

# Open Line

## Utah Division of Drinking Water

### Director's Report

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By Kenneth H. Bousfield

In this article I will talk about two items: first, an initiative which the Division is undertaking dealing with Energy Efficiency, and second, the status of the Division's proposal to add Plan Review fees to our fee schedule, as noted in a letter I sent to water systems this past summer.

#### Energy Cost Savings

In cooperation with the water systems and consultants, the Division has pulled together a handbook entitled "*Drinking Water Energy (Cost) Savings Handbook*," which can be accessed on the Division's webpage at [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov) and then clicking on: "*Drinking Water (Cost) Savings Program*." From this website you can access the handbook as a hard copy, which is printable, or have access to the document via the website. The document suggests a 4 step program for implementing cost saving ideas. The first is performing an energy audit. Second is to prepare a request for proposal to select an engineer. Third is investigating energy saving ideas, which are contained in chapter 2 of the handbook, and fourth is to obtain funding.

The handbook is divided into 3 chapters. The first chapter gives an overview of the handbook and outlines the potential energy savings, how to use the handbook, finding the right consultant, and the Drinking Water Board's state revolving funds. The second chapter deals with energy savings ideas and is divided into 13 different areas that are consistent with water systems or facility functions. Within each of those areas the document highlights ideas into three categories: 1) things water systems can do, 2) things that water systems may need help on provided by a consultant, and 3) things that involve capital facilities including new construction or repair or replacement of equipment. The third chapter deals with funding of energy efficient projects and gives 6 specific funding options. These options include: 1) the Utah Drinking Water Board, 2) the Utah Office of Energy Development, 3) Energy Service Companies, 4) Rocky Mountain Power's Wattsmart Program, 5) self-funding through energy savings, and 6) bank financing. At the end of the handbook is an appendix which lists multiple websites that deal with: a) case histories of water systems that saved on their energy costs, b) the Drinking Water Board's SRF funding application forms, c) the Utah Energy Offices funding program, d) the State law dealing with Energy Service Companies, and a list of state-approved Energy Service Companies, e) Rocky Mountain Power's Wattsmart program, f) instructions on performing energy audits, and g) additional helpful websites.

I encourage you to investigate this website and pursue activities that would lower your energy costs and save energy.

## Plan Review Fees

On June 30, 2014, I sent a letter to water systems advising them of our proposal to assess plan review fees for projects submitted to the Division for review and approval. In the letter I invited written comments and advised that there was going to be a public hearing which was actually held on September 25, 2014. This fee schedule was submitted to the Governor's Office of Planning and Budget for review. They did not approve any of the proposed plan review fees with the following exception. The penalty fee for construction without prior plan approval of \$1,000 remains in the Governor's budget. The Department of Environmental Quality's budget which includes this provision will be presented to the Legislature during this Legislative session which commences on January 26, 2015, and concludes on March 12, 2015. During this session the Department's Legislative Appropriations Committee will review the Department's fee schedule. If approved by the Appropriations Committee and ultimately approved by both houses of the legislature it will become effective on July 1, 2015. Because the legislature has yet to meet and consider fee changes I cannot report on the outcome. Stay tuned for more information after the Legislative session.

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# Project Description: Assign Sanitary Surveys on a Geographic and Ownership Basis

Goals: Reduce travel time and cost to the Division to perform Sanitary Surveys



By Dave Hansen

Quantify Improvements Resulting from the Project: The Division reduced the number of sanitary survey trips and made the remaining trips more productive.

Project Abstract:

Utah ranks 13<sup>th</sup> in size amongst the 50 states, measuring 275 miles east to west and 345 miles north to south. Further, the State has mountain ranges to cross making some direct route trips impossible. Consequently, if sanitary surveys are bundled together geographically to enable multiple surveys to be performed in a single trip, the Division can reduce the number of trips and save travel time, with it asso-

ciated cost savings. Utah has 1021 water systems 66 Non-transient Non Community, 468 Community, and 487 Transient Non-Community systems. The Division used three guiding principles in establishing the individual bundles: 1) group water systems based on location, 2) within common location, group water systems by common owner, if such ownership existed such as Forest Service campgrounds, and 3) limit the size of the bundle to ensure that the entire task, including travel and performance of the survey could be accomplished in a week's period of time or less.

The Division started with the water system's source locations in SDWIS to establish the initial common site locations. This was refined by input from: Local Health Departments, District Engineers and State staff. It was then further refined by looking at common ownership situations. Then the established bundled water systems were further subdivided to ensure that all systems within a specified bundle could be surveyed in a week's period of time. With the bundles established the Division is now progressing through a transition period. This involves transitioning each water system within a bundle into a common survey frequency of every three years. We avoided surveying a given water system two years in a row. We shortened the time period between surveys for some systems from every three years to a repeat survey in two years, and lengthened the time period of other systems from every three years to repeat survey in four years.

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# Reduced Hydraulic Modeling Submittal Requirements

By Bernie Clark and Ying-Ying Macauley

Public Water Systems and consultants may find it useful to know that some drinking water projects do not require hydraulic modeling and others have reduced hydraulic modeling submittal requirements.

A hydraulic analysis is commonly used to evaluate whether a proposed project will have a negative hydraulic effect on current or new customers. For new drinking water projects that may affect the flow and pressure of the water system, a Public Water System typically is required to conduct a hydraulic analysis, submit certification by a Professional Engineer of hydraulic modeling results, and submit a hydraulic modeling report to the Director of the Division of Drinking Water. Utah Administrative Code Section R309-511-4, however, establishes criteria for certain drinking water projects that have reduced or no hydraulic modeling submittal requirements.

## **Drinking Water Projects That Do Not Require Modeling, Certification, or Reports**

Drinking water projects that do not have a negative hydraulic impact also do not require hydraulic modeling. Therefore, Public Water Systems are not required to submit certification of modeling results or hydraulic modeling reports to the Director as part of the plan approval process. The following are examples of such projects:

1. Addition of new water sources, such as wells or springs
2. Addition of disinfection, fluoridation, or other treatment facilities that will have no adverse effect on flow, pressure, or water quality
3. Repair or recoating of water storage tanks
4. Addition of water mains without adding service connections, such as looping existing dead-end water lines
5. Addition of transmission lines to water storage tanks or water sources without adding service connections
6. Addition of pump stations from water storage tanks or water sources that are upstream of service connections
7. Projects that will have a negligible hydraulic affect as determined by the Director

## **Drinking Water Projects That Do Not Require Hydraulic Modeling Reports**

Drinking water projects that meet either of the following criteria do not require Public Water Systems to submit hydraulic modeling reports during the plan review process:

1. Distribution system projects have been included in a master plan supported by a hydraulic analysis and previously approved by the Director
2. Projects undertaken by a Public Water System that has notified the Director in writing that it maintains and updates a hydraulic model of the system and has identified a designated Professional Engineer responsible for overseeing the hydraulic analysis of the system

These drinking water projects still require Public Water Systems to use hydraulic analyses to evaluate the hydraulic effects of the projects and submit certification of hydraulic modeling results by a Professional Engineer during the plan review process.

If you have questions about whether or not a proposed drinking water project requires the submittal of certification of hydraulic modeling results or a hydraulic modeling report, call Ying-Ying Macauley, Drinking Water Engineering Section Manager, at (801) 536-4188.

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# How to Get a Plan Submittal Waiver & Expedite the Plan Review Process

By Bernie Clark and Ying-Ying Macauley

Public Water Systems (PWSs) can significantly shorten the required plan review process by getting a plan submittal waiver from the Division of Drinking Water for distribution system projects.

Public Water Systems are required by Utah Administrative Code Section R309-105-6 to submit plans and specifications to the Division and obtain plan approval prior to construction of drinking water projects. There are, however, certain circumstances when a PWS may obtain a plan submittal waiver for a distribution system project instead of submitting detailed engineering plans and specifications for review.

Plan submittal waivers for distribution system projects that do not include booster pump stations may be granted by the Director of the Division of Drinking Water provided that the PWS has completed the steps to become eligible for waivers. Utah Administrative Code R309-500-6(3) offers two ways for PWSs to become eligible for waivers.

## To Become Eligible for Plan Submittal Waivers

- **R309-500-6(3)(a)**

To become eligible for a plan submittal waiver per R309-500-6(3)(a), a PWS must submit the following for review and approval:

1. The PWS's standard installation drawings (specifically for the distribution system); and
2. A Master Plan that is supported by a hydraulic analysis, certified by a Professional Engineer, and addresses present and future water demands.



The Director then issues an approval letter, which also confirms the PWS's eligibility for plan submittal waivers per R309-500-6(3)(a). The PWS's future distribution system projects (excluding booster pump stations) may qualify for a waiver if the proposed water lines have been included in the approved Master Plan and will be constructed per the approved standard installation drawings.

- **R309-500-6(3)(b)**

To become eligible for a plan submittal waiver authorized by Paragraph R309-500-6(3)(b), a PWS must do the following:

1. Submit the PWS's standard installation drawings to the Director for review and obtain the Director's approval of the drawings; and
2. Identify the designated Professional Engineer that is directly responsible for the entire PWS design in a letter to the Director.

The Director then issues an approval letter, which also confirms the PWS's eligibility for plan submittal waivers per R309-500-6(3)(b). The PWS's future distribution system projects (excluding booster pump stations) may qualify for a waiver if the pro-

posed water lines will be constructed per the approved standard installation drawings, and if the waterline is within the size limits of Rule R309-500-6(3)(b) based on the type of water usage and population served by the PWS:

- i. The PWS provides water for residential use only to fewer than 3,300 persons, the proposed water lines will be less than or equal to 4" in diameter, and no fire hydrants will be installed.
- ii. The PWS provides water for mixed use (agricultural, commercial, industrial, or residential) to fewer than 3,300 persons, the proposed water lines will be less than or equal to 8" in diameter, and fire hydrants will be installed.
- iii. The PWS provides water for mixed use to between 3,300 and 50,000 persons, the water lines will be less than or equal to 12" in diameter, and fire hydrants will be installed.
- iv. The PWS provides water for mixed use to more than 50,000 persons, the water lines will be less than or equal to 16" in diameter, and fire hydrants will be installed.

