

THE PIPELINE

Monthly Newsletter

May 2009

*Pipeline, an
Award-Winning
Publication*

Reporters:

*Maggie Alvarez
Daniel Brown
Laura Hagen Fairbanks
Karin Garrison
Barry Holbert
Dale Karnatz
Thom Nielsen
Lorraine Simon
Annie Szalay*

Managing Editor:
Laura Hagen Fairbanks

Editor:
Lorraine Simon



Mission Statement

*Our mission is to protect
the public health, safety,
and the environment
by providing quality
service, environmental
stewardship and
renewable resources.*

Avra Valley BNROD Expansion Project

by Lorraine Simon

The Avra Valley Wastewater Reclamation Facility (WRF) Biological Nutrient Removal Oxidation Ditch (BNROD) Plant Expansion was put into service on April 27, 2009. The project will officially be complete in July 2009. When complete, this expansion project will not only provide increased wastewater treatment capacity for the projected growth in the Avra Valley area, but also will include nutrient removal resulting in a higher quality effluent. The department is in the permitting process to receive groundwater recharge credits for this facility from the Arizona Department of Water Resources.

The two-year project began in July 2007. It included the building of a new facility designed to handle larger projected wastewater flows of 4 million gallons a day (MGD), and the decommissioning of the existing Avra Valley 2.2 MGD facility.

The total budget for this project was \$55.8 million. It is projected that the project will be completed on time and slightly under budget.

Funding came from 2004 Sewer Revenue Bonds and the department's System Development Funds.

Ray Pagel is the RWRD Project Manager for this project. The Treatment Division was represented by Frank Gall. Special support was provided by Nancy Davis from the Pima County Attorney's Office and Christina Biggs from Pima County Real Property Services. The key project team from the contracted services included: Kim Tanner, Kennedy Jenks; Jim Dettmer, Malcolm Pirnie; Steve Robinson and Matt Brown, of Sundt Construction.

"This project was successfully delivered through a Construction Manager at Risk (CMAR) delivery method. This method allowed for adjustments in the project during the design and construction phases. It was successful in a large part because the contractor, design firm, project management and construction management firms utilized a team-oriented approach," said Eric Wieduwilt, Deputy Director of Planning, Engineering and CIP.



Avra Valley BNROD Expansion Project Team

Construction Project Avoided

by Laura Hagen Fairbanks

The centrifuge at the Ina Road Wastewater Reclamation Facility (WRF) removes water from biosolids so those biosolids can be land applied to area agricultural fields. The water (centrate) that is removed from the biosolids is conveyed through a centrate line back to the headworks of the Ina Road facility where it goes through the treatment process.

The Ina Road facility has been in operation since 1979, but the centrifuge was installed in 1987. The centrate line was designed and constructed with only one manhole which was located behind the centrifuge building. Cleaning of this line had not occurred since its construction 22 years ago. Over time, flow through the line had been reduced significantly and it was believed that the line was clogged with struvite. Struvite is created through a chemical reaction in centrate and its accumulation in a line can cause a cement-like coating in the pipe.

An above-ground temporary pipe was used to convey the centrate to the headworks, and there was discussion about constructing a permanent underground centrate line. Initial estimates projected the design engineering costs at \$500,000 and construction costs at \$4.5 million. Discussion about replacing the line was underway when staff suggested that an attempt be made to 1) clean the line and 2) if successful, install manholes to allow for regular cleaning and maintenance. This suggestion was met with a good deal of skepticism since the likelihood of the line being clogged with struvite was high and removal of significant amounts of struvite would most



Centrifuge Unit at Ina Road WRF Before Repair Work

likely be impossible.

Build up of material had reduced 2,800 feet of eight-inch diameter pipe to a capacity of a two-inch line. Two hundred feet of six-inch diameter pipe had also been reduced to that of a two-inch diameter pipe. In spite of these concerns, a decision was made to attempt to clean the line.

Once work began to clear the line, it was discovered that the material clogging the pipes was a combination of struvite, tightly packed mud, and hair. During the four-day, cleaning process two steel rods and a metal brush-like tool broke as Conveyance Division employees, Craig Hamilton and Ronald Gaines, struggled to clear the line. Ultimately, Craig and Ronald successfully removed the struvite, mud and hair from the line and restored it to good condition.

After the lines were cleaned, five manholes were installed at \$10,000 each. The manholes will allow for regular maintenance of the pipe, so such a severe build up of any type of material will not happen again. Before the Conveyance Division staff cleaned the 3,000-foot line, the maximum flow that could be sent through the centrate line was 175 gallons per minute (gpm). After their successful efforts, this pipe can now accommodate up to 800 gpm.

Crain and Ronald spent four days working at the Ina Road site and lost two tools during the effort. The department spent \$50,000 to install five manholes to assure that such a significant build up would not occur again. By taking these steps, RWRD saved nearly \$5 million in design and construction costs.



