UTAH DIVISION OF DRINKING WATER

OpenLine



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Division Director's Report

This article of the OpenLine will discuss an audit which EPA performed on the Division of Drinking Water's operations in August of 2010 and April of 2011. Their findings were transmitted to the Division on January 31, 2012. The focus of this audit was the implementation of the National Primary Drinking Water Regulations. The audit also included primacy (primary responsibility to implement the federal regulations) issues such as: plan reviews, source protection, operator certification and the State Revolving Fund (SRF). To indicate how extensive the au-



dit was, there are specific sections in the audit report that Ken Bousfield– Director cover: a) the Division's funding, b) personnel numbers devoted to the various programmatic functions, c) data systems, d) the plan reviews, e) sanitary surveys, f) the SRF program, g) enforcement, h) source protection, i) operator certification, j) capacity development, and k) implementation of specific EPA rules including: i) the Surface Water Treatment Rule, ii) the Disinfection Bi-product Rule, iii) the Coliform rule, iv) the Groundwater rule, v) the Lead/Cooper rule, vi) the Inorganic Contaminate Rule, vii) the Phase II/V rule, viii) the Arsenic rule, ix) the Radionuclide rule, x) the Consumer Confidence Report rule, and xi) the Public Notification. A copy of the audit report and my response letter can be found on our website: http:// www.drinkingwater.utah.gov. Once there, look in the left column for: "About

DDW" and click on it. This will take you to a summary page about the functions of each Section within the Division. At the top of this page is a link to both documents.

The Audit Findings: I will spend the remainder of this article talking about the findings, and conclusions of the audit and that will be followed by my assessment of the audit's implications for the state of Utah. First of all, the funding describes how the state is heavily funded by federal grants. Nearly 75% of our operating budget comes from federal sources. It also references the need for State matching funds in order to qualify to receive the federal funding.

The audit covers the staffing levels that the Division employees to accomplish all of the tasks required under the primacy requirements. There is an interesting table on page 7 of the report that quantifies how the Division is significantly understaffed, in the eyes of the EPA auditors, to fully implement the federal primacy requirements. The table show where we're at about 64% of needed staffing levels.

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Director's Report Continued

Under the section of databases, the report talks about some of the innovative strategies we've used to further the capabilities of the existing staff. The report also outlines the workload associated with plan reviews and a table is provided that shows the workload is increasing over time.

In the discussion of sanitary survey (on-site inspections) the report describes the current efforts and how that will be increased when we implement the Ground Water Rule and the Surface Water Treatment Rule to their fullest extent. The report also discusses the option of performing surveys on a 5 year frequency depending on system classification and performance. The report gives a brief description of the State's State Revolving Fund (SRF) used to assist water systems in building infrastructure. More detail regarding the SRF program was not given due to the fact that SRF programs are given a separate audit by other EPA personnel on a yearly basis.

In the discussion regarding enforcement the report cites the Division's lack of tracking milestones as a problem. The Source Protection section of the audit report talks about the limited staff that is spread thin by related duties. The Operator Certification section of the audit report draws attention to the correlation between certified operators and increased compliance rates for water systems employing certified operators.

The audit report goes into detail regarding the Division's efforts to implement EPA's regulations. A recurring theme in this section of the audit report is the limited number of staff devoted to each rule. The audit report did highlight problems with three specific rules: 1) The Groundwater Rule, 2) the Lead/Copper Rule and 3) the Arsenic Rule. The Groundwater rule was mentioned because of its relative newness and the inexperience of staff in implementing it. The Lead/Copper Rule and the Arsenic Rule were mentioned because of the incomplete effort in properly identifying and enforcing monitoring violations and properly following up with action levels and MCL's.

The Audit's Conclusions:

The conclusions of the audit report are as follows: None of the current Drinking Water Rules are being fully implemented in all respects due to limited resources.

Limited resources are focused on public health issues and return to compliance assistance, with enforcement taking a secondary priority.

Timely and complete data entry and consistent use of SDWIS (the federal database used to track compliance with federal regulations) is a recurring problem noted

within most rules.

Further cuts in funding could have significant negative impacts on the ability of Utah DDW to meet minimal requirements.

The volume of work entailed in tracking, reporting, compliance determination, and enforcement limits existing Rule Managers' ability to provide proactive technical

assistance to public water systems, resulting in violations that could be avoided. Personnel stability and the high quality of personnel are allowing Utah DDW to meet most of its obligations with only marginal staffing. However,

"A recurring theme in this section of the audit report is the limited number of staff devoted to each rule." any loss of experienced personnel will significantly degrade Utah DDW's performance.

Implementation of the new Groundwater Rule is stretching current resources and may cause further program degradation.

The audit's implications:

The audit seems to accurately describe the conditions of the State's drinking water program for the indicated timeframe. Now, after a little over a year later, there have been some changes which are listed below. There is also some new challenges related to federal funding (remember that 75% of the Division's funding comes from federal sources) that make the findings of the audit potentially more ominous. At the present time Congress and the President are in negotiations relative to the funding of federal programs, and the potential for significant cuts may occur in the future. In the recent past, we have seen evidence of this as the SRF monies have been decreasing with recent allocation. Further, the federal government is operating on what is known as a "continuing resolution", which means the federal government may continue to spend, at a reduced rate, based on the budget of the previous year.

Because of the uncertainty of this, EPA has only authorized half of our State Revolving Fund (SRF) Loan money. This means that less money is available for building infrastructure. In addition to this concern there is a Division operational funding issue as well. This is because there is the option for the state to legally take, what is known as "Set Aside" money, from the federal SRF Grant to implement the federal Safe Drinking Water Act and its attendant programs. This allowance, as stated in the federal Safe Drinking Water Programs is significantly inadequate. Interestingly, there is a parallel SRF program to fund waste water projects. However, on the wastewater side, there is not a parallel set aside provision in their enabling legislation.

This nuance was overlooked last year when EPA passed the majority of its budget cut onto the states. Further they focused the majority of the pass through cut on the two SRF programs (drinking water and wastewater), thinking that it would not impact state programs. The assumption was true for the wastewater program, but was harmful to drinking water programs, because set asides are based on a percentage of the SRF grant. Consequently, with a lower grant award, the same percentage of a lower dollar amount yields a cut in operating funds for drinking water programs.

The obvious remedy to resolve and improve the findings of the audit is to expand more resources, and hire more staff to address the program deficiencies. Rather than increased funding, it is more likely that we will see cuts in the federal expenditure which would hamper the Division's ability to carry out its mission. There are two issues that will come into play, nationally, as states attempt to retain primacy: 1) the reluctance of EPA to actually take primacy back, because they fully understand what's involved to fully implement the various rules and requirements, and 2) we in Utah are better off than other states relative to our ability to retain primacy.

"EPA has only authorized half of our State Revolving Fund (SRF) Loan money. This means that less money is available for building infrastructure. "



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Director's Report Conclusion-



"The Division sees the reduction of survey frequencies as a work load increase and potential efficiency lost" This is because the Division was able to weather the recent downturn in the economy without cutting staff. This was not the case with many states. Some states experienced staff reductions of significant proportions. Now those same states will have to go through that process again to accommodate federal budget cuts. These states will likely be the first to give up primacy. With selected states loosing primacy, that may be the wakeup call for congress to either reduce primacy requirements or increase funding for state drinking water programs.

On another matter, one recommendation given in the audit report to decrease the workload on the Division was to institute a five year frequency for sanitary surveys. What the recommendation did not clarify was the conditions necessary for a water system to qualify for the reduced frequency. This includes: a) the maintenance of a perfect bacteriologic monitoring and quality record between sanitary surveys and b) be an optimal performer. These elements require the Division to review up to a 5 year history of bacteriologic history, and define and track optimal performance. Both the definition and tracking scheme, of optimal performance, would need EPA approval before we could implement it. The additional scrutiny by staff is coupled with the issue of water systems going into and coming out of the reduced frequency schedule. Changing schedules would frustrate our initiative to combine water systems into logical groups to gain efficiencies by performing surveys of close by water systems sequentially to reduce travel time. Hence the Division sees the reduction of survey frequencies as a work load increase and potential efficiency lost. Consequently, we've made the decision to standardize the frequency of surveys for all water systems.

The audit report makes specific observations about our ability to adequately track compliance with the Arsenic Rule and the Lead/Copper Rule. These issues have been reported in previous program reviews by EPA and we were in process of addressing the issues during the actual performance of the audit. Specifically, we've replaced the employee that was responsible for these two rules with a new employee that has been diligently addressing past inaction by the Division and aggressively implementing these rules going forward. We anticipate that we'll have a better audit finding regarding these two rules in the future.

The audit report also cites the Division's lack of tracking and follow-up on milestones associated with enforcement actions. To address this issue, the Division hired a paraprofessional to track all milestones associated with Bilateral Compliance Agreements, Administrative Orders and Attorney General Referrals.

Conclusions: The Division is committed to retaining primacy as we are in a better position to assist water systems with compliance with the many rules. Further, the Division has and will continue to partner with the Intermountain Section of the American Water Works Association, the Rural Water Association of Utah and the local health departments in our efforts to assist. Secondly, the Division needs to take the long view in looking for sufficient resources to carry out its mission. A discussion on retaining primacy, the long view, will be a subject for a future article in the OpenLine.

Hydraulic Modeling from an Operator Perspective

Looking Beyond the Rule Requirements by Tammy North

GOVT. REGULATIONS

The hydraulic modeling rule (R309-511) has now been in effect for more than three years. Have you embraced it? Or are you one of the ones who is still pushing back or doing only what is necessary to meet the requirements? If you fall into the latter category, it is time to reevaluate and start making hydraulic modeling work for you!

Not just a regulation- utilizing modeling as a tool

The hydraulic modeling rule's purpose as stated in R309-511-1 is "to ensure that the increased water demand created by new construction will not adversely affect existing or new water users". When the Division of Drinking Water reviews plans with hydraulic modeling information, it is to ensure that this purpose is being achieved. But a hydraulic model is a very powerful tool and has the ability to go beyond Drinking Water's purpose, to accomplish the purposes of your individual water system! It is time to look beyond the regulation of hydraulic modeling and start seeing it as a tool. The majority of the work and cost associated with a hydraulic model is in building the basic model. Costs to maintain and run the model after it has been established are relatively economical. The rule requirement has established the tool for you, now it is time for you to start using it.

Scenarios where the model could help you.

A hydraulic model is simply a computer simulation of your water system. It allows you to "play" with your system to see how potential changes will affect the system without actually disrupting the system itself. There are two key benefits from a management standpoint. The model helps to save money as designs are optimized and eliminates interruption of the system through trial and error adjustments.

Below are just a few examples of potential situations where you might utilize the model beyond what is required for regulation.



-Operational Modifications- On occasion, you might want to make adjustments in your system for one reason or another. For example you might switch sources or adjust pump setting on a booster or readjust a PRV. By modeling the proposed tweaks prior to making them, you will be able to see the effects of the changes before you get the calls from users and make the necessary adjustments or notifications to avoid customer complaint.

-Simulating fire flows- Extensive fire flow testing on your system can cause disruption to the system and increased oversight (as it is usually an outside contractor connecting to your system). In some situations, it may be appropriate to utilize the fire flow results produced from the model to minimize the number of fire flow test performed on your system.

-Emergency plans- In an emergency situation, a model could help you determine how

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"There are some models that will allow you to model complex features such as energy costs "

Hydraulic Model—continued

to get water to your customers if a main transmission line is down, a source is unavailable, or there is some other issue in your system. Rather than waiting for the emergency to occur, you can be proactive and model potential situations now in anticipation of a potential emergency event in the future.

-Trouble shooting problem areas- There are often areas of a system that could use improvement either to increase pressure or flow or something else. Could the area benefit from a looped line or a new pressure zone? You can model different scenarios and possible solutions in an effort to determine how best to correct the problem areas.

-Timing of projects- You are usually aware of the projects that will need to happen as your system grows, but not necessarily the timing of the projects. Is it more important to install a new transmission line or develop a new source first? How many new connections are needed before new infrastructure is needed? A model can give you a better idea of timing and sequencing of your projects allowing you to budget and plan for the future.