### **Steps for Obtaining Waivers for Distribution System Projects**

Once a PWS has become eligible for plan submittal waivers per R309-500-6(3)(a) or (b), it should take the following steps each time that it requests a waiver for a distribution system project (excluding booster pump stations):

1. Submit a Project Notification Form (PNF) describing the project.
2. Identify on the PNF which waiver, R309-500-6(3)(a) or (b), is being requested.
3. If the water line project will have a hydraulic impact on the system, submit a Professional Engineer's certification of hydraulic analyses of the project with the PNF.
4. Submit a certification by a professional engineer, responsible for the design and construction of the project or designated by the water system in writing as the professional engineer responsible for the design of the entire water system, indicating that design and construction will meet the requirements of R309-500 through 550, proper flushing and disinfection will be completed according to ANSI/AWWA standards, satisfactory bacteriological sample results will be obtained prior to placing the facilities into service, and the water system will receive a copy of as-built or record drawings. Operating Permits will no longer be required for projects that obtain a Plan Submittal Waiver.
5. Obtain the "Plan Submittal Waiver" for the project from the Division prior to construction.

Submit documentation requesting eligibility for plan submittal waivers or waiver requests for specific distribution system projects to the Director, Utah Division of Drinking Water, P.O. Box 144830, Salt Lake City, UT 84114-4830. If you have questions about or are interested in becoming eligible for plan submittal waivers, call Ying-Ying Macauley, DDW Engineering Section Manager, at (801) 536-4188 or Bernie Clark, DDW, at (801) 536-0092.

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## **Requesting an Exception to UAC Rules R-309-500 through R309-550**

By Bernie Clark and Ying-Ying Macauley

If a Public Water System is unable to meet the design or construction requirements of a particular drinking water rule but can use an alternative means or design that protects public health to an equal degree, it may be eligible for an exception to the rule. An exception may also be used to resolve Improvement Priority System (IPS) deficiency points that the Division of Drinking Water has assigned to a Public Water System because of physical deficiencies.

In certain circumstances, a Public Water System may find that it is physically or economically impractical to comply with a particular construction, design, or operation requirement in Utah Administrative Code Rules R309-500 through R309-550. If the Public Water System can demonstrate that public health will not be jeopardized by its inability to meet the requirement, the Director of the Division of Drinking Water may grant an exception to the rule.

Paragraph (2)(b) of Utah Administrative Code Section R309-105-6, *Construction of Public Drinking Water Facilities*, gives the Director of the Division of Drinking Water the authority to grant exceptions to the requirements of R309-500 through R309-550 and describes the procedure that a Public Water System must follow when requesting an exception. To request an exception, a Public Water System must include the following information:

1. Submit a written request, preferably on water system letterhead, from the management of the Public Water System to the Director of the Division of Drinking Water
2. Cite the specific rule to which the exception is being requested
3. Provide a detailed explanation of why the requirements of the rule cannot be met (include drawings if appropriate)
4. Describe what will be done to meet the intent of the rule in place of meeting the requirements of the rule (include drawings if appropriate)
5. Provide an alternative to the rule requirements and justification of how it will meet or exceed the public health requirements of the rule that cannot be met

Submit the written exception request to the Director, Utah Division of Drinking Water, P.O. Box 144830, Salt Lake City, UT 84114-4830. If you have questions about requesting an exception to UAC Rules R309-500 through R309-550, call the Utah Division of Drinking Water at (801) 536-4200 and ask to speak to a plan review engineer.



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## Round 2 of the LT2 ESWTR Source Water *Cryptosporidium*/E.coli Sampling Requirements

By Mark Hansen – Surface Water Treatment Rule Manager

For systems who use surface water or systems with ground water sources under the direct influence of surface water (UDI) the requirements of the Long Term 2 Enhanced Surface Water Treatment Rule (LT2) for round 2 of the source beginning samples began January 1, 2015.

Filtered systems that provide and maintain at least a 5.5 log of treatment for *Cryptosporidium* or plan to install this level of treatment are not required to conduct source water monitoring. The Schedule 1 systems are those serving a population of 100,000 or more people or wholesale systems that are part of a combined distribution system in which the largest system serves 100,000 or more population. These systems were required to submit a Sample Plan by January 1, 2015. The requirements for the Sampling Plan include the following:

1. Select an EPA Accredited lab for *Cryptosporidium* Analysis in Drinking Waters.
2. Submit an official letterhead of the lab you selected – a one-page summary of the dates when the samples will be collected.
3. Submit a schematic indicating the chemical feed application points along with an arrow indicating the exact sample location. A FPPE report schematic with a hand-drawn arrow is acceptable.
4. Submit a completed *Cryptosporidium* Sampling Location Worksheet

5. Must include a signature of the responsible official for the water system acknowledging that water system staff would notify the Division of Drinking Water immediately upon discovery of any issues related to timely *Cryptosporidium* sample collection or accurate lab analysis of samples.

Note: EPA does **NOT** allow a system to use previously grandfathered data for Round 2, as was the case for Round 1.

The requirements for Schedule 1-3 systems for Round 2 also include sampling for *Cryptosporidium*, *E.coli* and turbidity on a monthly basis for 24 months according to the Sample Plan with only a 2 day allowance, before or after the schedule date. The monitoring for *Cryptosporidium* for Schedule 1 systems must begin in April of this year. Schedule 2 systems (pop. 50,000 – 99,999) must submit their Sample Site Plan by July 1, and begin sampling in October of this year. Schedule 3 systems (pop.10,000 – 49,999) must submit their Sample Site Plan by July 1, 2016, and begin sampling in October of 2016.



Schedule 4 systems (pop. less than 10,000) can sample for *E.coli* in lieu of *Cryptosporidium* monitoring. Their Sample Plan must be submitted by July 1 of 2017, and sampling must begin in October of 2017. These systems are required to sample for *E.coli* on a bi-weekly basis for 12 months.

The data turnaround requirement is:

Under the LT2 Rule, PWSs are required to submit data no later than 10 days after the end of the first month following the month when the sample is collected (this is approximately 40 to 70 days after sample collection, depending on when during the month the sample is collected ) [40 CFR § 141.706(a)]. For example, if a sample is collected on March 17, data must be submitted no later than May 10.

After the collection of the *Cryptosporidium* and *E.coli* data, water systems must calculate an average *Cryptosporidium* and or *E.coli* concentration, and use those results to determine if their source is vulnerable to contamination and may require additional treatment, depending on the results of the monitoring. The results will then determine which Bin, (Bins1-4) that systems falls in and will determine if additional treatment is required. For more Information regarding these requirements please refer to the following websites: <http://water.epa.gov/lawsregs/rulesregs/sdwa/lt2/index.cfm>

Also feel free to contact me regarding questions at **801-536-4205** or e-mail at: [mehansen@utah.gov](mailto:mehansen@utah.gov)

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## Lead and Copper Updates

By JJ Trussell

The Division of Drinking Water is now tracking public notification for the lead and copper rule. When a water system samples for lead and copper they are required to notify the individuals that use those sample taps of the lead and copper results. Notification templates are available on our website. Systems can find an online certification form there as well, or print a physical copy. This serves as an official notification to our office that the public notice has been delivered.

Rule Updates:

Reduction of Lead in Drinking Water Act (2011): Changed the definition of “lead-free” in SDWA from 8% of weighted material to .25% of wetted surface material

- Primarily affects Brass and Bronze
- Water meters are especially a concern
- Effective January 4, 2014
- Applies to back inventory of uninstalled materials
- Applies to suppliers: cannot introduce into commerce any materials that do not meet new standard.
- NSF/ANSI Standard 372: Same method of determining “lead-free”
- Exceptions: Non-potable water services, industrial processing, bathroom fixtures such as shower, tub, and toilet valves may contain any amount of lead.

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## 2015 Division Workgroups

By Patti Fauver

The Division is in the process of forming 3 workgroups to discuss the following drinking water issues: Clarifications to the Public Water System Definition, Downstream or Secondary Treatment of drinking water and Water Contamination Events. The groups will be completed in February and meetings will begin in March with an expected completion by December 2015. Below is a discussion of the goals and objectives of each of the groups.

Public Water System Definition Clarification – the purpose of this workgroup is to evaluate whether current interpretations of the adopted public water system definition leaves gaps in public health protection and to ensure interpretations are applied consistently over time.



**Objective:** review the Utah adopted public water system definition and provide clarification on:

- Establish methods of calculating population served;
- Establish period of operation;
- Establish evaluation criteria to designate which treatment processes impact the safety of the water supply;
- Establish evaluation criteria to evaluate master meter connection to determine if a consecutive public water system status is merited.
- Revisions and protocols established must be as stringent as the federal definition and will be subject to official EPA review and approval.
- Identify gaps in public health protection
  - List gap
  - Establish if situation is covered by SDWA definition

Downstream or Secondary Treatment - the purpose of this workgroup is to identify where water system treatment (such as disinfection) is installed downstream of the water meter and to establish plan review, operational, monitoring and reporting requirements for those entities which are classified as public water systems.

**Objective:** review the current protocols and procedures and recommend updates as follows:

- Identify the Regulatory Agencies Involved:
  - Issue boil orders
  - Lift boil orders
- Identify jurisdictional boundaries
- Identify existing guidance and recommended practice:
  - NSF – HACPP
  - ASHRAE
  - VA Guidelines



- Establish common reporting templates
- Establish quick response remediation guidance and tools

Water Contamination Events - the purpose of this workgroup is to develop check lists and tools where appropriate to assist Division staff, local health department staff and water system personnel in responding to water contamination events.

**Objective:** review the current protocols and procedures and recommend updates as follows:

- Establish common protocols and procedures to:
  - Issue boil orders
  - Lift boil orders
- Establish common templates for:
  - Boil/No use orders
  - Frequently asked questions
  - Public health consequences
  - Explore social media use and recommended practice
    - Note: Social media is not acceptable methodology for PN compliance
- Establish quick response remediation guidance and tools

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## What is a Non-Public Water System and Who Regulates These Small Water Systems?

By John Chartier, P.E., DEQ District Engineer, Central Utah District

As a District Engineer working for the Utah Department of Environmental Quality, I have the opportunity to work closely with the Utah Division of Drinking Water (Division). The Division works with and regulates all of the Public Drinking Water Systems in the state. The Division defines a Public Water System as, *“a system, either publicly or privately owned, providing water through constructed conveyances for human consumption and other domestic uses, which has at least 15 service connections **OR** serves an average of at least 25 individuals daily at least 60 days out of the year.”*

Now that we know what a Public Water System is, then it must be safe to assume that any other water system that falls below this defined minimum threshold must be a Non-Public Water System. So the way I see it, any water system serving 1 to 14 connections or 24 or fewer individuals will fall into the Non-Public category. Does that mean that as a state agency we shouldn't care about the quality of their drinking water because they serve a smaller population? Can we ignore the health and safety of the individuals that live in remote areas of our state and share a common water source among just a few neighbors? I would say no to these questions, yet we still have a portion of our state that has no minimum design standards or guidelines for these small Non-Public Water Systems.