Left to right: Ronald Gaines and Craig Hamilton, Conveyance Division employees

New Office – Conveyance Division

by Laura Hagen Fairbanks

The Pima County Facilities Management Department completed the renovation of the former Ilsa's Bakery into an office complex for the Conveyance Division. The Conveyance Division has been housed in a facility located at 3390 Richey Boulevard since 1979 when Pima County received the facility as part of a 1979 intergovernmental agreement (IGA) between Pima County and the City of Tucson. At that time, RWRD was responsible for the operations and maintenance of 1,600 miles of sewer lines.



New Conveyance System Administrative Office

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Today, the department operates and maintains more than 3,400 miles of sewer lines. Since taking over the facility on Richey Road in 1979, the department has more than doubled the size of the sanitary sewer system and has incorporated new technologies into the operations and maintenance of the system. Since 1979, the use of computers, closed circuit television trucks, odor control units, and other specialized trucks and equipment have modernized the operations and maintenance of the sanitary sewer system. Along with that expansion and modernization came the need for additional staff.

With the expansion of the system, the incorporation of new technologies and equipment, and the addition of staff to keep up with growing needs, the Conveyance Division had outgrown the office space used to house both administrative and field staff. The new Conveyance System Administrative Office facility is adjacent to the Field Services Building. The Administrative Office facility houses 17 employees who provide data entry, compliance assistance, permitting activities, GIS assistance, engineering activities, etc. The Field Services Building now serves 65 field and safety personnel; while the Warehouse/Maintenance Building, also located on the Conveyance System Campus, houses 13 employees who maintain, operate, and service pump stations; as well as a mechanic who maintains our fleet of specialty trucks and other vehicles.

With administrative staff housed in the new facility, field staff now has adequate space to complete paper work and has access to computers. Because there are significant hazards associated with working in and on the sanitary conveyance system, much-needed space is now dedicated to ongoing safety training. Although there are three separate buildings located on the Conveyance System Campus, employees are located together according to function on a site that continues to allow easy access to all campus sites, facilitating interaction between different working groups as necessary.

Spring Events for Community Relations

by Lorraine Simon

This spring, the Community Relations Office was invited to participate in a number of community events during which staff educated the public about the hazards of pouring grease down drains and the ongoing drought in Pima County.

The first event – Be Safe Saturday – drew a crowd of 8,500 and was held on March 28, at Tucson Medical Center. The department also was invited to participate in two Earth Day events. The first Earth Day Event was held on April 4, at Reid Park and drew a crowd of 5,000. On April 22, RWRD participated in an Earth Day event at the Northwest Campus of Pima Community College where approximately 500 students interacted with RWRD staff.

The weekend of April 18 and 19, RWRD volunteers (Al Bustamante, Patsy Cota, Jim Doyle, Marvin Fairbanks, Monica Garcia, Noel Ortiz, Annie Szalay) assisted Community Relations staff at the seventh annual Fiesta Grande celebration in Barrio Hollywood. The two-day event drew approximately 45,000 people to Grande Avenue between St. Mary's Road and Speedway Boulevard. Also on April 8, Community Relations participated in a Pima Association of Government's event during which staff provided a radio interview about the importance of not pouring grease down drains. The following weekend on April 25, the Stand for Children event (a nationwide celebration for children) was held on the grounds of Reid Park Zoo. Approximately 6,800 children and adults attended this popular event. Finally, on May 7, Community Relations staff participated in the Citi Go Green Environmental Fair held at the UA Science and Technology Park. About 500 employees visited the environmentally-themed booths

In addition to interacting with the public at outreach events, Community Relations staff members also addressed Pima County students at area schools about the sanitary sewer system and the wastewater treatment process.



Annie Szalay and Monica Garcia Staff Public Works Booth at Fiesta Grande



Earth Day at Pima Community College

RWRD Wins First Place Prize in Earth Day Parade

by Lorraine Simon

Congratulations to RWRD for winning first place in this year's Earth Day Parade in the adult entry category. The parade kicked off the 15th Annual Tucson Earth Day Festival held at Reid Park on April 4.

Many thanks to RWRD employees: Al Bustamante, Francisco Duchicela, Laura Fairbanks, Sandy Garrick (and her two children Alena and Alex), Sean Harmon, Hope Sikora (former RWRD employee and mother of RWRD employees Joseph and Stephanie Siva), Lorraine Simon, Cecilia Vindiola, and Lilian Von Rago. These enthusiastic staff members lent their voices to the song, *Just a Spoonful of Grease Can Make Your Sewer Back Up*, sung to the tune of the Mary Poppins song, *Just a Spoonful of Sugar Helps the Medicine Go Down*. The lyrics to the song were provided by Laura Hagen Fairbanks, Community Relations Manager. A link to the song can be found at: http://intranet.wwm.pima.gov/galleries/earth_day_2009/video.htm.

Percussion instrumentation was provided by Francisco Duchicela and included a bombo drum, dry pod maraca, musical egg shaker, and goat hoof cha chas.