-Water Quality and Energy Costs- Some of the more complicated systems might be concerned and want the ability to monitor some of the more intricate details of their systems. There are some models that will allow you to model complex features such as energy costs based on pumping demands or chlorine residuals throughout the system.

Are there scenarios that you can think of that you would like to explore with your water model? Find out what your model is capable of and utilize it to benefit the operation and planning of your system.

Insight of an operator in creating and maintaining an accurate model.

As the operator, you are in the unique position of knowing and understanding your system better than anyone else. Some of that knowledge includes insight on existing infrastructure, trouble spots, operational tweaking, and the needs of your system. You can save time, money, and potential headaches by sharing this information as well as your expectations and desires for the water model with your consultant. Identify the water system's hydraulic modeling purposes and be an active participant in the process.



-Be aware of the model that you are using. There are a lot of good software programs available. They range in cost and features. Is it important to you that your model be integrated into your GIS system or that it has complex features such as cost analysis? Who owns the software- you or your consultant? Provide input and ensure that you are getting the product that you want.

-Don't be afraid to be picky as you choose a consultant to build and maintain your model. This is an investment and you want the model built correctly. Ask questions, get recommendations and references. For some of the larger systems it might be beneficial to obtain training to better understand the model and how it works. "Knowing where you lack information will help you as you interpret the model results."

Hydraulic Model—Conclusion

-Know and understand the information that has been entered into your model. The more accurate the information input into the model, the more accurate your modeling results. Are your line sizes, type, and lengths from as-builts, GIS, or are they just an educated guess. How are you accounting for your demands- are they stepped to account for peaking and do they vary by user? Are all your sources running continuously at a steady state year round? What are your settings on the booster pumps? You might not have records to enter exact information, but knowing where you lack information will help you as you interpret the model results. You will understand where the model might be weak and where you might need to make adjustments to account for some of the inaccuracies.

-Does the model take into consideration how you run the system? Based on knowledge of the system, every operator has tricks to operate their system more efficiently. Do you pump your system at night to minimize energy peaking costs? Do you utilize different sources seasonally due to demand or water quality concerns? What modifications do you make when running the system? Some of these adjustments may need to be programed into the model.

-Provide as much information as possible to calibrate the model. Calibration of the model occurs after the system information has been input and things such as roughness coefficients on pipes are adjusted to more accurately simulate your system. Actual field data is needed in order to calibrate the model. This is usually provided in terms of fire flow tests. The more information provided the more accurate the model can be. If possible you should provide data for different operating conditions such as seasonal demands (summer irrigation use, peak hour, times when more or different sources are utilized) as well as providing tests at locations throughout the system including in different pressure zones. It is possible to have the model be inaccurate under some scenarios or at some locations, when it is not calibrated correctly.

As a system operator, you have the ability to provide the information and knowledge to obtain and use an accurate hydraulic model as a tool to improve efficiency of your system and save money.



New Division Staff

Tammy North

Tammy North joined the Division of Drinking Water in August of 2012. She graduated from the University of Utah with a B.S. in Civil Engineering in 2000. Until her move to Drinking Water, Tammy worked for an engineering consulting firm, where she had the opportunity to work on many municipal projects, including many water projects. She is a licensed professional engineer.

Tammy is excited to join the Engineering section of the Division of Drinking Water, where she will help in plan reviews. Thus far, her favorite aspect of the job is being able to help out individual water systems. Two of Tammy's favorite things to do when not working are getting lost in a good book and spending time with family.

Emily Frary

Emily Frary was raised in Provo, UT and she has five siblings. After graduating high school, she moved to Salt Lake to attend the University of Utah. Emily started working with the Rules Section in October and has helped the section with their scanning and data entry.

Emily is studying Chemistry with an emphasis in Materials Science and Engineering, and will graduate in Spring 2014. She loves the challenge that chemistry presents her with, and she hopes to pursue graduate work.

Outside of studying, Emily spends her time hiking and she is also an avid tennis player. She is President of the University of Utah's Organization of Women in Science, and Secretary of the Salt Lake Rotaract Club.







New Division Staff Continued-

Misty Tabor

Misty Tabor is the Division's new Records Manager! If you need to reach her, please call her at 801-536-4190, or reach her by email at <u>mistytabor@utah.gov</u>.

Before coming to DDW I worked for 9 years at Deseret Chemical Depot, located south of Tooele. DCD is a military base, and the mission there was to destroy a large supply of chemical weapons. The mission is complete and they are now working on closure of the chemical plant. I worked in the Document Control Center, Hazardous Waste and the Mustard Campaign Departments. We followed very stringent Army regulations, state regulations and local policies, many of them for records management. Throughout all positions I held, records management importance and standards remained the same and that was a very large

portion of my responsibilities along with all other administrative duties.

I live in Tooele with my husband of nearly ten years and our two children, our 6 year old boy Loren and 4 year old girl Meah. I enjoy being outdoors with my family, camping, jogging, taking trips and I have recently found a new passion in quilting. Lucky my Grandma is an amazing quilter I am learning from the best!

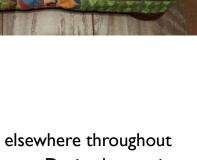
Samantha Record (Rules Secretary)

Samantha was born and raised in Utah, and although she spent time elsewhere throughout the US for the military, she will always consider this beautiful state home. During her senior

year of high school, she enlisted in the Utah Army National Guard, where she spent 6 ½ years as a Helicopter Crew Chief and two years as a Non-Commissioned Officer. When her enlistment contract came up, she decided to move on and pursue other career options. She spends her mornings working with the wonderful staff at the Division of Drinking Water, and her

afternoons working at Spoons and Spice Kitchenware in Sandy. She is currently pursuing a degree in Criminal Justice through an online military university, although she is still not sure what she wants to be when she grows up. She loves spending her free time cooking and doing everything DIY- from sewing and crafting to building things and working on cars. She currently lives in sandy with her husband and three beautiful step-children.









Data, Data Everywhere and not a single result in the Database! By Patti Fauver

I know it is frustrating when you think you have done everything right and then BAM! - here comes the nasty letter from the Division (most with my signature). So what's the deal, why can't we get it right??

Well – for starters the Division does get it right most of the time and when we don't – most of the time it is for a few reasons which are easily correctable. This article is intended to provide a list of mistakes which we believe cause the problems and might provide a path forward to

solving the lost data problems and minimize frustration both for you (the system) and us (the Division). First – when I state we get it right most of the time, I believe this because we receive approximately 85,000 sample analyses each year and most of them get entered correctly and satisfy the sample schedule in the main database (SDWIS). I know this does not offer any consolation

when the data going astray happens to be yours! So on to the list.

The most common compliance issues from the Rules Section perspective are:

Follow-up on total coliform positive routine samples

Nitrate Monitoring Deficiency Corrections Sample Windows Sample Location Lab Issues Lost Data Sample Labeling

Follow-up on total coliform positive routine samples – Some of the requirements date back over 20 years and some have been effective for just over 3 years. Anytime one of the routinely scheduled bacteriological (total coliform) sample is positive – the following steps must be conducted by all systems:

Analyze for E. Coli (done by lab)

Collect 3 or 4 REPEAT samples at the correct locations (upstream, downstream, original site and 4th sample if needed)

Collect a TRIGGERED SOURCE SAMPLE for each groundwater source in operation at the time of the positive sample

The next month (not quarter) ALL systems MUST collect at least 5 samples – In most cases systems will be collecting ADDITIONAL samples to add up to the total of 5 ROUTINE samples.

Later we will discuss sample labeling, but, already you can see a challenge in making sure all the follow-up samples with just the Total Coliform Rule need to be labeled correctly as to the type of sample. My best advice if you have a positive TCR sample is: CALL US – Janet Lee at 801-536-0088, John Oakeson at 801-536-0057 or Elden Olsen at 801-536-4097 – these individuals can explain the samples required as well as how to label the samples

Nitrate Monitoring – This still confuses me – as it is a very simple monitoring requirement!

*Every System (Community, Non-transient non-community, Transient non-community)

*Every Source (groundwater or surface water)

*EVERY YEAR

-No reductions

-No exceptions

Two things here – forgetting to collect the sample and sample labeling cause the biggest problems. BEST ADVICE: Sample the source for nitrate as soon as you turn it on if it is seasonal or place an appointment on your calendar every year to collect the samples due – the yearly list will ALWAYS include nitrate. For sample labeling – the requirement is for the source never the distribution system, therefore, the sample label should always be a source or sample station code. See Sample Labeling handout for Nitrate samples.

Deficiency Corrections – I think the frustration and confusion with this item is the lack of understanding on how once you have made the physical corrections – how the deficiency and its associated points are removed from your IPS report. Without taking a whole page to describe how the SDWIS database works (a challenge even for me!) – The short answer is YOU need to send a correction form into the Division with documentation of the fix in ALL cases. Even if your system just had a sanitary survey.

The IPS correction form is available on the Division's website, you need to fill it out with the deficiency correction information and appropriate documentation. Once the Division receives the form, either the documentation will be sufficient or staff will call for more information. Although it is fairly standard to send the updated IPS report out after corrections are noted in SDWIS - I suggest you actually request an update be sent as well – OR- make use of the Online Reports on our website to verify corrections were completed.

Sample Windows and Sample Locations - Every major water quality rule has monitoring requirements, some are



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very specific on WHEN samples are collected, others WHERE samples are collected and some have very specific requirements on BOTH. Some of the requirements are meant to be representative of your distribution system as a whole while others are meant to look at worst case conditions. Please understand if the rule language make specific requirements – samples not meeting the requirements will not be used for meeting the compliance requirements.

*Sample Windows

-Lead & Copper Rule - June through September

-Disinfection By-products – warmest calendar month

-Source Grouping - when all sources in the point-of-entry group are in operation

*Sample Locations

-Highest risk sites

#Lead & Copper rule

#Disinfection By-products

#Asbestos

-Representative of distribution system

#Total Coliform rule



The three biggest issues here are improper labeling, collecting at the wrong location and in the wrong window of time. In order to solve this – samples which have a sample window associated with them – the Monitoring Schedule report displays the proper window of time under the "Next Sample Due" column. Please refer to the report to guide your sample collection efforts. As far as the wrong location and sample labeling they probably are the same issue and refer to the Sample Labeling section to follow.

to ensure they are entered properly in the database.

"Lab" Issues –All the sample requirement also come with acceptable analytical method requirements and ultimately laboratory approval criteria. Your job is to look at our list of certified labs (on the website) and pick a laboratory which is certified to conduct the type of analysis your need. Other than conducting the analysis using the approved methods – we have no regulations for laboratories, even this requirement is implemented by the Department of Health for us. In the past some labs have had a problem meeting detection levels specified in the rules but this has not occurred lately.

Issues more often occur with systems believing the lab will send data to the Division and the Division not receiving data. Some labs do send lots of data and some do not send much. If you want direct reporting of data – sign appropriate authorization for the lab to share the data with us. Unless the lab has authorization the will not send the data to us. The laboratory you use is your choice – if you do not feel you are getting the service you deserve – shop for an approved lab that will provide that service.

"Lost" Data – With the huge volume of data the Division receives it is unlikely that we will ever not lose some data somewhere – hopefully we can minimize the occurrence and impact of the data loss. In responding to concerns over repeated submittal of data, here are the most common issues found:

*Improper Sample Labeling (Discussed in detail below)

-Nitrates as distribution samples 200+ samples lost in SDWIS in 2012

-TCR samples - REPEATS, TRIGGERED SOURCE, ADDITIONAL ROUTINES

*Electronic Reporting – This is both a blessing and a curse – we love receiving data files from the lab which can automatically transfer data into SDWIS – we would not be able to keep up otherwise. However, in receiving data in this manner there is no longer a person screening the analysis – just a bunch of data separated by commas. It is imperative for systems to properly label their samples (see nitrate issue above).