Since these small Non-Public Water Systems fall below the definition of a Public Water System, then it is up to the individual counties or Public Health Departments of Utah to regulate these systems. The State of Utah currently has 12 separate Public Health Departments. Of those 12 health departments, only 7 of them have written guidelines or rules for Non-Public Water Systems. So that leaves a good portion of our state without guidance or minimum design and construction standards for Non-Public Water Systems.

In those areas of the state without these minimum design and construction standards, we often see inadequate and poorly constructed water systems. Some examples of the problems are constructing shallow water wells without the minimum 100-foot grout seal; septic tanks or leach fields located within a water well's source protection zone; water pipes that are not approved for drinking water, too small to provide fire flow, or buried too shallow; sharing a well without a proper agreement to protect the wa-

ter users; etc. These problems typically don't surface until several years after the small system has been put in place and the developer or original property owner has moved on. That means the problem is left to the unsuspecting homeowners currently using the system, or those homeowners trying to sell or buy a home connected to the small Non-Public Water System.

Often the cost of fixing the Non-Public Water System falls to the few homeowners using the system. If the original developer of the Non-Public Water System failed to have an operating agreement between the users or to create a management body such as a homeowners association, then collecting money from each user can prove to be a difficult task.



Other times the homeowners find themselves being part of a water system that started out as a Non-Public System, but learn they have now grown to 15 connections or serve more than 25 people. When that is the case, these homeowners are now regulated as a Public Drinking Water System and must improve the system to meet minimum Public Drinking Water Rules.

This latter case is one that often times ends up costing everyone in the State of Utah to bring the former Non-Public Water System into compliance with Public Drinking Water Rules. The way it can cost us all is through the low interest loans and grant funds that are needed to subsidize the improvement projects these smaller systems end up constructing to meet minimum Public Drinking Water Rules.

It seems like every year the State of Utah Drinking Water Board and the Permanent Community Impact Board (CIB) of Utah will fund water system improvements for a formerly Non-Public Water System. Projects I have personally been involved with as a District Engineer have ranged from a project receiving 80% grant for a \$1,000,000 project, up to a multi-million dollar project receiving a combination of grant and 0% interest loan. These were small Non-Public Water Systems starting out in areas that had no minimum design and construction standards for systems falling below the regulated threshold for Public Drinking Water Systems.

In an effort to prevent financial hardships for future customers of small Non-Public Water Systems and to prevent the need for large, heavily subsidized, water projects for Non-Public Water Systems as they become Public Water Systems, a Non-Public Water System Rule should be put in place for every County and/or Public Health Department in the State of Utah.

A good example of a Non-Public Water System Rule as implemented by a Public Health Department is the Non-Public Rule in the TriCounty Health Department located in Northeastern Utah (Daggett, Duchesne, and Uintah Counties). The direct link to the rule on their website is <http://www.tricountyhealth.com/Non%20public%20dw%20rule%20final.pdf>.

The TriCounty Health Department's Non-Public Water System Rule regulates everything from a single, private individual well up to a system serving 7 connections that share a water source. It is assumed that any development with 8 or more connections will exceed 25 people, and thus will be regulated as a Public Water System.

The TriCounty Non-Public Water System Rule has minimum design and construction standards for new water sources and the rule has a list of water quality parameters that must be sampled from the new source. All new sources will be required to have source protection buffer areas owned by the well/water system owner or land use agreements for buffer areas that fall outside of the well/water system ownership.

Depending upon the size and complexity of the proposed Non-Public Water System, other facilities such as storage tanks and distribution systems will have minimum design and construction standards also.

Under the TriCounty Non-Public Water System Rule, individuals wishing to create a Non-Public Water System with one, two or three connections can submit the proposed plans, water quality samples and other supporting documentation on their own. Any individual creating a Non-Public water system with four – seven connections will be required to have a licensed Professional Engineer prepare and certify the design.

Requiring these minimum design standards for Non-Public Water Systems can be a significant benefit to the residents of Utah. Not only will it ensure better quality water to protect the health of individuals, it will save the public from having to subsidize water system improvements as a result of inadequate or poor water system design done without regulation.

Any entity or individual that sells water or bills other parties for providing water is subject to the rules and requirements of the Public Service Commission (PSC). Utah counties and health departments should work closely with the PSC when Non-Public Water Systems are proposed within their jurisdiction. The PSC can help regulate the small Non-Public Water Systems by issuing one of two different designations, a Certificate of Public Convenience and Necessity (CPCN) or a Letter of Exemption (LOE). Either of which will prompt a review by the Division of Public Utilities. The Division of Public Utilities review will cover whether or not the system has been approved by the applicable regulating agency, if water rights are in order, if financial statements are adequate for the proposed water system and if there is a governing body or agency created to own and operate the water system.

Additional information, including a draft copy of a Non-Public Water System Rule for the Central Utah Public Health Department, is available by contacting John Chartier, Central District Engineer, at [jchartier@utah.gov](mailto:jchartier@utah.gov).

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## New Way to Locate Division Records!

By Kate Johnson

Have you ever wished you could review or easily recover your system's records? Now you can! Visit our new "Easy Records Search" site at:

<http://eqedocs.utah.gov/>



Once you are there (and have reviewed and closed the Disclaimer), select "DDW" from the drop down list at the top, and browse to your system. Any record that is in our document management system, and is classified as "Public," can be found there. Refine the list by selecting any program you are interested in, such as "Correspondence." If you don't see what you are looking for, contact Melissa Copfer at 801-536-4224 or at [mcopfer@utah.gov](mailto:mcopfer@utah.gov); it's possible your documents aren't completely classified yet, or they may be classified as "Protected" if they contain sensitive information such as the location of a drinking water source.

We're excited to offer this new tool to you, and hope you find it helpful. Please contact Melissa if you have comments or suggestions.

# New View of DDW Online Reports

By Rachael Cassady

The Division of Drinking Water (DDW) is excited to announce that we have a new reporting application called WaterLink. Your IPS report, monitoring schedule, bacteria summary and inventory are now part of WaterLink. When you access your monitoring schedule, IPS report, bacteria summary and inventory reports online you will notice they look different.

WaterLink will eventually combine all of our reporting to include information about your source protection plans, engineering reviews and projects, construction assistance, operator certification and backflow certification. It is written in Java and is web based. In the future we plan to make your online reports easily downloadable to an excel format to help you track your system information.

To access your online reports go to [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov). From there click on the Online Reports link at the top, seen below in red:



The screenshot shows the Utah Department of Environmental Quality website. At the top is a banner with the text "Utah Department of Environmental Quality" and "Safeguarding Human Health & Quality of Life by Protecting & Enhancing the Environment". Below the banner is a navigation menu with links: "DEQ Home", "A-Z Index", "Calendar", "Contacts", "Divisions", "EZ Records Search", "Interactive Map", "Search DEQ", and "Site Map". The main content area is titled "Utah Division of Drinking Water" and shows the page URL "drinkingwater.utah.gov". A navigation menu below the title includes links for "Backflow Technicians", "Certified Operators", "Consultants", "Consumers", "Online Reports", "Shopping Cart", and "Water Suppliers". The "Online Reports" link is highlighted with a red box. Below this menu is a "News and Announcements" section with a red text notice: "DEQ is in the process of reorganizing its Web site. This work has been completed for DDW. Though we have done our best to prevent broken". On the right side of the page is a portrait of Kenneth H. Bousfield, P.E., Director.

This will take you to a login screen. If you have already established an account for the online reports just enter your ID and password. If you have not yet done that just follow the prompt for new users. This will take you to the screen seen below. The link outlined in red is where you can now access WaterLink to see your monitoring schedule, IPS report, inventory, and bacteria summary.



[| DEQ Home](#) | [A-Z Index](#) | [Calendar](#) | [Contacts](#) | [Divisions](#) | [EZ Records Search](#) | [Interactive Map](#) | [Search I](#)

## Public Water System Reports

[Other Water System reports](#)

### Find PWS Reports

Search any value

List All Water Systems

[Advanced Search](#)

### LHD Positive Sample Report

All Local Health Departments

Get LHD Report

Now you just need to type in your water system name or number into the Search box and click the report to the right that you want to view.

Utah Department of Environmental Quality  
DIVISION OF DRINKING WATER

REPORTING

**SEARCH BY COUNTY/WATER SYSTEM**  
County/Water System

**CREATE A CUSTOM REPORT**  
Custom Report Selection

**WATER SYSTEM REPORTS**  
[Bacterial Summary](#) [Inventory](#) [IPS](#) [Water Monitoring](#)  
[System Summary](#)

DEQ | Drinking Water

**Public Water System Inventory Report**

Click inside the Create a Custom Report box to create a report that includes information from all of the four main reports available. For best printing options please select the landscape options on your printer. Please take the time to check your online reports often, and send us your feedback and ideas at [ddwreports@utah.gov](mailto:ddwreports@utah.gov), so we can make adjustments to WaterLink that will suit your needs.

# A new cycle of updating source protection plans has started:

By Kate Johnson

It's been a while since you've last updated your source protection plans, hasn't it? Do you know whether any new potential contamination sources have moved into the neighborhood of your well/spring/intake? Has your county or city implemented a new source protection ordinance? Do you have new ideas about how to ensure your source remains free of accidental contamination? Might be time to think about writing it all down and sending us a copy....

Here's the schedule of upcoming due dates for updated plans:

Population served by system	Wells	Springs	Surface water
>10,000	December 2020*		December 2019**
3,300-10,000	December 2015	—	December 2020*
<3,300	December 2016		December 2015
Springs		December 2017	

Previous: \*December 2014    \*\*December 2013

Remember that RWAU has staff dedicated to assisting systems with completing updates. Call them at 801-756-5123 for more information. Division personnel are available too, you can reach us at 801-536-4200 and ask for Kate Johnson, Mark Jensen or Jim Martin. Visit <http://1.usa.gov/1ubqBWE> for templates and other resources!

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# Twenty Years of the Utah Water Quality Alliance

By Eva Nieminski, Ph.D.



In 1994, the five largest water utilities in Utah, along with the Utah Division of Drinking Water and the Utah Public Health Laboratory, formed an alliance - Utah Water Quality Alliance (Alliance) to assist with water quality optimization projects, with updates in new regulations, and in efforts to produce the best quality water. Regional Alliances were formed in 1997-1998 for small and medium size systems in three regions of Utah. Thus, for 20 years now, most of the surface water treatment plants in Utah are engaged in water quality enhancement programs and work together on optimizing their plant performance.

The Alliance's objective is a shared commitment to the continuous enhancement of drinking water quality delivered to the community. The common goals are to work together to find ways to improve the quality of both source water and treated water, to optimize water treatment processes and enhance treatment plant performance in removing contaminants, monitoring water quality, evaluating new technologies, participating in drinking water research, providing input in federal and state regulations, and assisting smaller water utilities to produce drinking water of the best quality for the citizens of Utah.

