. Identify effective methods to fill key data gaps. Actively seek resources to meet data requirements.

f. Continue to collaborate with EPA on the 401 certification for Great Salt Lake minerals.

g. As resources allow, continue to develop and implement monitoring and assessment methods for GSL wetlands.

h. Modify Utah's Water Quality Standards whenever appropriate to accommodate ongoing development of water quality programs for GSL.

4. Development of numeric nutrient criteria and associated implementation procedures (**WQ-1c)**.

a. Revise classification models to incorporate recently collected reference site data.

b. Begin development of numeric criteria for phosphorous, nitrogen and algal response (e.g., chl-a, secchi disc measures) with clear ties to aquatic life or recreation uses for lakes/reservoirs.

c. Begin development of assessment methods that specify how chemical and biological monitoring data— collected from both screening and intensive monitoring tiers—will be used to support nutrient criteria.

d. Begin development of data collection and analytical methods for the purpose of generating site-specific nutrient criteria to allow modification of regional criteria

whenever empirical evidence suggests that changes are needed to accommodate unique site characteristics.

e. Begin development of appropriate procedures for implementation of numeric nutrient criteria

f. Convene a focused stakeholder group to provide input through the development of nutrient criteria and associated implementation programs.

g. Begin development of a process and associated rule (i.e., variance policy, temporary modification) for implementing numeric nutrient criteria among existing point sources in a manner that is economically tractable, ecologically appropriate, and consistent with CWA rules and regulations.

h. Work with contractors to complete the economic valuations of the net costs and benefits of implementing nutrient criteria. Complete tools that quantify the economic impacts anticipated for individual watersheds or facilities.

5. Develop and implement a long-term biological assessment program **(WQ-3)**:

Measures:

a. Develop an annual biological monitoring strategy that best balances the programmatic needs of stakeholders. Make the list of sites available for review and incorporated into the annual monitoring strategy. (update date - May 15, 2011) **(WQ5)**

b. Develop outreach materials (i.e., website, fact sheets, reports) to more completely describe Utah's biological assessment program to our stakeholders.

c. Collect physical habitat, macroinvertebrate, and periphyton samples at ~74 streams annually to provide the data necessary to augment assessment tools and fulfill long-term, TMDL and 303(d) assessment needs. (September-October, 2010)

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

e. Collect periphyton samples at all biological monitoring sites and preserve them such that diatoms can be enumerated and identified. (September-October, 2010)

f. Develop stressor-specific tolerance values and associated quantification tools to help determine likely causes of observed biological degradation. Focus initially on developing methods of identifying nutrient-related impacts to stream biota.

g. Develop methods of applying existing biological assessment tools to analytical approaches used to extrapolate assessment results from randomly selected sites to streams statewide.

h. Develop assessment methods that better integrate biological and chemical assessment methods to provide an overall assessment of aquatic life beneficial use support for Utah's streams.

i. Compile and utilize existing biological data to create preliminary site assessments and include these assessments in the 2010 Integrated Report.

MONITORING

1. Continue phase-in of re-tooled Monitoring Program for Utah Division of Water Quality according to established schedules (WQ-5)

2. Conduct Tier 1 (probabilistic), Tier 2 (targeted) and Tier 3 (programmatic) monitoring on a rotating basin schedule

   a. Tier 1 Monitoring: Probabilistic
   -Assess biological, chemical and physical integrity of waters of Sevier/Cedar Beaver Basin utilizing selected core and supplemental indicators
   -Participate in National Wetlands Condition Assessment (Summer 2011, Jim, Ben Brown, Alex Anderson)

   b. Tier 2 Monitoring: Targeted
   -Complete intensive targeted monitoring in Uinta Basin
   -Initiate intensive targeted monitoring in Jordan-Utah Lake basin

   c. Tier 3 Monitoring: Programmatic

      1. Continue to implement a statewide mercury in fish tissue monitoring component as part of the long-term monitoring strategy as funding is available. (John Whitehead, Ongoing)

         a. Utilize established workgroup to provide guidance and recommendations for the mercury monitoring program. (John Whitehead, Ongoing)

         b. Participate in the issuing of mercury fish consumption advisories as needed. (John Whitehead Ongoing)
         c. Participate in triennial review preparations/discussion pertaining to Hg.

      2. TMDL monitoring

a. Discharge in large rivers

b. Microbial source tracking

3. Surface Water Compliance

a. Increased DMRs

b. QUAL2K

4. Groundwater monitoring.

5. NPS Effectiveness Monitoring

a. Long-term monitoring stations

6. E. coli cooperative monitoring

a. Continue implementation of monitoring program for *E. coli* to facilitate more rigorous assessment of recreational beneficial uses (Jim and Sandy, ongoing)

3. Oversee and participate in contractor effort to revise, overhaul and implement quality assurance system for water quality division including QAPPs, SOPs, annual monitoring plans, and new documentation requirements for continuous monitoring.

a. Oversee contractor development of overhauled quality assurance system for water quality division

1. QAPPs

2. SOPs

3. New documentation requirements for continuous monitoring

4. Develop and web post Annual Monitoring Plan to include schedule, site locations, monitoring activities, responsible entities, and special studies for meeting program objectives in the SMP. Draft on website: 02/01/2011

b. Training

4. Complete development and initiate roll-out of data management tools based on WQX, AQWMS, ATTAINS

a. Data management tool roll-out and deployment within water quality division

1. WQS

2. AQWMS

3. ATTAINS

b. Training

5. Integrate monitoring strategy elements to full operating levels, including publication of final monitoring strategy and annual monitoring plan for public comment; ongoing maintenance of cooperative monitoring/statewide monitoring council, and monitoring-related website elements

a. Finalize monitoring strategy and place on website for public comment

b. Continue promotion, chairmanship and support of the Statewide Monitoring Council to facilitate coordination of monitoring activities and special studies by local state and federal agencies as well as researchers and volunteer monitoring groups. (Jim/ Rob B.)

1. Equipment and supplies

2. Training

3. Data management

c. Maintain water quality monitoring council website

7. Goal: Participate in design, development and implementation of Great Salt Lake short-, mid- and long-term Monitoring Plan

a. GSL monitoring plan
-Design and implement Great Salt Lake Assessment, phase 1: 2012 IR target
-Collaborate on revision of GSL assessment framework (nutrients, Hg)
-Monitor for MMI GSL impounded wetlands
-Conduct selenium monitoring
-Purchase necessary equipment
-Plan for and provide additional training

SPECIAL STUDIES

1. Continue to chair the Statewide Mercury Work Group. (John Whitehead) (FS-1a)