*Email Submissions – For data which does not come in a lab file or other information required to be reported to the Division, such as the quarterly disinfection report, the monthly surface water report, the Consumer Confidence report, etc – we appreciate you sending electronic copies to DDWReports@utah.gov. This is the fastest way to get data to us – only caveat is below

*Sending to the Wrong Person – The Rules Section implements 15 major rule packages with 7 different rule managers. In the monitoring requirements we have schedules that range from daily requirements reported monthly to sample collected every 9 years. It is important to send the correct data to the correct person.



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-If you are using DDWReports@utah.gov, staff review the emails daily and forward them to the correct staff for you – we ask where possible to send a separate email for each rule and list the type of data in the subject line (i.e., CCR or DBP Quarterly report or Month-ly treatment or VOC or Lead& Copper, etc.) This will help with keeping the flow of data correct.

-If you still mail the samples to us – please indicate somehow different sets of data. For example – paper clip the Lead and Copper samples together and the TCR samples separately.

Sample Labeling – ALL SAMPLES SUBMITTED WILL NEED TO BE LABELED WITH 3 CODES! If samples are not labeled correctly, especially with electronic data transfers, they will not credit or satisfy the required sample schedules in SDWIS and will generate violation letters. The first table shows the generic labels based on sample type and location of the sample event. The second is a copy of part of monitoring schedule which illustrates the sample labels printed unique for your system and also alerts you to the sample window where sample need to be collected inside a specific time frame.

*Water System Number UTAH _ _ _ _

-Facility ID

-Distribution System samples - DS001

*Source or Sample Station - WS _ _ _ or SS _ _ _ or TP _ _ _

*Sample Point ID

-Distribution System samples - DS001 or see DBP system specific list

-Source or Sample Station - WS ____ or SS ____ or TP ____

Type of Sample	Water System ID	Facility ID#	Sample Point ID#
TCR	UTAH	D\$001	D\$001
Lead & Copper	UTAH	DS001	D\$001
Nitrate Nitrite Volatile Organics SOCs Sulfate Radionuclides Radium 228 Uranium	UTAH	TP Or WS WS	TP (same as facility) Or WS(same as facility) Or WS(same as facility)
Disinfection ByProducts	UTAH	D\$001	MD or MR See System List
Carbon, Total (TOC)	UTAH	See System Specific List or Call DDW	See System Specific List or Call DDW

Sample Monitoring Schedule:

	Sample	Label				Sample Wi
			\mathcal{N}			/
ddition	al Monitoring Requirements					/
Facility ID	Facility Name Analyte Name	Sample Count	Sample Type	Sample Frequency	Last Sample	Next Sample Between
DS001	UTAH20005 DISTRIBUTION SYSTEM		Activity Sta	tus: A Samp	le Label: UTAH2000	05 DS001
	ASBESTOS	1	Routine	9Y	09/30/2003	01/01/2011-12/31/2019
	Lead & Copper Disinfection Byproducts	10 2	Routine Routine	3 Years 3 Years	2011 09/21/2010	06/01-09/30 2014 07/01-09/30 2013
SS290	GROUP SOURCE SAMPLING STATION SS290)	Activity Sta	tus: A Samp	le Label: UTAH2000	05 SS290 SS290
	NITRATE	1	Routine	Year	09/19/2012	01/01/2013-12/31/2013
	Inorg & Metals Sodium,Sulfate,TDS Volatile Organics	1 1 1	Routine Routine Routine	3 Years 3 Years 6 Years	09/21/2010 09/21/2010 09/19/2012	01/01/2011-12/31/2013 01/01/2011-12/31/2013 01/01/2014-12/31/2019
	Radionuclides	1	Routine	6 Years	09/19/2012	01/01/2014-12/31/2019

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Division Initiatives – Following are some of the Initiatives the Division has taken to improve communication and data transfer.

*Updates to the Monitoring Schedule (see above)

*Division Mailings

-At least 2 times per Year

*On-line Reports at drinkingwater.utah.gov

*DDWReports@utah.gov – one stop reporting email address checked daily

*Lab Communication – working with all labs to improve or

initiate electronic transfer of data

*Web based TCR application for small bacteriological labs to implement electronic reporting of TCR data

Steps YOU can take -

*PROPER SAMPLE LABELING

*Sample during correct sample window

*Authorize your lab to send your routine sample data to the Division

*If you Email us data and information

-Separate different data to different emails

-State the type of data in the subject line

*Use the On-line Reports

-Call us if problems found

*CALL US with any questions

*Don't take a violation letter personally

-If you have the data – DDW is happy to retract the violation

-Let's talk

*Follow-up with us during the year. The best time to make sure your data is where it needs to be is one to two months after you have sampled. Go to the online reports and look at your monitoring schedule and IPS to ensure your updates have been made, or contact us directly.

Drinking Water Survey/Questionnaire Contest Winners

The Division of Drinking water developed a questionnaire to get information from the water systems to help us help the water systems and provide better service to them. We had a drawing to encourage participation in the process. Here are the winners of our drawing:

Leland R. Howlett Scott Hill Mike Wormwood Adam Spackman David Bunker

Winners at the RWAU Conference Everett Taylor Andrew Ormsom Mark Whitney



Sanitary Survey Kaizen by Renette Anderson

DEQ is using the Lean/Six Sigma process to become more efficient and transparent. This powerful business management strategy has been used by industry for years to eliminate waste and improve the bottom line.

A three day "Kaizen" event has held in July 31-August 2, 2012 at the Department of Environmental Quality to take an "in-depth" look at the sanitary survey process from the perspective of stakeholders involved in the process to objectively look at whether the work could be done more efficiently. Participants represented water system operators, local health departments, DEQ district engineers, the Rural Water Association, and the Division of Drinking Water. The two water system representatives are Mike Carlson and Scott Hill.

On the first day, the group mapped out the "As Is" process – the way it was currently being done - to identify any bottlenecks, inefficiencies, and redundancies. Using that information, the second day was devoted to developing a "To Be" process. Finally, on the last day, focus turned to the steps to be taken over the coming months to implement the "To Be" process.

Discussions were lively at times as each group member both advocated for his or her concerns then worked to listen and understand a perspective or experience that was different. In the end, the group was able to come to consensus in its recommendations to Division Director Ken Bousfield.

Since August, the Kaizen group has continued to meet at least monthly to implement the recommendations:

Increase Process Efficiencies:

Established a formal policy for grouping (bundling) public water systems for survey purposes. Bundling con-

siders such things as ownership and systems that feed in together Established a rotation/assignment policy which ensures that multiple disciplines (eyes) look at all facilities

over time.

Developed a policy to more effectively deal with incomplete surveys. This will be implemented in CY2013. Currently developing measurements to more consistently track – and troubleshoot where needed – the

Sanitary Survey process.

Ensure Surveyor Competencies:

Revamping training requirements - including classroom, field experience, and mentoring - to ensure surveyor competencies.

Implementing a process to measure surveyor effectiveness to include feedback from the operators as well as other internal measures.

Better Allocate Resources:

Developing a strategy to improve resource allocations, including people and costs.

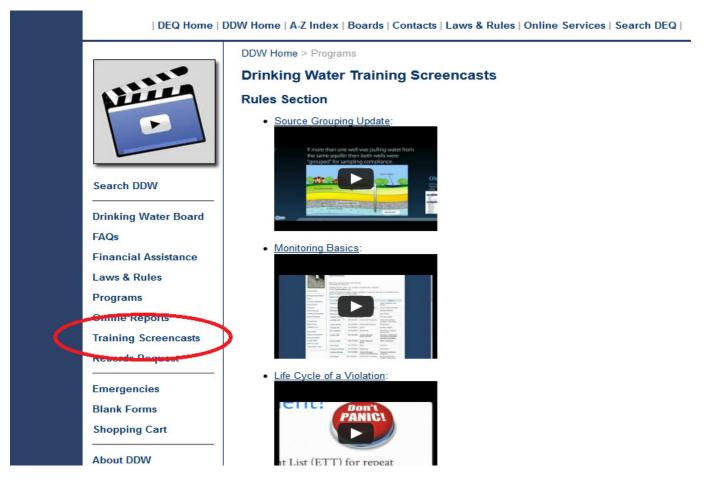
Determined an average time required to complete a sanitary survey, based on system type. During the upcoming year, several volunteers will track their time on all surveys performed during the year. This tracking will include travel time as well as dealing with site specific issues that may come up during the survey. The total time for the surveys performed by the volunteers will be compared to the calculated time as noted in the above bullet. From these comparisons between the calculated and the actual times an average "complexity" value will be determined. The calculated value for each water system will by multiplied by the complexity factor to arrive at a projected survey time for each water system.

New Online Training at DDW by Rachael Cassady

The Division of Drinking Water (DDW) is excited to announce that we now have video training presentations on our website. These training videos are 30 minutes or less, and they cover topics from our Rules Section: the life cycle of a violation, monitoring schedule basics, and an update on our source groupings. If you are new to the water industry, training a new employee with your water system, or if you just have questions about our programs then watching these online screencasts can help.

We do not offer CEU credit for the time you spend watching our online training videos unless they are included in a training seminar that you are attending. The purpose of these videos is to familiarize operators with the specifics of how our programs are implemented at DDW. We hope you will benefit from this new section of our website.

To get to our new online training screencasts go to <u>www.drinkingwater.utah.gov</u>. From here click on the Training Screencasts link on the left hand side bar:



This will take you to our videos. Currently we only have three training screencasts, but in 2013 year we will expand it to many more that will cover every section of our programs. Please take a look at the videos we have now and think about the topics that you would like to see in this new section. Send us your feedback and ideas at <u>rcassady@utah.gov</u>, or 801-536-4467, so we can make this suit your needs. We are excited about this new avenue of teaching and communicating with you.

Your IPS Report Is Important to You by John Oakeson

The Division of Drinking Water regulates all public drinking water systems in the State of Utah. A public drinking water system is defined as a system that has 15 service connections **and/or** serves at least 25 people for 60 days. Systems are classified as community, non-transient non- community, or non- community. A community system is a residential system operated year around, where customers have long term exposure to the drinking water. Community systems have the most stringent sampling requirements. A non-community non-transient system serves the same people for at least 6 months. Examples include industry, schools and churches. A non-community system serves different people for a short term exposure. These systems have the least stringent sampling requirements. There are currently 468 community systems, 69 non-transient non-community, and 467 non-community systems in Utah.

The Improvement Priority System Rule - R309-400, typically refer to as the IPS rule, has been in effect for a number of years. The IPS rule is a measurement tool the Division uses to provide a concise indication of a drinking water system's condition and performance. The IPS report evaluates a number of areas including: water quality, monitoring, public notification, physical deficiencies, operator certification, cross-connection control, drinking water source protection, administrative issues as well as reporting and record maintenance issues.

Demerit points are assessed for deficiencies identified in each of the areas evaluated. The goal is for a water system to have the least amount of IPS points possible. In other words, the more points a system has, the worse off it is. The number of points for each deficiency, monitoring violation, MCL exceedance, etc. is based on the threat to the public health. A system missing a smooth nosed sample tap on a well poses little health risk and would be assessed I IPS point. On the other hand a system using an unapproved water source would be assessed 150 IPS points. A confirmed fecal contamination would result in 50 IPS points. For an approved rating a system must have less than the assigned threshold points. The community system threshold is 150 points; a non-transient non-community system must not exceed 120 points; a non-community system cannot exceed 100 points. A water system is assigned one of the following ratings based on their IPS score. An **approved** rating indicates that the public water system (PWS) is operating in substantial compliance with the drinking water rules. A not approved rating indicates that the PWS does not fully comply with the drinking water rules as measured by the IPS score. There are a number of systems that exceed the established threshold but are working with the Division to come into compliance with the drinking water rules. These systems can receive a corrective action rating if they enter into a corrective action plan with the Division. The corrective action plan identifies the problems and the actions the system must take to address issues noted on the IPS report. The plan also establishes timelines the system must adhere to while addressing the problem (s). As long as a system complies with the established terms and timelines outlined in the compliance agreement, they will remain at corrective action. Once they complete the terms of the agreement they can become an approved system as long as their IPS points are below the threshold. Not approved systems that drop below their respective threshold still having significant deficiencies remaining on their IPS report are not typically changed to an approved status.