The members of the Alliance have become increasingly familiar with all the treatment facilities within the Alliance by reviewing the results and data presented at meetings and visits to each plant. Several teams have accomplished many of the more complex tasks, studies, and data gathering. Such teams were formed to conduct treatment evaluations, tracer studies, particle counting, jar testing, evaluation of biological stability, special sample collection, data analyses, and regulatory reviews. The range of topics studied by these groups is much wider than could be accomplished by a single utility. Members of the Alliance contribute their time and expertise and provide financing for approximately one-half of the water quality monitoring effort. The Utah Division of Drinking Water supports the water quality monitoring as a tool required for plant evaluation and optimization and sponsors the other half of the analytical costs. The Utah Public Health Lab provides all analytical tests and capability to process samples. The Alliance members recognize the importance of the exchange of the technical information and acknowledge the significance of highly trained operational personnel in the continued enhancement of plant operations. The Division of Drinking Water awards the continued education units to plant operators in the Alliance for active participation in the program.

The effort invested in the program and the success of the program could be used as an example of the utilities engaged with the state agency in a proactive approach to public health protection.

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# Improvement Priority System (IPS) Rule Updates

By John Oakeson

## What is the IPS Rule?

The rule reference for the IPS Rule is R309-400. The rule is available for review at <http://www.drinkingwater.utah.gov>. The IPS rule is a measurement tool the Division of Drinking Water uses to provide a concise indication of a drinking water system's condition & performance. The rule applies to all public drinking water systems. The IPS rule utilizes a point system to evaluate a public drinking water system's compliance to the Utah Public Drinking Water Rules. The number of IPS points assessed is based on the threat to the water quality and public health; e.g. Unapproved source = 200 points, confirmed *Escherichia coli* contamination = 50 points, missing a smooth-nosed sampling tap on well discharge piping = 1 point.

## How do IPS points affect my system?

The number of IPS points affects the approval status of your system. In order to retain an approved rating a Public Water System must have LESS THAN the assigned threshold points; non-community systems 100 points, non-transient non-community systems 120 points, community systems 150 points. Once a system exceeds their respective threshold, they will be assigned a **not approved** rating. The majority of the enforcement actions taken by the Division of Drinking Water are based on the number of total IPS points a system has. Systems may be rated as; **Approved** -PWS is operating in substantial compliance with drinking water rules as measured by IPS, **Not Approved** - PWS does not fully comply with the rules as measured by IPS, or **Corrective Action** - provisional rating for a PWS that is not in compliance with the rules but is working on coming into compliance.

## How are IPS points added to and/or deleted from the IPS report?

IPS points are added for deficiencies or violations in the following areas:

Water Quality, Monitoring, Public notification, Physical deficiencies, Operator certification, Source protection, Cross connection control, Administrative Issues, and Reporting and record maintenance issues. Points are deleted from your IPS score after physical deficiencies have been corrected and DDW has been notified of the corrections, some type of physical documentation is required. Monitoring violations are resolved once source sample analyses have been received by DDW. TCR violations remain on the IPS report for 12 months or 4 consecutive quarters as applicable. Administrative points are resolved once the administrative action has been adequately addressed unless otherwise specified.

## Why was the IPS rule updated?

There are several reasons why the IPS rule was updated. When new rules are adopted, such as the Groundwater Rule in December 2009, or existing rules are updated, the IPS rule must be updated to reflect the appropriate changes associated with that rule. The Division conducts a 5 year review of all of our rules. That review includes a "clean-up" of the rule; minor corrections, such as grammar, spelling, wording to clarify the meaning, etc.

## Are there any significant changes in the updated IPS Rule?

Points have been added to accommodate the Groundwater rule as follows: 40 IPS points will be assessed for failure to collect triggered source samples, 5 IPS points will be assessed for failure to collect assessment source samples where applicable, 35 points will be assessed for failure to correct a significant deficiency, 40 points will be assessed for an *Escherichia coli* violation. 2 IPS points will be assessed for failure to perform public notice for any of the above violations.

50 IPS points will be assessed for each routine chemical monitoring violation for nitrate. 5 IPS points will be assessed for failure to perform the associated public notice. 60 IPS points will be assessed for each MCL exceedance of nitrate. 10 IPS points will be assessed for failure to perform the associated public notice.



A groundwater system that has a 4-log exemption from triggered source monitoring, serving greater than 3300 population, and lacking equipment to continuously measure chlorine residuals entering the distribution system shall be assessed 20 IPS points. Groundwater systems serving greater than 3300 population that fail to continuously monitor residual disinfectant levels shall be assessed 10 IPS points. Groundwater systems serving less than 3300 population failing to collect a daily grab sample during peak demand to monitor the residual disinfectant concentrations will be assessed 10 IPS points.

A system that fails to notify its customers of their lead and copper results will be assessed 5 IPS points. A system that fails to send the lead and copper certification to the Division will be assessed 5 IPS points.

There were a number of minor changes to the treatment sections of the rule. Points were added to address Chlorine Dioxide and Ultraviolet disinfection treatment processes. For each failure to submit the monthly treatment plant report, the system will be assessed 100 IPS points. For each failure to submit the quarterly disinfection report, the system will be assessed 50 IPS points.

A water system found to be using an unapproved source will be assessed 200 IPS points. Failure to obtain proper plan approval before beginning a water construction project may be assessed up to 200 IPS points. Points assessed for Administrative Issues will range between 25 and 200 IPS points based on the severity of the non-compliance or the threat to public health. Falsification of data will result in 25-200 IPS points based on the severity of the issue.

The Drinking Water Board Adopted the Updated IPS report on November 10, 2014. If you have questions concerning the R309-400 please feel free to contact John Oakeson, IPS Rule Manager at 801-536-0057 or email at [joakeson@utah.gov](mailto:joakeson@utah.gov).

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## Helping Operators Pass the Certification Exam



By Kim Dyches

The Utah Water Operator certification program is dedicated in helping you succeed in passing the certification exam. Over the years there have being a multitude of changes to help operators accomplish that. When I was hired on in the mid 1980's I was given an ABC Study Guide and a stack of books to study. I was told that if I read all the books I could pass the exam. Needless to say I didn't want be finishing all those books around the time I retired just to take the exam. Much of the information in the books wouldn't be understandable to a novice operator just entering the profession. You need to get some hands-on experience of physically running a water system to come to the understanding of what certain terminology means. On top of that, you need to learn the inner workings of the specific water system you work for.

When I was hired to my position with the Division of Drinking as the Executive Secretary to the Operator Certification Commission, one of the other challenges I fell into was implementing mandatory certification guidelines handed down from EPA in 1999. The rule had to be in effect by the year 2001. Here is what the certification rules state:

R309-300-4

"Direct Responsible Charge" means active on-site charge and performance of operation duties. A person in direct responsible charge is generally an operator of a water treatment plant or distribution system who independently makes decisions during normal operation which can affect the sanitary quality, safety, and adequacy of water delivered to customers. In cases where only one operator is employed by the system, this operator shall be considered to be in direct responsible charge.

R309-300.5-10

If the Distribution Manager, Treatment Plant Manager, or Direct Responsible Charge Operator is changed or leaves a particular water system, the water system management must notify the Secretary to the Operator Certification Commission within ten days by contacting the Division of Drinking Water in writing. Within one year, the person replacing the Distribution Manager, Treatment Plant Manager or Director Responsible Charge Operator must have passed an examination of the appropriate grade and discipline. Direct responsible charge experience may be gained later, together with unrestricted certification as experience is gained.

The rules clearly state the requirements that water systems need to have a certified operator and if that Manager/Operator leaves, you have one year to obtain a new one. At the time we had many small system operators serving populations of 800 or less that now needed to be certified. I was fortunate to already have some study guides that my predecessor had developed to build upon for resources to help these operators prepare themselves to take the test. Those proved to be very helpful in building some study helps that operators could use to improve their chances of passing the certification exams. So the dilemma was trying to get operators that had run their water systems for years certified. Many of those operators hadn't been to school for years and didn't see the need to get certified.



From the study guides that were handed down to me, I developed some presentations on the six areas that the exams test on. The subjects that operators are required to know are Math, Pumps, Operation/Maintenance, Chemical Feed, Rules, and Safety/Security. The use of these presentations in many exams has helped to increase the pass rates among new operators wanting to enter the field of being a water operator. Generally my experience with the pass rates has been the operator just didn't study the amount of time needed to let the concepts sink in. You can study and listen to the presentations, but it is more a matter of actually understanding what the principles are about and the particular concept that is being taught. Once you grasp that understanding, you can walk into any of the exams with confidence. As operators study the exams, they need to ask themselves, "how does this question apply to my job and why is it important to know it." It should be noted that the exams only establish the basic skills and competency need to perform your duties as a certified operator. The rest of your competency comes from continuing education and learning the day to day operation of your water system or treatment plant.

Most of the operators that come into my office to review their exam will say they just read more into a question rather than needed, they should have gone with their first impression or they just needed to study more. This says a lot about the operators in Utah who will place the emphasis on themselves rather than blaming the exam itself, saying it's too hard. If anyone reading this is struggling to pass the exam, my door is always open and I will tutor anyone that needs help.

Recently I have developed screen casts of my presentations that I use to prepare operators to take the exam. If you are already certified needing CEU's, you can watch them and take the quiz at the end for training hours. You can find them at this link under Field Services and Rules Update:

<http://www.deq.utah.gov/Certification/training/drinkingwater/training.htm>

Here are some other links that will help you prepare to take the exam:

<http://www.deq.utah.gov/Certification/certification/drinkingwater/certsysoperator.htm>

<http://www.deq.utah.gov/Divisions/ddw/info/fieldservices.htm>

If you will use the information contained in these links, your chances of passing the exam will greatly increase and will give you confidence when you sit for your next exam.

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# Division of Drinking Water

## Water Operator Certification 2015 Exam Schedule

ATTENTION ALL WATER SYSTEM OPERATORS AND MANAGERS, AND ANYONE SEEKING EMPLOYMENT IN THE WATER INDUSTRY. Utah's Department of Environmental Quality, Division of Drinking Water (DDW), is offering operator certification written exams for water distribution and treatment systems. All grade levels, including small systems, will be offered:



**April 9, 2015**, at 16 Utah exam sites (see exam application for list of cities).  
Exam application deadline: March 19, 2015.

**November 12, 2015**, at 16 Utah exam sites (see exam application for list of cities). Exam application deadline: October 22, 2015.