IPS points are added for exceeding maximum contaminant levels (MCLs) as identified in R309-200-5 (Primary Drinking Water Standards). These standards include: inorganics and metals, lead and copper, organics, radionuclides, microbiological and disinfection by-products. Failure to meet monitoring requirements set forth in R309-205, 210 and 215 will also result in IPS points. We see a number of common violation problems in this area. One of the most common violations is failure to complete the annual nitrate sampling requirement. Systems are required to collect a nitrate sample from every source in use every year. Some systems are required to collect quarterly nitrate samples. Many systems receive monitoring violations for failure to collect the other source and distribution system samples. The Division provides monitoring schedules to assist a system with keeping on top of required samples. Division staff often hears the complaint that a system has sent in sample results a number of times. They want to know why the Division can't keep things straight. In almost all cases we find that the water system failed to label the samples correctly. All samples must have your public water system (PWS) number (UTAH, followed by the 5 digit number assigned to each specific system), the sample facility identification and specific sample site identified. All distribution system samples are identified as DS001. If you are not receiving credit for microbiological or lead and copper sample analysis, chances are you are not using this sample site ID number. If you are not receiving credit for source samples you are most likely not using the correct sample site ID. Source samples are identified by the PWS number, system facility ID number WS001, WS002 etc., or a group sample source number assigned to the system by DDW. If you have questions regarding labeling of disinfection by-product samples please contact Brad Holdaway at 801-536-0063. Groundwater Triggered source samples should be labeled with the specific source ID (WSXXX) or GWR triggered source group sample site number, beginning with SSG, to receive proper credit. Label these samples as a TG sample. Microbiological monitoring violations are assessed for: failure to collect required monthly or quarterly samples, failure to collect the correct number of samples, failure to collect repeat samples, and for systems taking 5 or less monthly or

IPS continued

quarterly samples - failure to collect the appropriate number of additional samples the following month, or failure to collect triggered source samples when required. IPS points are also assessed for associated public notice violations.

Source samples, disinfection by-product and lead /copper monitoring violation points are resolved once the Division receives the appropriate source samples. The same applies to a ground water triggered source sample. Microbiological sample violations are different. Points assessed for microbiological violations remain in effect for 12 consecutive months or 4 consecutive quarters, whichever applies, before rolling off of your IPS report. Public notice points are resolved when a system sends documentation of their public notice to the Division.

IPS points are assessed for physical facility deficiencies. In most cases these deficiencies are added to the IPS report as a result of physical deficiencies identified during a sanitary survey. In a few cases deficiency points may be added as a result of the Division becoming aware of deficiency or if an administrative action is taken. The number of IPS points assessed for the physical deficiency is based on the seriousness of the deficiency. Public health based deficiencies are assessed a higher number of points than those that don't directly affect public health. Unaddressed significant deficiencies will result in a treatment technique violation which also has associated IPS points.

IPS points for physical deficiencies are resolved once the Division receives official notice that the deficiencies have been corrected. The notice must include some type of physical documentation such as an email, pictures, completed IPS Deficiency Correction Notice, etc. Division staff can't resolve a deficiency based on a telephone call. DDW has requested that any person conducting a sanitary survey report all corrected deficiencies identified on the IPS report to the Division as a part of their completed sanitary survey report. Now that you know about the Improvement Priority System Rule and IPS points, how do the IPS points actually affect you? Each Public Drinking Water System has an IPS score. Some systems actually have a negative score because of few or no deficiencies in addition to having credit points issued. Other systems have several hundred points. One system currently exceeds 900 points. The Division conducts guarterly compliance meetings to discuss system status and enforcement actions. One list discussed is the "Worst 25 List". This is a list of the 25 Utah water systems with the highest IPS scores. These systems are targeted for specific enforcement action by the Division and/or USEPA. During the quarterly Division compliance meeting decisions are made relating the approval rating of a number of a system. A currently not approved system may be taken to an approved rating based on several criteria including their IPS score. Some systems may be downgraded from approved to not approved based on their IPS score. Systems that have a high IPS score who have entered into a corrective action plan with the Division to achieve compliance are given a corrective action rating. A system with a not approved rating not only has that stigma. There are also economic consequences. Many lending agencies will not issue building loans, etc. if the water system in the area is not approved. Please feel free to contact John Oakeson, IPS Rule Manager, at joakeson@utah.gor or 801-536-0057 if you have questions relating to the Improvement Priority System Rule.

Exam Validation Workshop by Kim Dyches

On July 18, 2012 an Exam Validation Workshop was held at the DEQ offices to validate the existing questions in the exam question banks. Operators from several agencies were involved in the review. Steve Blake and Ron Kidd from Jordan Valley Water Conservancy District participated, Blaine Dietrich from Bluffdale City, Scott Anderson from Woods Cross, Bart Simons from Provo City, Rob Jaterka from Magna Water, Keith Hanson from Salt Lake County Service Area #3, Gary Siddoway from Kamas, Jeff Grimsdell from Salt Lake Public Utilities, Jon Jeffries and Darel Gagon from Metropolitan Water District of Salt Lake and Sandy, and Drinking Water staff participated.

Approximately 26 new questions were added to the six different banks. All questions involving new rules will be placed in the exams one year after the rule goes into effect. This gives the trainers time to train the operators and gives the operators time to get familiar with the new rule.

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BACKFLOW TEC		ICATION / F Schedule	RECERTIFICATION	COURSE
		2013		
Rural Water Association of Utah 76 East Red Pine Alpine, Utah 84004 Call: (801) 756-5123 Register Online:	Class II Tester Certifica Sep 16-20, 2013 Nov 18-22, 2013 Class I Certification	Utah Co Ogden, UT	Class II Tester Re-certific Sep 9-11, 2013 Nov 13-15, 2013 Nov 20-22, 2013 Class I Re-Certification Dec 3-5, 2013	Utah Co Ogden, UT Ogden, UT
www.rwau.net/training.html	Dec 10-13, 2013	Ogden, UT		Ogden, UT
Backflow Training Services 2071 West Byron Circle West Valley City UT 84119 Call to Register: (801) 554-6052 Pay Online: www.backflowtrainingservices. com	Class II Tester Certifica Mar 18-22, 2013 May 13-17, 2013 Aug 12-16, 2013 Dec 16-20, 2013	tion Class:	Class II Tester Re-certific Mar 20-22, 2013 May 15-17, 2013 Aug 14-16, 2013 Dec 18-20, 2013	ation Class:
Location: Salt Lake Community College Miller Campus 9750 South 300 West Sandy UT	Class I Certification Mar 19-22, 2013 May 14-17, 2013 Aug 13-16, 2013 Dec 17-20, 2013		Class I Re-Certification Mar 20-22, 2013 May 15-17, 2013 Aug 14-16, 2013 Dec 18-20, 2013	

2013 Water Operator Exam Schedule

April 11, 2013 at 16 exam sites around the State. See the exam application for locations. The

exam application deadline for this exam is March 21, 2013.

August 29, 2013 at the Rural Water Fall Conference. Exam applications are due by August 8, 2013. This at the Rural Water Association of Utah's Northern Conference. Contact them by

calling 801-756-5123 or the website is http://www.rwau.net November 7, 2013 at 16 exam sites around the State. See the exam application for locations.

The exam application deadline for this exam is October 17, 2013.

Online exams can be scheduled by calling the Rural Water Association of Utah at: 801-756-5123.

For training and exam dates: visit or training calendar at:

http://www.calendarwiz.com/calendars/calendar.php?crd=uwwtccal

Stage 2 DBP Rule for Small Systems

by Brad Holdaway



"Labeling your

samples

correctly so

they get

recognized in

the state data

base "

Hello water system operators. Where has the time gone? The Stage 2 rule is wrapping up for Schedule I and 2 systems (systems over 50,000 population) and begins for schedule 3 and 4 systems (populations less than 50,000) October 1 st of this year. Consecutive systems or systems that buy water from another wholesaler are tied to the schedule of the largest system in their water system network.

This rule affects systems in different ways depending on factors such as if your system is ground water or surface water, your system population, if your system is a consecutive system, etc. It can be confusing! A link to help you out is located under the "Quick Reference Guide" located on our website drinkingwater.utah.gov, under "Blank Forms" under the "Disinfection Byproducts" section about 1/3 down the page.

The things you need to know:

I) Your system schedule

- 2) Are you a consecutive system
- 3) What is your system population
- 4) If your system is surface water or ground water
- 5) our sample plan and sampling start date (October I, 2013)
- 6) How many samples do you need to take
- 7) Distribution system sample locations



Labeling your samples correctly so they get recog-

nized in the state data base

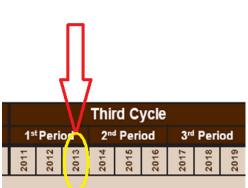
Rural Water is hosting several trainings around the state where DDW personnel will help you answer these questions and more. Also, please feel free to contact me. I am often out of the office and the best way to contact me is by email, bholdaway@utah.gov. As always thanks for the safe and high quality drinking water you provide in this wonderful state of Utah!

2013 is the End of a Sampling Period by Rachael Cassady



It is time to check your monitoring schedule and plan now to get your yearly and every three year samples done as soon as possible. In 2009 the Division of

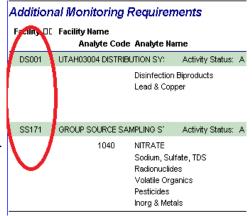
Drinking Water (DDW) adopted EPA's standardized monitoring framework. This means that any chemical samples due yearly and every three years are due by December 31, 2013. Nearly all public water systems in the State of Utah have chemical samples due every year and every three years. Chemical samples refer to sulfate, inorganics and metals, VOCs, pesticides, sodium/sulfate/TDS, and radionuclides. It does not include lead and copper or disinfection byproducts.



In order not to overwhelm the laboratories at the end of the year it is important to call your certified lab and schedule your chemical samples now. To schedule your sampling you first need a current copy of your monitoring schedule. You can get that by going to the Online Reports link at <u>www.drinkingwater.utah.gov</u>, or you can call DDW at 801-536-4200 and request a copy. On the right hand side of the Additional Monitoring Requirements section look for the Next Sample Due Between dates. If you see a yearly or once every three year sample due by December 31, 2013 you can schedule that sample to be taken now. Call your certified laboratory and arrange to have the sampling done. If you have questions about your monitoring schedule please contact Rachael Cassady at rcas-

sady@utah.gov, or 801-536-4467.

As you take your samples be careful when you fill out the laboratory chain of custody form. That form has a spot on it called Sampling Point or Facility Point. This is where you must clearly put the water system facility number. If this number is not correct on the form we will not receive your data electronically from the lab, and you will receive a violation notice for failure to sample. Your water system facility numbers are found on your monitoring schedule



under the Water System Facility column. In this picture the facility code for nitrate, sodium/sulfate/TDS, radionuclides, Volatile Organics (VOCs), pesticides and inorganics and metals is SS171.

After you have taken your required samples and received the results from the lab it is time to check in with DDW to make sure we have a copy of the results. It is always a good idea to contact us before the sampling cycle is over to make sure we have copies of all your data. Mark on your calendar to get another updated copy of your monitoring schedule before December 31, 2013 to be certain everything is recorded correctly.

"It is important to call your certified lab and schedule your chemical samples now"



Sampling- continued

We are required by EPA to calculate violations for failure to sample in mid-January of every year. In January 2014 we will be determining violations for failure to sample from 2013. Because this happens so soon after the December 31, 2013 deadline, it is extremely important that you take those yearly and every three year samples now. Then we can avoid samples taken in November or December with results that do not make it to DDW in time for the January violation calculation.



If at any point you have questions about finding a current copy of your monitoring schedule, contacting your lab, filling out the chain of custody form, and following up with your updated schedule please contact Rachael Cassady at rcas-

sady@utah.gov, or 801-436-4467. We would much rather help you out during this process than send you a violation notice. Violations for failure to monitor are something we like to avoid. So please call or email with your questions. We are here to help you meet these requirements and prevent violations.

"Violations for failure to monitor are something we like to avoid"

Online Exams a Success by Kim Dyches

The Division of Drinking Water in partnership with the Rural Water Association of Utah has been administering the online exams for a little over a year now. So far there have been over 165 exams administered and the number continues to increase. The online exams have been a big success and the operators have been enjoying the benefits of the online process.



The exam overall process is much like the paper exams. Like the paper exams, you still need to have someone proctor the exam, show photo ID, fill out the appropriate forms, and pay the appropriate fees. However, unlike the paper exams there is no waiting to hear whether or not you passed the exam. Once you submit the exam, you get an immediate score, plus you can print out a temporary certificate to take back to your supervisor to show you passed. You will still get scratch paper to use to write down your math equations etc. We encourage you to bring a calculator, however there is a calculator built into the exam program that you can use.

The exams cost \$120, the extra \$20 is for administering the exam and the security. You can schedule an online exam by phoning the Rural Water Association of Utah at 801-756-5123. If you have questions you can call the afore mentioned phone number or Kim Dyches at 801-536-4202. You can also e-mail Kim at <u>kdyches@utah.gov</u>.



Open Line

Page 22

New Credentialing ID's

by Dale Pierson, Executive Director Rural Water Association of Utah



Utah has long needed credentials for water and wastewater personnel so that they can be identified in emergency situations



Imagine the following scenario:

A huge rainstorm coupled with spring snowmelt has caused rivers, streams and

formerly dry washes to overtop their banks causing massive erosion. The erosive action has caused water and sewer lines in proximity to the water courses to be washed away. Valves are covered with mud and debris. Water tanks are draining from water gushing out of broken mains and raw sewage is flowing into the streams adding to the already hazardous situation. Broken gas lines are providing the potential for fires to break out and there will be no water available with which to fight them. Roads and highways into the area have been closed down by law enforcement to prevent people from entering a

dangerous area and to stem any possibility of looting. Affected communities don't have enough personnel to deal with all the emergencies and have called on their neighboring communities, the Rural Water Association of Utah (RWAU) and UTWARN for assistance.

The assistance is there and ready to go to work – right on the edge of the disaster area – unable to get past law enforcement officers because they cannot identify themselves as utility workers qualified to be in the area and able to help with the disaster recovery....

Utah has long needed credentials for water and wastewater personnel so that they can be identified in emergency situations in their communities and state wide. Many water systems still do not have identification for their employees. The Division of Drinking Water, UTWARN and RWAU have worked on this problem for a number of years. A solution to the problem has been difficult due to several issues that arise with conflicting needs from various state and federal agencies. Recently, we all stood back, took a look at the situation and decided to make the issue as simple as possible by providing water and wastewater entities with the opportunity to issue their employees with an identification that will be recognized by all other water and wastewater service entities in the state. By taking the issuance of the IDs to the local level most of the interagency concerns go away. If in the future a bigger, better means of identification becomes available we can use it, but in the meantime we can fill the need in a simple easy manner.

So, here's how it will work:

*RWAU has purchased the equipment to make photo ID cards. The cost per card will be \$12.00.

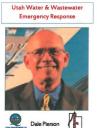
*All ID cards will be driver license size and will be made so they can either be carried in a wallet or hung by a lanyard.

*All ID cards will look the same except for an entity specific logo. This will enable the ID to be recognized state wide.

Open Line

New Credentialing ID's-continued

Badge Front



Rural Water Association of Utah 76 Red Pine Drive. Alpine, UT 84004 801-756-5123

Badge Back

Þ	Dale Pierson Executive Director Rural Water Association of Utah
Driver's Li	cense #
Nater Op	erator Cert #
Nater Tre	atment Cert #
Wastewat	er Collection Cert #
Wastewat	er Treatment Cert #
Cross Con	nection Cert #
ikills:	

*If the individual to which the ID is issued is wastewater or water certified, a Division of Environmental Quality (DEQ) logo will be included on the ID.

*IDs will be issued to employees by the individual City, Town, District or Company. The issuing entity will be responsible for reclaiming the ID if an employee separates from employment.

*The issuing entity will need to electronically provide RWAU with:

I. A letter stating that they wish IDs provided for the individual or individuals.

2. Passport quality photos of each individual.

- 3. A copy of the entities' logo.
- 4. Name and address of the entity.

5. Name and title of each employee that will receive an ID.

6. Driver's license number for each employee that will receive an ID.

7. Water and/or Wastewater Certification numbers along with any other licenses or certifications that the entity wishes to be listed for each individual.



8. Skills that the entity wishes listed for each individual.

*All employees of an entity may receive IDs whether they have water and/or wastewater certifications or not. Employees that are not certified may still have the need to identify themselves from time to time.

*If needed – RWAU may be able to arrange going to the entity to make the IDs.

*We anticipate also making IDs at rural water conferences.

If we can get IDs that are recognizable state wide our response will be much more rapid and the dangers and inconvenience that are experienced by systems and their cus-



Nitrate in Groundwater Project By Jim Martin

The Division of Drinking Water (DDW), Utah State University (USU), and the Utah Geological Survey (UGS) has begun a project to determine if voluntary best management practices (BMPs) can decrease the concentration of nitrate in a valley fill aquifer in northern Utah.

Background:

What is nitrate? Nitrates is a nitrogen-oxygen chemical unit which combines with various organic and inorganic compounds. Concentration of nitrate is regulated by the DDW and 10 mg/L is the allowable limit in drinking water.

Why are we concerned about nitrate? Infants less than six month of age who drink water with greater than 10 mg/L of nitrate can become seriously ill and, if untreated, may die. Symptoms of what is often called "blue baby syndrome" are shortness of breath and a bluish skin color.

Can nitrate be removed from drinking water? Yes, nitrate can be removed from drinking water through ion exchange, reverse osmosis, and electrodialysis. These methods are effective; however, they are expensive, especially when a source of drinking water, such as a well, is involved.

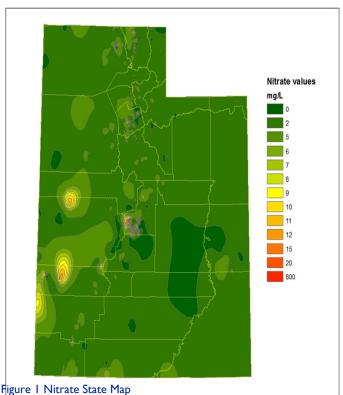
How does nitrate get into drinking water? The primary sources of nitrate are fertilizers, septic systems, animal feeding operations, and from natural geologic formations.

The Project:

The question we hope to answer with this project is can voluntary BMPs reduce the concentration of nitrate in a valley fill aquifer?

The Nitrate Project group includes Jim Martin and Mark Jensen from DDW, Paul Inkenbrandt and Janae Wallace of the UGS, and Nancy Mesner of USU.

The DDW, in coordination with the UGS, looked at all the available data regarding the concentration of nitrate in groundwater throughout Utah. These data included analyses from private wells, public drinking water wells, and other wells throughout the state over many years. The nitrate data were projected onto maps using the Nitrate Mapping Tool developed by the UGS and DDW. Nitrate project members Paul and



Map of contoured nitrate values (values of 1/1/2007).

Mark were instrumental in developing the Nitrate Mapping Tool, and Janae supplied a large portion of the data used in the project.

We reviewed the output from the Nitrate Mapping Tool for the statewide data and discussed which areas of the state would be suitable for further review. Figure I shows the statewide output from the Nitrate Mapping Tool.

After evaluating the state wide data, we narrowed the focus to three potential areas that might fit for further review. (See Figure 2.) Janae helped greatly with this effort due to her previous work on identifying the sources of nitrate in particular areas of the state, whether they were from human and/or animal, fertilizer, or natural in origin. Once these areas were identified we focused in further on which area might be the best to try instituting voluntary BMPs. We ended up choosing the Bothwell-Thatcher (BT) area. As you can see in Figure 3, the concentrations of nitrate are very high in the center to northeast portion the valley. Figure 4 shows the land use in the BT area and the elevated nitrate concentrations in the aquifer coincide with an area of irrigated farmland. From records of past activities it appears that the area of high nitrate has been converted from vegetable farming to commercial sod production. So far, the public supply wells have not been affected by the elevated nitrate in the aquifer; however, it is likely that if activities don't change they will be affected in the future.

The next step in the project is for Nancy, with the help of her assistants at USU, to contact the local farmers in the high nitrate area. Once the contacts are made they will discuss fertilizer application rates as well as irrigation rates and see if they are willing to work towards optimizing these through BMPs. Once the BMPs

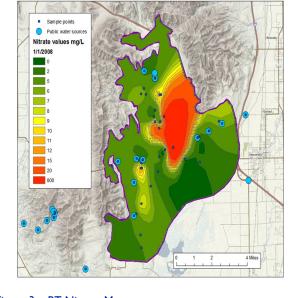


Figure 3 – BT Nitrate Map Bothwell-Thatcher project area, showing all ground-water sample points used in the Nitrate Mapping Tool, public water sources, and interpolated nitrate values.

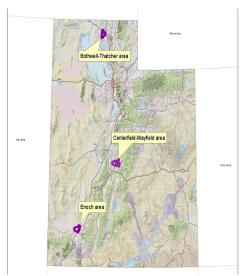


Figure 2

The three areas initially considered for best management practices (BMPs) research were the Bothwell-Thatcher area, the Centerfield-Mayfield area, and the Enoch area.

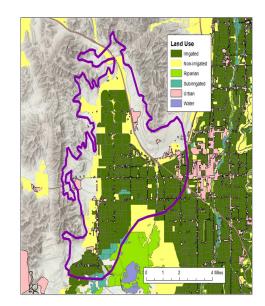


Figure 4 – BT Land Use Land use within the Bothwell-Thatcher project area.

have been instituted, future monitoring of the aquifer for nitrate concentrations will be undertaken to determine if the BMPs actually work.

Please contact Jim Martin, 801-536-4494 or by e-mail at jhmartin@utah.gov if you have any questions.

Open Line

by Dave Hansen

Standard System Reports Online

The following reports are now available online for each water system. All you need to do is go to our web page <u>www.drinkingwater.utah.gov</u> and go to <u>"Online Reports</u>" just under the Drinking Water Tap picture. Once you click on Online Reports you come to this page as you see you must register here or develop an account so you can look at your water system reports

UTAH.GOV SERVICES		My Account	Portal	Search all of Utah.gov »
www.drinking	water.utah.g	and a large state of the state	nents/	reports
If you don't have an account Register Here	Email or 1	UserName: Password:		
Forgot your password? Recover Account	Reme	ember Me? 🗌	ogin	

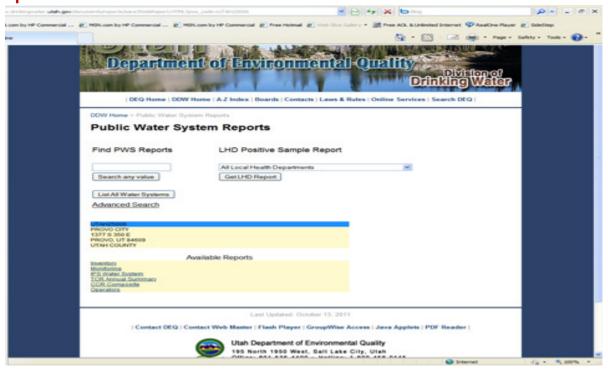
Privacy Policy | Ask for Help

After you have register you will be able to log in and see your water system reports.

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All Local Health Departments	×
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vanced Search	
Search Results	
PW3.ID • Water Justem Name • City• Stafe Reports	

Standard System Reports Online-Continued

Once you enter your public water system ID number it will pull up your water system name, city, state, and reports if you click on <u>view</u> you'll be able to see what available reports are online for you. There is the **Inventory Report, Monitoring Schedule, IPS Report, TCR Annual Summary, CCR Report, and Operators.**



Take advantage of these online reports it's a great resource and will help you manage your water system better. If you need assistance in getting onto the online reports contact Dave Hansen at 536-4203.