### How to register for a written exam

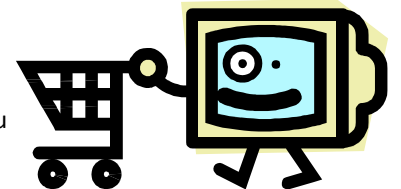
Fill out an official exam application and mail it, along with the \$100.00 fee, to: Division of Drinking Water, Operator Certification Program, 195 North 1950 West, P.O. Box 144830, Salt Lake City, Utah 84114-4830. Make the check or money order payable to the "Division of Drinking Water" or "DDW"

The exam application and fee must arrive at the Division of Drinking Water office on or before the deadline listed on this announcement. Applications and fees received after the deadline will not be accepted. A confirmation letter about your exam reservation will be mailed to you. If you do not receive your confirmation letter, please contact Margaret at DDW to make sure your application was received. Margaret: telephone 801-536-4192; e-mail [mhand@utah.gov](mailto:mhand@utah.gov).

### Apply for a written exam at the DDW website's shopping cart:

[www.deq.utah.gov/FeesGrants/fees/drinkingwater/shoppingcart.htm](http://www.deq.utah.gov/FeesGrants/fees/drinkingwater/shoppingcart.htm)

You may use the "Shopping Cart" system to submit the application online and pay the fee with a credit card. The system will accept Visa, Master Card, American Express, and Discover, or you can pay by Virtual Check. Please submit your application and payment by the deadline so that your exam booklet and seat can be reserved. If you have questions or need assistance, call the DDW staff at 801-536-4200 or send email to [mhand@utah.gov](mailto:mhand@utah.gov).



### Additional Exam Dates and Training (Contact RWAU)

The Rural Water Association of Utah (RWAU) will sponsor a written certification exam in conjunction with their Spring and Fall training conferences. **IMPORTANT** ► Individuals taking the RWAU-sponsored exam must submit the special RWAU exam application and \$100.00 fee directly to the RWAU office at 76 East Red Pine Drive, Alpine, Utah 84004-1557. For more information, contact Shantell Cummins at 801-756-5123.

- Exam date: February 27, 2015 (St. George City). Exam application deadline: February 6, 2015
- Exam date: RWAU Fall conference 2015. Information not yet available.

**ONLINE TESTING available year-round by appointment only:** To schedule a State of Utah online certification exam, contact Shantell Cummins at RWAU at telephone 801-756-5123. For more information about online testing and training, visit the RWAU website at <http://www.rwau.net>

# Operators Who Renewed Their Certificates in 2014

The following certified operators have successfully renewed their certificates by attending water-related training in the three-year period 2011 to 2013. The State of Utah Drinking Water Rules state that these operators must again earn a sufficient number of CEUs during the three-year period January 1, 2014 to December 31, 2016 to be eligible to renew.

\*D=Distribution; T=Treatment; S=Small System

Operator's Name	State Certification #	Grade Level	Water System or Employer
Adams, Andrew Lee	08394	D-II	Jordan Valley WD
Adamson, Charles Scott	00467	T-IV	Salt Lake City
Adkins Jr., Marlowe C.	22100	D-II	Richmond City Co.
Allen, Bevan Howard	92100	T-IV	Holliday Water Company
Allen, Christopher Jon	99184	D-IV	Ashley Valley Water
Allen, Daniel S.	25038	D-IV	South Jordan City
Allen, Kirk Roy	11666	SS	American Pacific Co.
Allinson, Matt	22501	D-IV	Saratoga Springs
Allred, Clayton R.	22502	T-IV	Park City Municipal Co.
Allred, Darrell Andy	99501	D-III	Rocky Ridge Town
Allred, Terry A.	22503	D-II	Rocky Ridge Town
Andersen, Arthur W.R.	23009	SS	Alton Town
Anderson, Blake Boyd	20066	D-IV	West Bountiful
Anderson, Blake Ronald	87760	T-IV	Kearns ID
Anderson, Colby Daren	07209	T-IV	Park City
Anderson, Jacob Swen	11697	D-III	Heber City
Anderson, Johnathan Andrew	11668	D-II	Nucor Steel
Aitken, Robert J.	22101	T-IV	Central Utah WCD
Argyle, Riley M.	08264	D-I	Garden City
Arnold, James David	08297	SS	Boulder Farmstead Water Co.
Arnold, Michael Scott	84002	D-IV	Sandy City
Arns, Brent P.	11777	D-IV	Payson City
Austill, Kevin Red	96100	D-III	American Fork City
Backman, Gustave P.	92103	D-IV	Salt Lake City Co.
Backman, Ronald E.	88501	D-IV	Centerville City
Bailey, Ian K.	11698	D-IV	Granger Hunter ID
Bair, Robert M.	22104	D-II	Richmond City
Baker, Matthew R.	08262	T-I	Cedar City
Ball, William Scott	08397	D-II	Richmond City
Barker, Martin Dell	08299	D-IV	Herriman
Barnes, Brian Steven	99102	D-IV	Taylorsville-Bennion ID
Barnes, Dennis G.	86673	D-III	Santaquin
Barnes, Ernest Lee	87745	D-IV	Lehi City Co.
Barr, Steven Lee	25530	D-IV	Cedar City
Bashore, Emilie	12803	T-IV	Jordan Valley WCD
Baxter, Paul K.	22105	D-IV	ATK Promontory Plant
Beck, Steven M.	90502	D-IV	Jordan Valley WCD
Belliston, Troy Lane	99105	D-IV	Granger Hunter ID
Benham, Orvan Richard	11755	D-IV	Sandy City
Bennett, Jesse D.	10533	D-IV	Payson City
Bennett, Shane D.	93103	D-I	Saratoga Springs
Beratto, David H.	94505	D-IV	Jordan Valley WCD
Biasi, Aldo Giovanni	25005	D-IV	Parowan City
Bird, M. Scott	99107	D-III	Mapleton City
Black, Rockney Bruce	96502	D-III	Pleasant Grove

Blake, Justin W.	11700	D-IV	South Jordan City
Blonquist, Brody B.	22003	D-I	Pine Meadow Mutual Water
Blymiller, Rick R.	24502	D-IV	Taylorsville-Bennion ID
Boam, David A.	11669	D-IV, T-IV	Mutton Hallow Water
Bowler, Scott L.	99108	D-IV	St. George Water
Bradfield, Douglas H.	11665	D-IV	Granger Hunter Improvement District
Brems, Jay L.	08301	D-IV	American Fork City
Brewer, Ronald Lee	88174	D-IV	Price City
Brinkerhoff, Eric Ricky	25042	D-IV	Waterpro Inc.
Brown, Harlow F.	22006	SS	Koosharem
Bryner, Ross L.	90505	D-IV	Price River WID
Buck, Albert Keith	88765	D-IV	Tooele City
Buckley, Scott L.	11760	T-I	ATI Rowley Operations
Budge, Jeffrey Don	95506	T-IV	Water Specialist
Bundy, Bronson Clark	08404	D-II	Washington City
Bunker, Eric W.	08405	D-I	Daniel Municipal Water
Busch, Chad David	22110	T-IV	Park City Municipal Co.
Basic, Ronald Lee	07126	D-IV	St. George Water
Caldwell, Chant R.	12806	D-IV	Deseret Power
Callaway, Jason Parrish	25046	D-III	Santaquin
Callison, James	96105	T-IV	Utah Valley University
Callister, Brian Jeffrey	97504	D-IV	Jordan Valley WCD
Carlson, Brian Ward	99113	D-IV	Hill Air Force Base
Carney, Charles L.	96106	D-IV, T-II	Washington County Water
Chadwick, Nolan J.	08406	D-IV	Sandy City
Chalk, Mark Ernest	24504	D-IV	Taylorsville-Bennion ID
Chamberlain, Steven Michael	25500	SS	Glendale Town Inc.
Chappel, James M.	97507	D-IV	Spanish Fork
Chappell, Cory Brown	11702	D-IV	Waterpro Inc.
Chartier, John L.	84711	D-IV	Department of Environmental Qualities
Childs, Donald R.	84225	D-III	Gunnison City
Childers, Henry F.	85003	D-IV	Washington County WCD
Christensen, David A.	25009	SS	Fishlake National Forest
Christiansen, Steven Scott	84005	D-IV	Hooper WID
Clark, Alan G.	08269	D-I	Erda Acres
Clark, Bradley Shane	24505	D-II	Washington County Water
Clark, Mark H.	90107	D-I	Weber Basin Water Conservancy District
Clark, Stephen Caleb	08307	D-IV	Granger Hunter ID
Clayburn, Scott	85015	D-III, T-IV	Park City Municipal Co.
Clements, Christopher M.	22113	D-IV, T-IV	Orem
Clark, Paul	20009	SS	Desert-Oasis SSD
Coburn, Terry R.	84325	D-IV	Layton City
Collett, Christopher Rene	08270	SS & T-II	Greendale Water
Cossey, Val Earl	89109	D-IV	Jordan Valley WCD
Covey, Max L.	99509	T-IV	Jordanelle SSD
Covington, Robert Loren	25011	D-III	American Pacific
Cracchiolo, Eduardo Maria	07133	D-IV	Jordan Valley WCD
Crafts, Rand J.	08271	D-I	Intermountain Power
Crane, Kevin R.	25047	D-IV	Jordan Valley WCD
Creamer, John Lynn	84443	D-I	Nordic Mountain Water
Crawford, Jon Mellor	21509	D-IV	Kearns ID
Cummings, Ross J.	84335	D-III	Fillmore City
Danielson, Marvin V.	22114	D-IV, T-II	Not Included
Dalton, Lester Carl	24010	T-IV	Washington City
Dalton, Matthew C.	25048	D-II	Lehi City
Davis, Bill Lee	97112	D-IV	Davis Water Works
Davis, Hal	92109	D-IV	Ogden City Co.
Davis, Larry Mike	90507	D-IV	Vernal City