Open Line

2011 Operator Renewals

The following certified operators have successfully renewed their certificates by attending water-related training in the three-year period 2009-2011. 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, 2012 to December 31, 2014 to be eligible to renew in 2014.

*D=Distribution; T=Treatment; SS=Small System Distribution

Operator's Name	Cert #	Туре	of Cert Employer or Water System
Abel, Roy	25528	SS	Marble Hill Water Company
Adams, Andrew L.	08394	D-II	Jordan Valley Water Conservancy District
Adamson, Charles S.	00467	T-IV	Salt Lake City
Adkins, Marlowe C.	22100	D-II	Richmond City
Aitken, Robert J.	22101	T-IV	Central Utah Water Conservancy District
Aki, Alexander K.	97005	T-IV	Salt Lake City
Aldridge, David M.	99500	D-I	Mid-Valley Estates Water Company
Allen, Bevan H.	92100	T-IV	Holliday Water Company
Allen, Chris	99184	D-IV	Ashley Valley Water & Sewer ID
Allen, Daniel	25038	D-IV	South Jordan City
Allinson, Matt	22501	D-IV	Saratoga Springs City
Allred, Clayton R.	22502	T-IV	Park City
Allred, Darrell A.	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 B.	20066	D-IV	West Bountiful City
Anderson, Blake R.	87760	T-IV	Kearns Improvement District
Argyle, Riley M.	08264	D-I	Garden City
Arnold, Jim D.	08297	SS	Boulder Farmstead Water Company
Arnold, Michael S.	84002	D-IV	Sandy City
Astill, Danny J.	96500	D-IV	
Austill, Kevin Red	96100	D-III	American Fork City
Backman, Gus	92103	D-IV	
Backman, Randy L.	08298	D-I	Kennecott Utah Copper
Backman, Ronald E.	88501	D-IV	
Bair, Robert M.	22104	D-II	Richmond City
Baker, Matthew R.	08262	D-II ai	
Ball, William S.	08397	D-II	Richmond City
Barker, Martin D.	08299	D-IV	Herriman City
Barnes, Brian S.	99102	D-IV	Taylorsville-Bennion Improvement District
Barnes, Dennis G.	86673	D-III	Santaquin City
Barnes, E. Lee	87745	D-IV	Lehi City
Barnett, Timothy S.	96101	T-IV	Bountiful City
Barr, Steven L.	25530	D-IV	Cedar City
Baxter, Paul K.	22105	D-IV	ATK Promontory Plant
Beck, Steven M.	90502	D-IV	Jordan Valley Water Conservancy District
Belliston, Troy L.	99105	D-IV	Granger-Hunter Improvement District
Bennett, Shane D.	93103	D-I	Saratoga Springs City
Beratto, David H.	94505	D-IV	Jordan Valley Water Conservancy District
Bevins, Michael J.	93504	T-II	Water Specialist
Biasi, Aldo G.	25005	D-IV	Parowan City
Bird, M. Scott	99107	D-III	Mapleton City
Black, Rockney B.	96502	D-III	Pleasant Grove City
Blonquist, Brody B.	22003	D-I	Pine Meadow Mutual Water Company
Blymiller, Rick R.	24502	D-IV	Taylorsville-Bennion Improvement District
Bohn, Patrick C.	86054	T-IV	Salt Lake City
Boshard, David J.	93506	D-IV a	and T-IV North Fork Special Service District
Bowler, Scott L.	99108	D-IV D-II	Saint George City
Bradford, Scott E.	08300	D-II D-IV	Millville City
Brems, Jay L. Brower Bonald I	08301		American Fork City
Brewer, Ronald L. Brinkerhoff, Eric R.	88174 25042	D-IV D-IV	Price City WaterPro Inc
Brown, Albert E. Brown, Harlow E	99111 22004	D-I SS	Metropolitan Water District of SL/Sandy
Brown, Harlow F. Brown, Harold M	22006		Koosharem Town Salt Lako City
Brown, Harold M. Brown, Boss I	95106 90505	T-IV	Salt Lake City Price River Water Improvement District
Bryner, Ross L. Buck, Albert K.	90505 88765	D-IV D-IV	Price River Water Improvement District Tooele City
	00705		



Open Line

Water Specialist

T-IV

Budge, Jeffrey D.	95506
Bundy, Bronson C.	08404
Bunker, Eric W.	08405
Burrows, Merrill K.	25008
Burt, David E.	99508
Busch, Chad D.	22110
Busic, Ron L.	07126
Cain, Barry H.	91105
Callaway, Jason P.	25046
Callison, James	96105
Callister, Brian J.	97504
Cameron, Max J.	87766
Carlson, Brian W.	99113
Carney, Charles L.	96106
Carroll, Garn E.	87810
Cattelan, Frank	84223
Chadwick, Nolan J.	08406
Chalk, Mark E.	24504
Chamberlain, Steven Michael	25500
Chappel, James M.	97507
Chartier, John L.	08268
Chatwin, Maurice C.	88811
Chavez, Michael E.	08305
Cheney, Dale S.	22111
Childers, Henry F.	85003
Childs, Donald R.	84225
Christen, Ron S.	90106
Christensen, David A.	25009
Christiansen, Steven Scott	84005
Clark, Alan G.	08269
Clark, Bradley S.	24505
Clark, Dan L.	00536
Clark, Mark H.	90107
Clark, Stephen C.	08307
Crafts, Rand J.	08271
Clayburn, Scott	85015
Clements, Christopher M.	22113
Coburn, Terry R.	84325
	08308
Cole, Craig K.	
Collett, Christopher R.	08270
Cooke, Donavon	08309
Cossey, Val E.	89109
Covey, Max L.	99509
Crafts, Rand J.	08271
Crane, Kevin R.	25047
Crawford, Jon M.	21509
Creamer, J. Lynn	84443
Cummings, Ross J.	84335
Curtis, Becky Y.	08370
Dalton, Lester C.	24010
Dalton, Matthew C.	25048
Danielson, Marvin V.	22114
Davis, Hal	92109
Davis, Larry Mike	90507
Davis, Michael Lynn	
Davis, Michael Lynn	22562
Davis, Philip L.	20011
Dawdy, Timothy L.	20081
Dawson, Ron C.	98114
Day, G. Thomas	08371
Dayton, Barry D.	08313
Decker, David K.	99511
Defa, Jody J.	98115
DeJong, Frank	99118
Deras, Michelle M.	08324
Desmarais, Jason P.	22115
Devey, Daryl L.	87804

ł	D-II	Washington City
;	D-I	Daniel Domostic Municipal Water
3	SS	Bristlecone Water Improvement District
}	T-I	Canyonlands NP/Needles
)		Fruitland City
	D-IV	Saint George City
5	D-II an	
		Santaquin City
5		Water Specialist
ļ	D-IV	Jordan Valley Water Conservancy District
		Payson City
		Hill Air Force Base
,	D-IV a	
,)		nd T-IV Bountiful City
	D-I	Echo Mutual Water Company
	D-IV	Sandy City
, L	D-IV	Taylorsville-Bennion Improvement District
r)	SS	Glendale Town
,		Spanish Fork City
2		Water Specialist
,	T-II	Heber City
		Riverton City
,		nd T-IV Summit Water Distribution Company
,		
		Washington County WCD Gunnison City
)	D-III D-II	
) \	SS	Provo City Fishlake National Forest
)		Hooper Water Improvement District
		Erda Acres Water Company
)	D-II	Washington County WCD
) 7		Salt Lake City
	D-I	Weber Basin Water Conservancy District
	D-IV	Granger-Hunter Improvement District
	D-I	Intermountain Power Service Corp
)		nd T-IV Park City
5		nd T-IV Orem City
)	D-IV	
3	SS	Mtn Dell Café & Golf Course
)	SS	Greendale Water Company
,	D-I	Cedar Point Water Company
,		Jordan Valley Water Conservancy District
)	T-IV	Jordanelle Special Service District
,	D-I	Intermountain Power Service Corporation
	D-IV	Jordan Valley Water Conservancy District
)	D-IV	Kearns Improvement District
5	D-I	Nordic Mtn Water Company
)	D-III	Fillmore City
)		Goshen Town
)	T-IV	Washington City
3	D-II	Lehi City
ł	D-IV a	
)	D-IV	Ogden City
		Vernal City
-	SS	Canyon Fuel Company
	D-II	Bryce Canyon National Park
		Hill Air Force Base
ł	D-IV	Taylorsville-Bennion Improvement District
	T-I	Sorrel River Ranch
}		American Fork City
	D-IV	
5		nd T-III Timber Lakes Water SSD
3	D-IV	Kearns Improvement District
ł	T-IV	Washington County WCD
;	D-II	Sandy City
ł	D-IV	Central Utah Water Conservancy District



Open Line

DeVries, Michael J.	98511	D-IV Metropolitan Water District of SL/Sandy
Deware, Allan W.	99512	D-I Erda Acres Water Company
Dilello, Anna	98116	D-IV Sandy City
Dietrich, Blain R.	20082	D-IV Bluffdale City
Dilello, Anna	98116	D-IV Sandy City
Doolan, Timothy E.	88098	D-IV Ogden City
Dotson, Timothy M.	24545	D-IV Saint George City
Douglas, Shane W.	95110	D-IV South Ogden City
Doyle, Jason J.	22117	D-I Kennecott Utah Copper
Drummond, Brad L.	98118	D-IV Saint George City
Duggin, Michael D.	08408	D-I Daniel Municipal Water
Eggett, Brett K.	91110	T-IV Bountiful City
Ekker, Terry K.	08315	T-II Blanding City
Elliott, Lynn R.	22181	D-I Eureka Čity
Elmer, Jeffrey F.	99120	D-IV Roy City
Emerson, Rocky G.	96112	D-IV Sandy City
Engleman, Philip J.	93111	D-II and T-IV Green River City
Erickson, Kim W.	22509	T-IV Kennecott Utah Copper
Espinoza, Todd N.	99121	D-IV Ogden City
Estrada, James K.	25052	D-IV Jordan Valley Water Conservancy District
Eva, Wade A.	25053	D-III Santaquin City
Evans, Stephen C.	22510	D-IV Salt Lake City
Eyre, Jon F.	88511	T-IV Salt Lake City
Famuliner, Larry L.	21117	D-IV Farmington City
Farnsworth, Bruce A.	94517	D-IV Orem City
Farrer, Nathan L.	25537	D-IV Granger-Hunter Improvement District
Fausett, Beau B.	07221	D-II Price River Water Improvement District
Favero, Adam D.	25054	D-IV West Point City
Fenn, Kevin W.	87724	D-IV and T-IV Taylorsville-Bennion Improvement District
Fisher, Lance R.	98120	D-IV Taylorsville-Bennion Improvement District
Fjelstrom, Craig S.	08410	D-IV Kearns Improvement District
Fleming, Daniel A.	84238	D-IV and T-IV Blanding City
Fletcher, Alma D.	08411	SS Cannonville Town
Flores, Richard J.	20086	T-IV Salt Lake City
Folkman, Lee G.	00254	D-IV and T-III Weber Basin Water Conservancy District
Folkman, Mike S.	21517	T-IV Summit Water Distribution Company
Fox, Matthew J.	23095	D-IV Bona Vista Water Improvement District
Franklin, Jon R.	08412	T-IV Central Utah Water Conservancy District
Fraser, Jonathan G.	08295	D-II Honeyville City
Freeman, William L.	24014	T-II Wendover City
Fritz, Ken J.	86664	D-IV and T-IV Metropolitan Water District of SL/Sandy
Fulgham, Paul C.	88129	D-IV Tremonton City
Fuller, David W.	22118	D-IV and T-IV Summit Water Distribution Company
Fulton, Stephen C.	99518	D-IV Roy City
Gale, Troy A.	96114	T-I Clay Basin Camp
Gallegos, Michael R.	99519	D-IV Ogden City
Garbett, Fred L.	25511	SS Eureka City
Gardiner, Bruce A.	22011	SS New Harmony City
Gardner, David A.	00466	T-IV WaterPro Inc
Garrison, Raymond H.	22559	D-IV South Jordan City
Gee, Martha	89130	D-III Mountain Regional Water SSD
George, Brett A.	84759	SS Bryce Woodlands
Gines, Kayson K.	07223	D-IV Bountiful City
Gines, Phares K.	08274	D-II Woodland Mutual Water Company
Gines, Rick G.	21124	T-II Mountain Regional Water SSD
Glenn, David L.	00641	D-IV and T-IV Ivins City
Gonzales, Clarence L.	93007	D-I, D-II, T-III US Magnesium LLC
Goodell, John E.	25015	SS Best Friends Animal Society
Goodrich, Jerry W.	84246	D-III and T-III Tridell Lapoint WID
Goodwin, Bret L.	21521	D-IV Metropolitan Water District of SL/Sandy
Gossett, Collin H.	08321	D-II Hill Air Force Base
Grace, Bryan S.	22012	D-II Spanish Fork City
Grace, Cody J.	97124	D-IV Provo City
Graham, Ron P.	08276	SS Sigurd Town
Grammer, Brad C.	99522	T-IV Central Utah Water Conservancy District
Gray, Lane D.	90113	D-IV Orem City



Open Line

Green, Daniel H.	22123
Green, Duane C.	88120
Green, Kevin M.	08322
Green, Michael E.	93517
Griffiths, Derek M.	25085
Grimsdell, Jeffrey L.	92119
Grundy, Stanley R.	99523
Gubler, Douglas	93519
Gunderson, Jared D.	98123
Gunn, Dennis M.	22185
Gurske, Jeff J.	08325
Haas, Merrill A.	93521
Haile, Jeffrey L.	21524
Hall, Gary M.	98514
Hamilton, Dustin R.	08326
Hans, Paul D.	99524
Hansen, Anne K.	25512
Hansen, Douglas A.	92508
Hansen, Garrett	91115
Hansen, Kimberly A.	08374
Hansen, Steven B.	08328
Hanson, Keith J.	89510
Harold, Philip D.	99131
Hart, Robert S.	25515
Hartline, Craig A.	08415
0	
Harwood, Gary R.	84254
Haslam, John S.	90117
Hatch, David L.	84043
Hatch, Ray M.	99132
Hatch, Roger K.	00354
Henry, Amy L.	08417
Herbert, Lorin K.	23104
Hilbert, R. Jeffrey	84212
Hilbert, Richard W.	86213
Hill, Tracy L.	99134
Hills, Kim	00190
Hindes, Robert W.	99135
,	
Hirayama, Colin M.	06047
Hobbs, Travis R.	24111
Hodson, Keith D.	95120
Hodson, Paul A.	00148
,	
Hoff, Marvin T.	22128
Hoffman, Leland S.	07142
Hogan, Donald Brent	25017
Hogan, John P.	25001
Hogan, Matthew C.	25018
Holt, Wayne D.	22015
House, Brian R.	93143
Howard, Matthew L.	99528
Howell, Geoffrey B.	08375
Hoyt, Jeffrey H.	98518
Hughes, Slade R.	08277
Huish, Joe P.	25057
-	
Hunt, Jason S.	08418
Hunter, Gary S.	08278
Hunter, Rulon Keith	08330
Hunting, Terrill W.	89117
Hutcheon, A. Jack	98127
Hutchings, Larry	86684
Ipson, Blaine	23016
Ireland, Andrew P.	08279
Israelsen, Harold J.	00405
lverson, Kelby B.	23164
Jacobson, John E.	22131
James, William K.	22519
Jaques, Rodney B.	08332

23	D-II	Fruit Heights City
20	D-IV	Riverton City
22	T-IV	Weber Basin Water Conservancy District
17	D-III	Pleasant Grove City
85	D-II	Milford City
19	D-IV	Salt Lake City
23	D-IV	Jordan Valley Water Conservancy District
19	D-III	LaVerkin City
23 85	D-IV	Water Specialist
o5 25	D-IV D-II	Coalville City Sandy City
21	D-IV	Orem City
24	D-IV	Water Specialist
14	D-III	Kanab City
26	D-IV	Jordan Valley Water Conservancy District
24	T-I	Springdale Town
12	D-IV	South Jordan City
08	T-IV	Holliday Water Company
15	D-III	Castle Valley Special Service District
74	SS	Solitude Ski Resort
28	T-IV	Jordan Valley Water Conservancy District
10 31	T-IV D-I	Salt Lake County Service Area #3 Genola Town
15	SS	Pine Mountain Mutual Water Company
15	D-I	Glen Canyon NRA Bullfrog
54	D-III	Helper City
17	T-IV	Salt Lake City
43	D-IV a	nd T-IV Ashley Valley Water & Sewer ID
32	D-I	Centerville City
54	D-III	Central Utah Water Conservancy District
17	SS	Camp Roger YMCA
04	D-IV	Ogden City
12	D-IV	Jordan Valley Water Conservancy District
13	T-II	Park City
34 90	D-IV T-III	Provo City Salt Lake City
35	D-III	Clearfield City
47	D-IV	Metropolitan Water District of SL/Sandy
Π.	T-I	Garden City
20	D-III	Water Specialist
48	D-IV	Water Specialist
28	D-I	Kennecott Utah Copper
42	D-IV	Metropolitan Water District of SL/Sandy
17	SS	South Rim Water System
01	D-II	Kanosh Town
18 15	SS SS	South Rim Water System Venice Ward Church
43	D-I and	
28	D-IV	Roy City
75	T-IV	Weber Basin Water Conservancy District
18	T-I	Kane County Water Conservancy District
77	D-l	Veyo Culinary Water Association
57	T-IV	Central Utah Water Conservancy District
18	D-II	Sandy City
78	D-I	Deseret Chemical Depot
30	D-IV	Herriman City
17 27		nd T-IV Central Utah Water Conservancy District
27 84	D-IV D-III	Taylorsville-Bennion Improvement District Hurricane City
16	SS	Country Estates HOA
79	SS	Best Friends Animal Society
05	T-IV	Weber Basin Water Conservancy District
64	T-II	Diamond Ranch Academy
31	D-IV	, Midvale City
19	T-IV	Jordan Valley Water Conservancy District
32	D-IV	Layton City



Open Line

D-IV Metropolitan Water District of SL/Sandy

24113

22021

SS

Jeffries, Jonathan L.
Jeffs, Charles
Jensen, Jonathan P.
Jensen, Raymond L.
Jensen, Stewart A. Jensen, Tyler A.
Jensen, Tyler A.
Jerominski, Paul E.
Jessen, Dallan J.
Jessen, Darrow H. Jessop, Dan O.
lesson Dan O
Johnson, Brandon
Johnson, John L.
Johnson, Jordan C
Johnson, Jordan C.
Johnson, Jordan C. Johnson, Robert W.
Johnson, Russell K.
Johnson, Ryan R.
Jones, Brad L. Jones, Stephen C.
lones. Stephen C.
Jones, Tim L.
Jones, Zane T.
Jorgensen, Theodore S.
Judd, Daren W.
Juergens, John J.
Keller, Adam B.
Kendall, Bert G.
Kende, Albert S.
Kennard, Matthew M.
Kertamus, R. Joel
Kesler, Larry D.
Kimball, Richard J.
Kimball, Kichard J.
Knight, Brett J.
Kofford, Danny T.
Kopfman, William R. Krajnyak, Andrew J.
Krajnyak, Andrew J.
Lambson, Ivan G
Lambson, Ivan G.
Lance, Jeffrey C.
Lance, Jeffrey C. Larkin, Brent S.
Lance, Jeffrey C. Larkin, Brent S.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R. Massey, Flayne
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovet, G. Sullivan Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R. Massey, Flayne Matheson, Jeffery E.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Love, G. Sullivan Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R. Massey, Flayne Matheson, Jeffery E. Mathis, Rex B.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Love, G. Sullivan Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R. Massey, Flayne Matheson, Jeffery E. Mathis, Rex B.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R. Massey, Flayne Matheson, Jeffery E. Mathis, Rex B. Matthews, Howard D.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R. Massey, Flayne Matheson, Jeffery E. Mathis, Rex B. Matthews, Howard D. Matthews, Kipp M.
Lance, Jeffrey C. Larkin, Brent S. Larkins, Howard J. Larsen, Dean L. Lawson, John S. Leavitt, Judy P. Leslie, Darrell Limb, Chad M. Lindt, Trevor W. Linford, Kirt J. Lofley, Blane D. Lofley, Keith Lovato, John D. Lovato, Sam D. Love, G. Sullivan Loveland, Bruce L. Luddington, Mark W. Mabey, Brad G. MacArthur, Kyle P. MacIntosh, Wayne S. Malieitulua, Setefano A. Manglona, PedroJose A. Martin, Travis B. Martin, Van J. Mason, George R. Massey, Flayne Matheson, Jeffery E. Mathis, Rex B. Matthews, Howard D.

24113	D-IV	Metropolitan Water District of SL/Sandy
00535		nd T-IV Water Specialist
99139	D-IV	Ogden City
25020	SS	Brooklyn Tapline Company
25058	D-II	Centerfield City
08419	T-IV	Weber Basin Water Conservancy District
99141	T-IV	Park City
99530	D-I	Harmony Heights Water Company
99531	SS	Harmony Heights Water Company
96129	D-IV	Kaysville City
08420	D-II	Spanish Fork City
94525	T-II	Canyonlands NP Island in the Sky
08421	D-I	Springville City
20527	D-IV a	nd T-IV Mountain Regional Water SSD
22191	SS	Geneva Rock Products
24021	D-IV	White City
99142	D-IV	Logan City
99143	D-IV	Orem City
22212	D-IV	Saint George City
94136	D-IV	Cedar City
23006	SS	Silver Lake Company
		a second s
22213	D-IV	Saint George City
26045	D-III	Enoch City
08333	D-IV	Farmington City
06016	D-III	Moroni City
98128	D-IV	Summit Water Distribution Company
22135	D-III	Heber City
84016	D-III	Grantsville City
94528	T-I	South Jordan City
00007	D-IV	Metropolitan Water District of SL/Sandy
09459	D-IV	Smithfield City
00638	D-IV	Price River Water Improvement District
92131	D-IV a	nd T-IV Hill Air Force Base
21536	T-IV	Price River Water Improvement District
21136	T-IV	Kennecott Utah Copper
22017	D-IV	Saint George City
25022	D-IV	Saint George City
92132	D-IV	Layton City
97144	D-III	USDA Forest Service
96519	T-IV	Kearns Improvement District
08334	SS	Gunlock Special Service District
22019	SS	HAFB Lakeside Range
89516	D-IV	Beaver City
08422	D-III	Price City
20531	D-IV	Ogden City
89120	T-III	Castle Valley Special Service District
89121	D-III	Castle Valley Special Service District
08423	D-IV	North Salt Lake City
94144	D-II	Centerville City
90122	D-IV	Orem City
22522		,
	D-IV	Granger-Hunter Improvement District
08335	D-II	Moab City
25059	T-IV	Jordan Valley Water Conservancy District
24521	T-IV	Park City
24063	D-IV	Saint George City
08424	D-II	Sandy City
21043	D-II	Hill Air Force Base
08336	D-IV	West Jordan City
88845	D-IV	Summit Water Distribution Company
99538	SS	Central Iron Co Water Conservancy District
90143	D-II	Jensen Water Improvement District
99539	T-IV	Metropolitan Water District of SL/Sandy
99148	D-IV	Central Utah Water Conservancy District
08337	D-I	Kennecott Utah Copper
00760	D-IV	Sandy City

Hanna Water & Sewer Improvement District



Open Line

May, Harley
McClanahan, Richard D.
McClellan, Clark L.
McDonald, Nick J.
McEown, Jayne S. McNeely, Troy L.
Meadows, Bryan K.
Medina, Jesus
Memmott, Mark L.
Mergist II, Adam B.
Meyerhoffer, Chad L.
Middlemas, Robert K.
Millard, Bart C. Miller, Alan W.
Miller, Geoffrey A.
Miller, Hal R.
Miller, Hal R. Miller, John Bryant Miller, John Rocky
Miller, John Rocky
Miller, Marinda M.
Miller, Robert W.
Minch, Steve J. Mitchell, Duane C.
Mitchell, Kenneth G.
Monroe, Jason D.
Montes, Gerardo M.
Morris, Kendall A.
Morzelewski, David F.
Mouritsen, Dustin C.
Muhlestein, Shyloh Murphy, Terry A.
Myers, Kurt R.
Myers, Robert S.
Naranjo, Michael J.
Nedesky, David A.
Nelson, Bradley D.
Nelson, Clayten J. Nelson, Paul W. Nelson, Robb D.
Nelson, Paul VV.
Nicholas, Kelly T.
Nielsen, Corey W.
Nielsen, Dennis M. Nielson, Jerry O.
Norton, Grant D.
Ochoa, Joseph A. Ohler, Brian R.
Olpin, Mark L.
Olson, James G.
Olson, Stacie
O'Neal, John T.
Orchard, Theo R.
Ovard, Brent G.
Paddock, Shane D. Palman, Marty I
Palmer, Marty L. Paxman, Scott W.
Perry, Ryan W.
Petersen, Ben L.
Peterson, Randy E. Peterson, Thomas D.
Peterson, Thomas D.
Peterson, William A.
Phippen, Robert E. Bickering Elmo W
Pickering, Elmo W. Pitcher, David O.
Pollock, James G.
Potts, Dennis A.
Poulsen, John E.
Pratt, Kenneth W.