Davis, Philip Lester	20011	D-II	Bryce Canyon Np
Dawdy, Timothy L.	20081	D-IV	Hill Air Force Base
Dawson, Ronald Cameron	98114	D-IV	Taylorsville-Bennion ID
Dayton, Barry Dean	08313	D-IV	American Fork City
De Jong, Frank	99118	D-IV	Kearns ID
Dean, Lesa Heiner	12807	T-I	Capitol Reef
Decker, David K.	99511	D-IV	Provo City
Defa, Jody J.	98115	D-IV, T-III	Timber Lakes Water SSD
Dehart, Brian J.	11705	SS	Falcon Crest Water Co.
Desmarais, Jason P.	22115	D-II	Sandy City
Devey, Daryl L.	87804	D-IV	Central Utah WCD
Devries, Michael J.	98511	D-IV	Metropolitan WD of Salt Lake & Sandy
Deware, Allan William	99512	D-I	Erda Acres
Dickinson, Thomas L.	11782	D-IV	City of Logan
Dietrich, Blain R.	20082	D-IV	Bluffdale
Dilello, Anna	98116	D-IV	Sandy City
Doolan, Timothy E.	88098	D-IV	Ogden City Co.
Dotson, Timothy Merrill	24545	D-IV	St. George Water
Douglas, Shane W.	95110	D-IV	Not Included
Doyle, Jason J.	22117	D-I	Kennecott Utah Copper
Draper, Samuel Benjamin	11709	D-II	Mount Pleasant City
Drummond, Brad L.	98118	D-IV	St. George Water
Duggin, Michael D.	08408	D-I	Daniel Municipal Water
Ekker, Terry K.	08315	T-II	Blanding City
Elliott, Lynn Rex	22181	D- I	Eureka City
Elmer, Jeffrey F.	99120	D-IV	Roy City Public Works
Emerson, Rocky Gordon	96112	D-IV	Sandy City
Engleman, Philip J.	93111	D-II, T-IV	Green River City
Erickson, Kim William	22509	T-IV	Kennecott Utah Copper
Espinoza, Todd N.	99121	D-IV	Ogden City Co.
Esplin, Tim Eric	25502	SS	Zion Special Service District
Estrada, James Kelly	25052	D-IV	Riverton City
Eva, Wade A.	25053	D-III	Santaquin
Evans, Stephen C.	22510	D-IV	Water Specialist
Farnsworth Jr, Bruce Arthur	94517	D-IV	Orem City
Favero, Adam David	25054	D-IV	West Jordan City
Farrer, Nathan L.	25537	D-IV	Granger Hunter ID
Fenn, Kevin Warren	87724	D-IV, T-IV	Taylorsville-Bennion ID
Ferrante, Frank	11762	D-I	Mutton Hollow
Fisher, Lance Reed	98120	D-IV	Taylorsville-Bennion ID
Fjelstrom, Craig Scott	08410	D-IV	Kearns Id
Fleming, Daniel A.	84238	D-IV, T-IV	City Of Blanding
Fletcher, Alma D.	08411	SS	Cannonville Town
Flores, Richard J.	20086	T-IV	Salt Lake City Public Works
Folkman, Mike S.	21517	T- IV	Summit Water Distribution Co.
Fox, Matthew John	23095	D-IV	Bona Vista Water
Franklin, Jon Ray	08412	T-IV	Central Utah WCD
Freeman, William Lloyd	24014	T-IV	Wendover City
Fritz, Ken J.	86664	D-IV, T-IV	Metropolitan WD of Salt Lake & Sandy
Frost, Timothy Allen	08373	D-IV	Salt Lake City
Fulgham, Paul Cullen	88129	D-IV	Tremonton City
Fullmer, Jesse Duane	09528	D-IV	Salt Lake City Co.
Fulton, Stephen C.	99518	D-IV	Roy City Public Works
Gale, Delrie W.	11672	SS	Canyon Rim Ranch
Gallegos, Michael R	99519	D-IV	Ogden City Co.
Garbett, Fred Lynn	25511	SS	Eureka City
Gardner, Chad Jay	11673	SS	American Pacific
Gardner, David A.	00466	T-IV	WaterPro

Garrison, Raymond Harold	22559	D-IV	South Jordan City
Gee, Martha J.	86130	D-III	Mountain Regional Water SSD
Gehrke, Allan D.	23044	D-IV, T-IV	Lagoon Investment Co.
Gines, Phares K.	08274	D-II	Woodland Mutual Water Co.
Gines, Rick G.	22124	T-II	Mountain Regional Water SSD
Glenn, David L.	00641	D-IV, T-IV	Ivins City
Goodwin, Andrew W.	08320	D-I	State Of Utah- Water Specialist
Goodwin, Bret L.	21521	D-IV	Metropolitan WD Of Salt Lake & Sandy
Grace, Cody Jereme	97124	D-IV	Provo City
Grammer, Bradley Charles	99522	T-IV	Central Utah Water
Gray, Lane D.	90113	D-IV	Orem City
Green, Daniel H.	22123	D-II	Fruit Heights City
Green, Duane Charles	88120	D-IV	Riverton City
Green, Kevin Michael	08322	T-IV	Weber Basin Water Conservancy District
Green, Michael E.	93517	D-III	Pleasant Grove
Greenwald, Donald Wayne	08323	D-IV	Ogden City Co.
Grimsdell, Jeffrey L.	92119	D-IV	Salt Lake City
Grundy, Stanley R.	99523	D-IV	Jordan Valley WCD
Gubler, Douglas	93519	D-III	La Verkin City
Gudgell, W. Wayne	11675	D-I	Dixie Deer SSD
Gunderson, Jared Dean	98123	D-IV	City Of Driggs
Gunn, Dennis M.	22185	D-IV	Coalville City & Heber Valley SSD
Haas, Merrill A.	93521	D-IV	Orem City
Hale, Charles L.	10640	D-IV	Central Utah WCD
Haley, Timothy M.	11676	SS	Church Wells SSD
Hall, Gary M.	98514	D-III	Kanab City
Hans, Paul David	99524	T-I	Town of Springdale
Hansen, Anne Kay	25512	D-IV	South Jordan City
Hansen, Douglas Andrew	92508	T-IV	Holliday Water Company
Hansen, Garrett Lee	91115	D-III	Castle Valley SSD
Hansen, Kimberly A.	08374	SS	Solitude Ski Resort
Hansen, Steven B.	08328	T-IV	Jordan Valley WCD
Hanson, Patrick Ian	07226	D-IV	Price River WID
Harrison, Jason L.	10600	D-IV, T-IV	Lagoon Investment Co.
Hart, Brandt G.	11713	SS	Bureau Of Land Management
Hart, Robert S.	25515	SS	Pine Mountain Mutual Water Co.
Hartline, Craig Allen	08415	D-I	National Park Service
Harwood, Gary Richard	84524	D-III	Helper City Co.
Haslam, John S.	90117	T-IV	Salt Lake City Water
Haslam, Roland Briar	11714	D-IV	Cottonwood Mutual Water
Hatch, David Lee	84043	D-IV, T-IV	Ashley Valley
Hatch, Ray M.	99132	D-I	Centerville City Corp.
Hatch, Roger Kent	00354	D-III	Central Utah WCD
Hebert, Michael B. J.	25538	T-IV	Kennecott Utah Copper
Hefflefinger, Kenneth Boyd	11785	D-IV	Ogden City Co.
Henline, Dallas Hayes	11716	D-IV	Magna Water District
Herbert, Lorin Kent	23104	D-IV	Ogden City Co.
Hess, Larry D.	11786	SS	Park Valley School
Heyrend, Tim	11787	D-IV	West Jordan
Higbee, Kelly D.	97530	D-IV	Logan City
Hill, Tracy L.	99134	D-IV	Provo City
Hills, Kim	00190	T-III	Salt Lake City Public Utilities
Hinckley, Matthew Don	12804	D-IV, T-IV	Jordan Valley WCD
Hirayama, Colin Mitsuo	06047	D-IV	Metropolitan WD Of Salt Lake & Sandy
Hogan, John P.	25001	D-II	Kanosh Town Co.
Houts Sr., Christopher F.	11677	SS	American Pacific
Howard, Matthew L.	99528	D-IV	Roy City Public Works
Howell, Geoffrey Brian	08375	T-IV	Water Basin WCD

Hoyt, Jeffrey Hilton	98518	T-I	Kane Country WCD
Hughes, Slade Rudy	08277	D-I	Veyo Culinary Water Association
Hunter, Gary Steven	08278	D-I, T-I	Stockton City
Hunter, Rulon Keith	08330	D-IV	Herriman City
Hunting, Terrill W.	89117	D-IV, T-IV	Centural Utah Wcd
Hutcheon, Arthur Jack	98127	D-IV	Taylorsville-Bennion ID
Hutchings, Larry	86684	D-III	Hurricane
Ipson, Blaine	23016	SS	Country Estates Lot Owners Association
Iverson, Kelby Bronsen	23164	T-II	Water Specialist
Jaques, Rodney B.	08332	D-IV	Layton City
Jeffries, Jonathan Lewis	24113	D-IV	Metropolitan Wd Of Salt Lake & Sandy
Jeffs, Charles E.	00535	D- IV, T-IV	Rural Water Association of Utah
Jenkins, David Leonard	11718	SS	North Folk Learning Center
Jensen, Jonathan Patrick	99139	D-IV	Ogden City Co.
Jensen, Raymond L.	25020	SS	Brooklyn Tapline
Jensen, Stewart A.	25058	D-II	Centerfield City
Jensen, Tyler Antone	08419	T-IV	Weber Basin WCD
Jerominski Jr, Paul Edward	99141	T-IV	Park City Municipal Co.
Jessen, Dallan J.	99530	D-I	Harmony Heights
Jessen, Darrow H.	99531	SS	Harmony Heights
Jessop, Dan O.	96129	D-IV	Kaysville City
Jessop, David Loyd	10603	T-IV	Washington County Water
Johnson, Brandon	08420	D-II	Spanish Fork City
Johnson, Robert Workman	20527	D-IV, T-IV	Mountain Regional Water SSD
Johnson, Russell K.	22191	SS	Geneva Rock Products
Johnson, Ryan Robert	21021	D-IV	White City WID
Johnson, Todd M.	11720	D-IV	West Jordan
Jones, Chrissie Marie	11722	D-IV	Ogden City Co.
Jones, Stephen C.	99143	D-IV	City Of Orem
Jones, Tim L.	22212	D-IV	St. George Water
Jones, Zane T.	94136	D-IV	Cedar City
Jorgensen, Theodore Steve	23006	SS	Silver Lake Co.
Judd, Daren W.	22213	D-IV	St. George Water
Juergens, John Jerome	26045	D-III	Central Iron County WCD
Keers, Peter T.	89515	T-III	DDW
Keller, Adam B.	08333	D-IV	Farmington City
Kendall, Bert Gordon	06016	D-III	Monroni City
Kennard, Matthew Michael	22135	D-III	Heber City
Kende, Albert S.	98128	D-IV	Summit Water Distribution Co.
Kesler, Larry Dean	94528	T-I	South Jordan City
King, Jeffrey James	11788	T-IV	Weber Basin WCD
Knight, Brett Jerold	09459	D-IV	Smithfield City
Kofford, Danny Thomas	00638	D-IV	Price River Water District
Kopfman, William Raymond	92131	D-IV, T-IV	Hill Air Force Base
Krajnyak, Andrew J.	21536	T-IV	Price River WID
Kunz, Jeffery David	20033	D-II	Twin Oaks Local District
Lance, Jeffrey Carl	22017	D-IV	St. George Water
Larkin, Brent S.	25022	D-IV	St. George Water
Larkins, Howard J.	92132	D-IV	Layton City
Larsen, Dean L.	97144	D-III	Uninta Wasatch-Cache National Forest
Larson, Mark S.	22018	D-IV	Ukon Water Co.
Lawson, John S.	96519	T-IV	Kearns ID
Leaver, Bob	22177	SS	South Monroe Culinary
Leavitt, Judy E.	08334	SS	Gunlock SSD
Lee, Rex	11765	T-IV	Weber Basin WCD
Lewis, Jordan Bradley	11754	D-IV	Provo City
Lim, Travis Yuen	11724	D-IV	South Jordan City
Limb, Chad M.	89516	D-IV	Beaver City



Lindt, Trevor Wade	08422	D-III	Price City
Lofley, Blane D.	89120	T-III	Castle Valley SSD
Lofley, Keith	89121	D-III	Castle Valley SSD
Lovato, John D.	08423	D-IV	North Salt Lake
Lovato, Samuel D.	94144	D-II	Centerville City
Love, George Sullivan	90122	D-IV	Orem City
Loveland, Bruce L.	22522	D-IV	Granger Hunter Improvement District
Lucas, James B.	06054	D-IV	White City WID
Lupold, David Ray	12809	T-IV	Central Utah Water
Mabey, Brad G.	25059	T-IV	Jordan Valley WCD
Macarthur, Kyle Patrick	24521	T-IV	Park City Municipal Co.
Macauley, Ying Ying L.	25541	T-IV	DDW
Macintosh, Wayne S.	24063	D-IV	St. George Water
Marcek, Matthew Wayne	11789	D-IV	Draper City
Marchant, Marc Nathan	11726	D-I	Centerville
Martin, Travis Brett	08336	D-IV	West Jordan City
Mason, George R.	99538	SS	Cross Holow Hills Water
Massey, Flayne	90143	D-II	Jensen Wd
Matheson, Jeffery E.	99539	T-IV	Metropolitan WD of Salt Lake & Sandy
Mathis, Rex Bullock	99148	D-IV	Central Utah WCD
Maxwell, James Joseph	22021	SS	Hanna Water & Sewer
May, Harley D.	07157	D-IV	California Water Services- Water Specialist
McClellan, Clark L.	98524	D-IV, T-IV	Central Utah WCD
McDonald, Kalli A.	09543	T-II	Riverton City
McDonald, Nicholas James	25560	T-IV	Jordan Valley WCD
McGill, Jacob George	08426	D-IV	Metropolitan WD of Salt Lake & Sandy
McNeely, Troy Lee	22022	D-II	Honeybille City
Meacham, Andre W.	11767	SS	Lagoon Investment Co.
Meadows, Bryan K.	22198	D-I, T-III	Green River
Medina, Jesus	08429	D-II	Washington City
Meyerhoffer, Chad Leonard	25061	SS	Weber County
Memcott, Mark L.	25558	SS	Pine Mountain Mutual Water Co.
Mendenhall, Nathan Jay	10611	D-IV	Holliday Water Company
Mergist II, Adam Benny	08382	D-II	Heber Valley Camp
Middlemas, Robert K.	25519	SS	Antelope Island
Millard, Bart C	22200	D-I	Zion SSD
Miller, Evan D.	11728	SS	Powder Mountain
Miller, Hal Ray	22214	D-IV, T-IV	Metropolitan WD of Salt Lake & Sandy
Miller, John Rocky	07160	D-IV	West Bountiful City
Miller, Marinda M.	25559	D-IV	Granger-Hunter ID
Miller, Robert William	24525	D-IV	St. George Water
Mills, Mathew	22179	SS	South Monroe Culinary
Mills, Michael	22178	SS	South Monroe Culinary
Minch, Steven Joseph	08339	D-IV	Jordan Valley WCD
Mitchell, Duane Craig	92137	D-IV	Metropolitan WD of Salt Lake & Sandy
Mitchell, Kenneth Glen	99151	D-IV	Park City
Monroe, Jason Dean	25521	D-III	Clinton City Corp.
Monroe, Paul Robert	11768	D-II	Central Iron County WCD
Monson, Ruston J.	08432	T-IV	Ogden City Co.
Montes, Gerardo M.	99546	D-IV, T-IV	Ogden City Co.
Montgomery, Chad W.	10562	T-IV	Ogden City Co.
Montoya, Orlando Reyes	25544	D-IV	Metropolitan WD of Salt Lake & Sandy
Morris, Kendall A.	25025	D-I	Acme Water
Mouritsen, Dustin Cole	98145	D-IV	Santa Clara City
Mousley, Blake C.	11730	D-IV	Jordan Valley WCD
Muhlestein, Shyloh M.	20118	D-IV	Lehi City
Murphy, David Marion	11731	D-IV	West Jordan City
Murphy, Terry A.	25522	D-I	Green Hills Water & Sewer

Myers, Kurt R.	92512	T-IV	Central Utah WCD-Utah Valley
Myers, Robert Stuart	07236	T-IV	Washington City
Naranjo, Michael J.	99154	D-IV	Layton City
Nedesky, David A.	25063	T-IV	Central Utah WCD
Nelson, Bradley Dell	25545	T-IV	Weber Basin WCD
Nelson, Clayton J.	22142	D-III	River Heights City
Nelson, Paul Wayne	92514	D-II	Perry City Corp
Nelson, Robb Dallen	99547	D-IV	Orem City
Nicholas, Kelly T.	25546	D-I	Corinne City
Nielsen, Corey W.	99156	D-III	Hyrum City
Nielson, Dallas B.	11733	D-IV	Lehi City
Nielsen, Dennis Melvin	97151	D-IV	Taylorsville-Bennion ID
Nielson, Jerry Orr	93123	D-IV	Waterpro Inc.
Nilsson, Heidi M.	12805	D-IV	Jordan Valley WCD
Norton, Grant Douglas	22144	D-IV	Sandy City
Nylander, Jerry A.	93124	T-IV	Weber Basin Wcd
Oakeson, John H.	00672	T-IV	DDW
Obrien, Zachary Ben	11734	D-IV	Layton City
Ohler, Brian R.	93532	T-IV	Deseret Power
Oldham, Zackary Chad	08436	D-IV	Metropolitan WD of Salt Lake & Sandy
Olpin, Mark L.	08437	D-III	Heber City Public Works
Olson, James Gardner	25064	D-IV, T-IV	Metropolitan WD of Salt Lake & Sandy
Olson, Stacie L.	08342	D-IV	Riverton City
Ovard, Brent George	22560	D-I	Henefer Town
Paddock, Shane D.	92167	T-IV	Jordanell SSD
Palmer, Marty Lynn	08292	D-III	Nephi City
Paxman, Scott William	93535	T-IV	Weber Basin Conservancy District
Payne, Roger L.	99551	D-IV	West Jordan City
Peacock, Brad R.	11685	D-I	Pine Mountains Mutual Water Co.
Petersen, Ben Louis	99164	D-IV	Orem City
Peterson, Jake Browning	09549	D-III	Riverdale City
Peterson, Randy Earl	08440	D-IV	Bluffdale
Peterson, William A.	08344	T-I	Mysentinel Property Management
Phippen, Robert E.	25027	D- II	Bear River WCD
Pickering, Elmo Wendell	22027	SS	Ampac SS
Pittman, Grant D.	23061	T-I	Lagoon Investment Co.
Potts, Dennis A.	84587	T-IV	Salt Lake City Public Utilities
Poulsen, John Eric	08384	T-IV	Jordan Valley WCD
Pratt, Kenneth W.	22029	SS	American Pacific
Preece, Abby Jo	99553	D-IV	Weber Basin
Prescott, Brandon Jon	07241	D-IV	Hill Air Force Base
Prince, Robert L.	86635	D-IV	Backflow Services LLC
Pugsley, David R.	25523	D-II	Rural Water Association Of Utah
Pugsley, Tyler David	96145	D-III	Brigham City Corp.
Quinn, Raymond L.	24540	T-II	North Emery Water SSD
Quitter, James E.	25029	SS	Fremont Indian State Park
Rasmussen, Mike L.	11736	D-IV	Jordan Valley WCD
Rasmussen, Neil James	25067	D-IV	South Jordan City
Rasmussen, Shannon Carey	08441	D-III	Rural Water Association of Utah
Reber, Matthew E.	11686	D-II	Gunnison City
Redd, Brent C.	11687	D-III	North Logan City
Reynolds, Casey J.	99555	D-I	Rocky Ridge Town
Rhoades, Leon L.	08385	D-II	Heber Valley Camp
Rhoton, David Ryan	12814	SS	Rainbow Ranches
Richardson, Billy Joe	22219	SS	East Lamb SSD
Richens, Dean Aitken	11737	D-II	Bonanza Water- Water Specialist
Richins, Corey Lane	08364	D-IV	Clinton City
Richins, Jedediah Ken	22216	D-IV	Washington City