07157	D-IV	Saint George City
08338	SS	Manti-LaSal National Forest
98524		nd T-IV Central Utah Water Conservancy District
25560	T-IV	Jordan Valley Water Conservancy District
25060	SS	Fishlake National Forest
22022	D-II	Honeyville City
22198	D-I and	, ,
		•
08429	D-II	Washington City
25558	SS	Pine Mountain Mutual
08382	D-II	Heber Valley Camp
25061	SS	Weber Memorial Park
25519	SS	Utah State Parks/Antelope Island
22200	D-I	East Zion Special Service District
93122	D-IV	Water Specialist
25520	D-IV	Utah State University
22214	D-IV a	nd T-IV Metropolitan Water District of SL/Sandy
84277	D-II	Herriman City
07160	D-IV	West Bountiful City
25559	D-IV	Granger-Hunter Improvement District
24525	D-IV	Saint George City
08339	D-IV	Jordan Valley Water Conservancy District
92137	D-IV	Metropolitan Water District of SL/Sandy
99151	D-IV	Park City
25521	D-III	Clinton City
99546	D-IV a	nd T-IV Ogden City
25025	D-I	Acme Water Company
88111	T-IV	Bountiful City
98145	D-IV	•
		Santa Clara City
20118	D-IV	Lehi City
25522	D-I	Green Hills Water & Sewer District
92512	T-IV	Central Utah Water Conservancy District
07236	T-IV	Washington City
99154	D-IV	÷ ,
		Layton City
25063	D-IV	Central Utah Water Conservancy District
25545	T-IV	Weber Basin Water Conservancy District
22142	D-III	River Heights City
92514	D-II	Perry City
99547	D-IV	Orem City
25546	D-I	Corinne City
99156	D-III	Hyrum City
97151	D-IV	Taylorsville-Bennion Improvement District
93123	D-IV	WaterPro Inc
22144	D-IV	Sandy City
	D-III	
25548		Enoch City
93532	T-IV	Deseret Power
08437	D-III	Heber City
25064	T-IV	Metropolitan Water District of SL/Sandy
08342	D-IV	Riverton City
08383	D-I	Paragonah Town
87735		nd T-IV Orem City
22560	D-I	Henefer Town
92167	T-IV	Jordanelle Special Service District
22145	D-III	Nephi City
93535	T-IV	Weber Basin Water Conservancy District
08343	D-IV	Granger-Hunter Improvement District
99164	D-IV	Orem City
08440	D-IV	Bluffdale City
21547	D-IV	Ogden City
08344	T-I	My Sentinel Property Management
25027	D-II	Bear River Water Conservancy District
22027	SS	American Pacific Corp
93127	T-IV	Central Utah Water Conservancy District
25028	D-IV	Washington City
84587	T-IV	Salt Lake City
08384	T-IV	Jordan Valley Water Conservancy District
22029	SS	American Pacific Corp
LLUL7	55	American Facilic Corp



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Preece, Abby Jo
Prescott, Brandon J.
Prince, Robert L., Jr.
Pugsley, David R.
Pugsley, Tyler D.
Pugsley, Tyler D. Quinn, Raymond L.
Quitter, Jim E.
Raber, Robert W.
Rasmussen, Neil
Rasmussen, Shannon C.
Reese, Timothy D.
Reynolds, Casey J.
Rhoades, Leon L.
Richardson, Billy J. Richins, Corey L.
Richins, Jedediah K.
Richins, Ken
Richins, Ken Ricketts, Scott R.
Riding, Alan K.
Rino, Eugene A.
Robbins, Brett F. Roberts, Gaylen D.
Roberts, Gaylen D.
Roberts, John W.
Roberts, Michael D.
Roberts, Rick R. Roberts, Wendle J.
Roberts, Wendle J.
Robertson, Jeremy C.
Robinson, Gerri L. Robinson, Jamos D
Robinson, James D. Robinson, Keith
Robison, Leland D.
Romero, Ross
Roosendaal, Neil C. Rose, Jerry W.
Roth, David B.
Roybal, Shelly
Rubalcaba, Jose J. Rueckert, Jonathan A.
Rydalch, Keith F.
Sabey, Rick C.
Sadler, Dennis W. Sanchez, Ruben E.
Sarvela, Mark H.
Sawatzki, David J.
Scoffield, Rusty
Scow, Gary W.
Searcy, Dale K.
Searle, JaiDe
Shafer, Robert D. Shaw, Cary D.
Shaw, Cary D.
Shiner, Terry C.
Shoop, Christopher W.
Shumway, Corbin D. Siddoway, Gary N.
Siddoway, Gary N. Simons, Bart
Slack, Randy J.
Slade, Karl R.
Slagowski, Mark E.
Slater, Jeremy D.
Slaugh, Bryce
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Slaugh, Wesley S.
Slaugh, Wesley S. Smith, Brannen W.
Slaugh, Wesley S. Smith, Brannen W. Smith, Gordon L.
Slaugh, Wesley S. Smith, Brannen W. Smith, Gordon L. Smith, Lonnie M.
Slaugh, Wesley S. Smith, Brannen W. Smith, Gordon L.

99553	D-IV Weber Basin Water Conservancy District
07241	D-IV Ogden City
86635	D-IV Ogden City
25523	D-II Water Specialist
96145	D-III Brigham City
23540	T-II North Emery Water Users SSD
25029	SS Fremont Indian State Park
00647	· · · · · · · · · · · · · · · · · · ·
25067	D-IV South Jordan City
08441	D-III Water Specialist
08285	T-II Washington City
99555	D-I Rocky Ridge Town
08385	D-II Heber Valley Camp
22219	SS Eastland Special Service District
08364	D-IV Clinton City
22216	D-IV Washington City
96529	D-IV Hurricane City
95143	D-II Washington Terrace City
87749	D-IV Delta City
25069	SS Whispering Pines Water Company
24084	T-IV WaterPro Inc
25031	D-I Camperworld Trust
99557	D-II Water Specialist
08286	SS Sigurd Town
08287	D-II Washington City
25549	SS Wales Town
22536	D-IV Riverton City
95144	D-II Ogden City
08347	D-I Caineville Town
84706	
	and the second se
08348	D-IV South Jordan City
08349	D-II Washington City
22203	SS Swiss Alpine Water Company
08350	SS Holly Refining & Marketing Company
22149	T-I Metropolitan Water District of SL/Sandy
22204	D-I Gorgoza Mutual Water Company
08443	T-II Salt Lake City
25551	D-IV North Salt Lake City
08288	D-II US Magnesium LLC
93129	D-IV Wallsburg Town
20545	D-IV Mt Regional Water Special Service District
22150	D-IV and T-II Kearns Improvement District
08444	D-IV and T-IV Metropolitan Water District of SL/Sandy
08386	D-II Water Specialist
22152	D-III Tremonton City
84029	D-IV Price River Water Improvement District
84297	D-IV Roy City
26135	T-II Mt Regional Water Special Service District
89133	D-IV South Ogden City
00723	D-IV Jordan Valley Water Conservancy District
90150	D-I Vernal City
22540	D-I Buena Vista Community
08446	D-I Springville City
22541	D-II Kamas City
84061	D-IV Provo City
97165	D-IV LaVerkin City
98534	D-IV Taylorsville-Bennion Improvement District
84300	D-IV Bountiful City
08362	D-IV Bounting City D-IV Orem City
91138	•
25071	SS and T-I Clay Basin Camp
07170	D-IV WaterPro Inc
90132	D-II Metropolitan Water District of SL/Sandy
99170	D-IV Layton City
08351	D-I Ogden City
08352	D-IV Granger-Hunter Improvement District





Open Line

Snook, Kenneth H.00561T-IVPrice River Water Improvement DistrictSnown, Troy J.25073D-IVPleasant Grove CitySolemon, Phillip T.90134D-IV and T-IIISaint George CitySorensen, Eric S.07171D-IVMetropolitan Water District of SL/SandySovine, Mark K.25074D-IIIGrand Water & Sewer Service AgencySpackman, Adam D.08449D-IVGranger-Hunter Improvement DistrictSpackman, David A.87740T-IVJordan Valley Water Conservancy DistrictSteed, Joshua D.22155D-IVLayton CitySteed, Joshua D.22155D-IVVater Conservancy DistrictSteed, Joshua D.22155D-IVWater Conservancy DistrictSteed, Nern S.07173T-IVWater SpecialistStevens, Bobby V.08450D-IMeadows Ranches Water CompanyStewart, Rickey L.25075D-IVRodows Ranches Water CompanyStewart, Bobby V.08450D-IIMeadows Ranches Mater CompanyStewart, Randon P.22156D-IV and T-IVPark CityStoneman, Don R.95540D-IISpanish Fork CityStraw, Mack A.08363D-IIIEagle Mountain CityStrickland, Fred A.22547T-IVMetropolitan Water Conservancy DistrictSudar, Gary M.08354T-IVCentral Utah Water Conservancy DistrictSudar, Gary M.08355T-IVCentral Utah Water Conservancy DistrictSudar, Gary M.08354T-IVCentr	Smout, Travis W.	08448	D-II Timber Lakes Water Special Service District
Snow, Troy J.25073D-IVPleasant Grove CitySolomon, Phillip T.90134D-IV and T-IIISaint George CitySorensen, Eric S.07171D-IVMetropolitan Water District of SL/SandySpackman, Adam D.08449D-IUGranger-Hunter Improvement DistrictSpackman, David A.87740T-IVJordan Valley Water Conservancy DistrictSpackman, David A.87740T-IVVeber Basin Water Conservancy DistrictSpens, Paul J.23134D-IVWeber Basin Water Conservancy DistrictSteel, Vern S.07173T-IVWater SpecialistSteehens, Corbett K.08388D-IVElk Ridge CityStevens, Bobby V.08450D-IMeadows Ranches Water CompanyStexevart, Rickey L.25075D-IVRoosevelt CityStock, Ronald A.98155D-IV and T-IVPark CityStoneman, Don R.95540D-IISpanish Fork CityStratton, Steven B.08290D-IKeloba Recreation AssociationStraikand, Fred A.22457T-IVMetropolitan Water Conservancy DistrictSudar, Gary M.08354T-IVCentral Utah Water Conservancy DistrictSudar, Jonathon E.08355T-IVCentral Utah Water Conservancy DistrictSudar, Jonathon E.2076D-IITaylor-West Water Special Service DistrictSudar, Jonathon E.20355D-IVAnd T-IWSudar, Sary M.25076D-IITaylor-West Water Conservancy DistrictSudar, Sudari K.2154 <td< td=""><td></td><td></td><td>I</td></td<>			I
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