Richins, Ken	96529	D-IV	Hurricane City
Ricketts, Scott Robert	95143	D-II	Washington Terrace City
Riding, Alan K.	87749	D-IV	Delta City
Rino, Eugene A.	25069	SS	Whispering Pines Water
Robbins, Brett Franklin	24084	T-IV	Water Pro
Roberts, Gaylen Dee	25031	D-I	Camperworld
Roberts, John W.	99557	D-II	Sunrise Engineering-Water Specialist
Roberts, Ricky Ray	08287	D-II	Washington City
Robertson, Jeremy C.	22536	D-IV	City Of West Jordan
Robinson, Keith	84706	D-III	Kanab City
Robison, Leland Drew	08348	D-IV	City Of South Jordan
Romero, Ross	08349	D- II	Washington City
Rueckert, Jonathan A.	25551	D-IV	North Salt Lake
Roth, David B.	22149	T-I	Metropolitan WD of Salt Lake & Sandy
Sabey, Rick C.	93129	D-IV	Wallsburg Town
Sadler, Dennis Wayne	20545	D-IV	Mt. Regional Water
Sanchez, Ruben E.	22150	D-IV, T-II	Kearns ID
Sarvela, Mark Henry	08444	D-IV, T-IV	Metropolitan WD of Salt Lake & Sandy
Sawatzki, David Julius	08386	D-II	Housing Authority of the county of Salt Lake
Sawyer, Michael Danvers	08445	D-IV	South Ogden
Schanbeck, Lyle Dale	11688	D-I	Mid Valley Estates
Scofield, Rusty M.	22152	D-III	Tremonton City
Searle, Jaide	26135	D-IV, T-II	Mt. Regional Water
Shafer, Robert Dale	89133	D-IV	South Ogden City
Shaw, Cary D.	00723	D-IV	Jordan Valley WCD
Shelton, Paul V.	10569	D-IV	Central Utah Wcd
Shepherd, John Dustin	12802	D-II	Mapleton City Public Works
Shepherd, Kristine Marie	12810	T-IV	Weber Basin Wcd
Shoop, Christopher Wayne	22540	D-I	Bueua Vista Community & Water Corp.
Siddoway, Gary Norman	22541	D-II	Kamas City
Simons, Alvin Bartley	84061	D-IV	Provo City
Slack, Randy J.	97165	D-IV	La Verkin City
Slade, Karl Ross	98534	D-IV	Taylorsville-Bennion ID
Slater, Jeremy David	08362	D-IV	Orem City
Slaugh, Bryce	91138	D-III	Price City
Slaugh, Wesley Scott	25071	SS, T-I	Questar Pipeline Co.
Small, Jeffrey A.	09621	T-IV	Jordan Valley WCD
Smith, Brannen Wayne	07170	D-IV	Water Pro
Smith, Gordon L.	90132	D-II	Metropolitan WD of Salt Lake & Sandy
Smith, Lonnie M.	99170	D-IV	Layton City
Smolka, Dee T.	08352	D-IV	Granger Hunter Water Improvement District
Snook Jr., Kenneth Harold	00561	T-IV	Price River WID
Snow, Troy J.	25073	D-IV	Pleasant Grove
Sovine, Mark	25074	D-III	Grand Water & Sewer Service Agency
Sorensen, Eric Scott	07171	D-IV	Metropolitan WD of Salt Lake & Sandy
Spackman, Adam D.	08449	D-IV	Granger Hunter Improvement District
Spackman, David A.	87740	T-IV	Jordan Valley WCD
Spackman, Nathan P.	11791	SS	Park Valley School
Spens, Paul John	23134	D-IV	Weber Basin Water
Starr, Steven L.	11740	D-IV	Granger Hunter Improvement District
Steed, Joshua D.	22155	D-IV	Layton City
Steele, Chris Kay	11689	D-II	Town of Genola
Steel, Vern S.	07173	T-IV	Rwau
Stevens, Bobby Verl	08450	D-I	Meadows Ranches Co Inc.
Stewart, Rickey L.	25075	D-IV	Roosevelt City Co.
Stock, Ronald Alan	98155	D-IV	Taylorsville-Bennion ID
Stokes, Brandon P.	22156	D-IV, T-IV	Park City
Stoneman, Don R.	95540	D-II	Spanish Fork City

Stott, Damian Jose	09563	T-II	Riverton City Water
Stout, Sam Kay	22033	D-I	Boulder Farmstead Water Co.
Straw, Mack A.	08363	D-III	Eagle Mountain City
Strickland, Fredrick A.	22547	T-IV	Metropolitan WD of Salt Lake & Sandy
Stringham, Daniel D.	93547	D-I	Laketown City
Sudar, Gary Michael	08354	T- IV	Central Utah WCD
Sudar, Jonathon Eric	08355	T-IV	Central Utah WCD
Sullivan, Tyler Brock	11690	D-II	Parowan City
Sulser, Kirk L.	84032	D-III	Timberlakes Water SSD
Sulser, Lynn Jay	96152	D- IV	Jordanelle SSD
Summers, Lynn Cook 'Woody'	07116	D-IV	Midvale City Corp.
Sundberg, Marlin K.	92154	D-IV, T-IV	Holliday Water Company
Surrage, Val	25076	D-II	Taylor West Weber WD
Swasey, Daniel K.	25077	D-II	East Duchesne Culinary
Tabor, Robert W	25078	D-II	Dugway
Tatafu, Hakeai H.	11742	D-IV, T-IV	Jordan Valley WCD
Thackeray, Alan Rodger	99175	D-IV, T-IV	Jordan Valley WCD
Thanasilp, Savidtri	22550	T-IV	Jordan Valley WCD
Thompson, Douglas Richard	11744	D-II	Willard City
Tietje, Matthew James	98539	D-IV	Metropolitan WD of Salt Lake & Sandy
Tom, Pat	24538	D-IV	Metropolitan WD of Salt Lake & Sandy
Toomer, Casey Lynn	25079	T-III	Castle Valley SSD
Topham, Vince	11794	SS	Cedar Breaks National Monument
Totten, Robert Stoy	25552	T-II	Town of Springdale
Trias Jr., Carlos	11691	D-II	Washington City
Tubbs, Cole Eugene	08356	D-I	West Haven Ssd
Turner, Nathan L.	08291	D-IV	Murray City
Twitchell, Kenneth Clin	92157	D-IV	Salt Lake City Corp.
Udvary Jr, George	25080	SS	Spruce Culinary Water Co.
Underwood, William D.	11745	D-IV	Bluffdale
Utley, Ryan Michael	11796	D-II	Intermountain Power Service Co.
Vail, Gary Leon	24078	D-IV	Ogden City Co.
Vandemerwe, Jed G.	25081	D-IV	CRS Engineering
VanNosdol, Trevor Barton	11746	D-IV	Provo City
Voth, Jeremy G.	08390	D-II	Hyrum City
Waldron, Brett Gilispie	08454	D-IV	Spanish Fork City
Walker, Buck J.	08391	D-IV	Clinton City
Walker, Rhett Dax	25553	D-IV	Herriman City
Wall, Shawn Ronald	94177	D-IV	Magna Water Ditsrict
Walton, Randal M.	22554	T-IV	Central Utah WCD
Wanlass, Rodney Kirk	23073	T-II	Monroe City Co.
Wardley, Wayne M.	22162	D-II	Sun Products
Webster, Jonathan Michael	08292	D-III	Nephi City
Wheeler, Claudia M.	94103	D-IV	Metropolitan WD of Salt Lake & Sandy
Whinham, Jeffery M.	08361	D-IV	Layton City
White, Corban Scott	11747	D-IV	Central Utah WCD
White, Greg J.	20559	D-IV, T-IV	Summit Water Distribution Co.
White, Hayden Leslie	11748	D-IV	West Jordan City
White, Morgan Charles	22040	SS	Cove Special Service District
White, Ryan Kenneth	11772	D-I	LDS Church
Whitney, Shane B.	23004	SS	Clean Harbors
Wichmann, Jason Mark	07253	D-III	Price City
Wilde, Kenneth Edward	26144	T-IV	Water Specialist
Wilhelm, Robert Kay	88537	T-III	North Logan City
Wilkerson, John Martin	09629	D-IV	Provo City
Willes, David Matthew	11750	D-IV	Provo City
Williams, Jeffrey Mark	11693	SS	Capitol Reef
Williams, Randy S.	08392	T-IV	Salt Lake County Health Dept.

Williams, Ryan Steven	20560	D-IV	Mountain Regional Water SSD
Williamson, Tom L.	23551	D-III	Metropolitan WD of Salt Lake & Sandy
Wilson, Michael L.	93555	D-IV	Metropolitan WD of Salt Lake & Sandy
Winward, Matthew Lee	25084	D-IV	South Jordan City
Withers, Brandon Leroy	11751	D-IV	Mountain Regional Water Ssd
Wittwer, Kurtis K.	84389	D-IV	Water Specialist
Wolfinjer, Kirby Lane	25526	D- IV	Roosevelt City Co.
Wood, Samuel Jake	21565	D-III	Hyde Park City
Woodruff, James F.	11773	D-IV	Layton City
Wolf, Jared Tony	11797	D-IV	Circle Four Farms
Woolsey, Scott Jerry	22041	SS	Bicknell Town
Wootton, Nolan Varian	21172	D-IV	Waterpro
Worley, Terry Lynn	21567	D-IV	Metropolitan WD of Salt Lake & Sandy
Worwood, Mike L.	11798	SS	Barnes Bullets
York, Ryan W.	98168	D-IV	Provo City
Young, Ronnie L.	93558	D-I	Myton City Co.
Younger, Stacy I.	25527	D-II	South Willard Water Co.
Zinz, Daniel Scott	08360	D-II, T-II	Hill Air Force Base
Zufelt, Jason D.	11752	D-IV	Saratoga Springs

## New Staff



### Shaunna Heuser

Shaunna Heuser, otherwise known as the “Candy Provider” started at the DDW in July. I have been here as a Receptionist for a short time, but the people in this division have made me feel at home right away.

I am a Colorado native but I have been here in Utah for most of my adult life. When I’m not at work I am spending time with my family. I am one of those Moms whose identification is all wrapped up in her kids, but I wouldn’t change it. I have three sons ages; 19, 18 and 3. The third was a miracle baby, I am not completely insane (yet)

I am a complete animal lover and I volunteer for the Utah Friends of Basset Hounds, if you need a furry friend just say the word!.

### Brandi Smith

I am Brandi Smith the new Environmental Program Coordinator. I started working for Rural Water in the Division of Drinking Water in June 2014. I have previously worked at Kilgore Companies as the fuel manager and also tracked all the UDOT compliance records. Prior to Kilgore I worked for PRG Schultz for 10 years as an accounts receivables and payables auditor. I am a single parent to an amazing 9 year old daughter. My daughter keeps me very busy, especially during Soccer season. In my free time I like to fish, go camping, ride horses, and spend time with my family and friends. I am very excited to be a part of the RWAU and DDW teams! If you have any questions I can be reached at 801-536-4210 or [BrandiSmith@utah.gov](mailto:BrandiSmith@utah.gov)



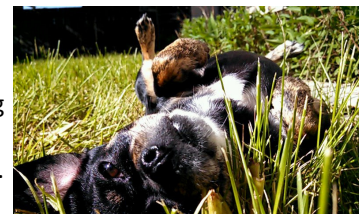
### Ashley Farr

My name is Ashley and I started working at DDW June of 2014 as a clerical secretary. My primary job duties include clerical support, writing correspondence letters, data entry, and performing state mailing and printing services. I previously worked at Rocky Mountain Raceways as an EMT until the racing season ended.

I grew up in Utah and currently attend the University of Utah as a junior studying health promotion and education with emphasis in emergency medical services; I plan to graduate spring of 2016. When I’m not at work I enjoy working on my car, watching movies, and eating Chinese food.

### Dawnie Naccarato

I joined the Rural Water Association and the Division of Drinking Water staff in June 2014. I provide clerical support for the Field Services and Engineering section. I have previous data processing and office experience. I am studying Geographic Information System (GIS) at Salt Lake Community College. I was raised in Utah and love all it has to offer. I enjoy hiking, camping, and snowboarding.



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