Parade attendees and judges alike responded with laughter and what appeared to be a "light bulb moment" as the enthusiastic Sewer Singers described in song what happens



Earth Day Parade Sewer Singers

when grease-clogged sewers back up.

In the past, RWRD consistently won first place prizes in the parade because of staff efforts to create beautiful float entries, largely made out of recycled materials. This year, because of budget constraints, it was decided to forego the more elaborate float for a simpler parade entry. According to Community Relations Manager, Laura Hagen Fairbanks, "The only thing that we recycled for this year's parade entry was an old song. Fortunately, that was enough to get our message out and impress the judges."

Personnel Update

by Annie Szalay

Recently there have been several revisions to many of Pima County's Administrative Procedures (approximately twelve) that became effective during the months of March and April. We (RWRD Employee Services) would like to provide clarification and insight on some of these new procedures:

Insurance Coverage During Leaves of Absence - Pima County Administrative Procedure 23-4:

This procedure sets forth provisions requiring employees to communicate their intentions to Human Resources and insurance plan providers regarding medical, dental and life insurance coverage during any type of a leave of absence. The Insurance Coverage Agreement Form must be used to communicate the employee's intentions (contact Daniel Brown or Patsy Padilla for more information).

The new provision also requires that employees have a minimum of 40 hours of worked time or donated leave time in a pay period to be eligible for Pima County's continued contribution to the employee's insurances. If employees do not meet this requirement, they will have the opportunity to pay for both the County's portion and their own portion of insurance premiums to maintain their coverage.

Employees who are on Family Medical Leave Act (FMLA) or Industrial Commission of Arizona (ICA) are only required to pay their portion of the premiums. Now anyone who is on a Leave of Absence without pay for any other reason will have to meet the new provision as stated above.

Health Insurance Enrollment Process – Pima County Administrative Procedure 23-22:

This procedure sets forth provisions regarding insurance enrollments. The main revision to this procedure establishes the electronic enrollment process through the ADP*HR Employeease.

Please keep in mind that both the employee and the Human Resources Department are responsible for ensuring that the benefit premiums are correct. You should periodically review your payroll advice to ensure that your insurance premiums are correct.

As mentioned above there were multiple revisions to other Administrative Procedures. For more information, please visit the following website link: <http://www.pima.gov/cmo/procedures/index.htm>.

Dear Personnel Representative

by Annie Szalay

What should I do if I know that a fellow employee, or even a supervisor, is conducting non-county business on county time?

Signed Concerned Employee

Dear Concerned Employee:

You should report the incident to your immediate supervisor. Pursuant to Personnel Policy 7-119 N., all county employees are responsible for reporting all known mistakes, policy violations, or infractions of the Rules of Conduct to the immediate supervisor.

If the immediate supervisor is the one who you feel is abusing county policies and procedures, you will need to elevate the incident up the chain of command.

Pima County takes infractions of the Rules of Conduct seriously and this type of behavior is not tolerated. Abuse of privileges could result in disciplinary action up to and including termination.

Sincerely,

Pima County Regional Wastewater Reclamation Dept. Personnel Representative

If you have a personnel issue or concern, please feel free to write a letter to Dear Personnel Representative, 8th floor, Public Works Building.

Summer Youth Program

by Dale Karnatz

The Pima County Regional Wastewater Reclamation Department (RWRD) and Pima County Natural Resources, Parks and Recreation (NRPR) Department will employ 75 youngsters this summer through the Summer Youth Program.

The Summer Youth Program is for youths between the ages of 14-21 years. This program provides teens and young adults with valuable and meaningful work experience, teaches them responsibility, and provides them with a salary. Program participants earn \$7.25 per hour.

This summer, sixty young people will be assigned to RWRD and fifteen will be assigned to NRPR. RWRD will employ the teens and young adults to work outdoors doing various landscaping and clean-

up duties. Crews of seven to eight young people will be led by an adult crew supervisor. The youths working for NRPR will work with children at Pima County recreation centers. Work hours will be 7:00 a.m. – 3:00 p.m.

Participants can catch rides to their main work site from the following locations: the downtown YMCA, the IWC site, the Ina Road WRF, and the Mission Road complex.

The program consists of two (2) five-week sessions. The first session will run from June 1, 2009 to July 2, 2009. The second session will run from July 6, 2009 to August 6, 2009.

The RWRD Staff Training and Development Section manages the Summer Youth Program.

New Hire Orientation Tour

by Karin Garrison

The Staff Training and Development Section provides a New Hire Orientation Tour for all new employees of the Regional Wastewater Reclamation Department. This orientation was implemented two years ago to provide a professional and comprehensive introduction of our department to all newly hired employees.

This orientation and tour is an all-day training that begins at 8:00 a.m. and ends at approximately 3:00 p.m. It begins at the Mission Road facility with a PowerPoint presentation which includes an introduction to our department's organizational structure, vision, mission and key staff. The presentation also includes a brief introduction of how RWRD fits under the Public Works Department's umbrella and Pima County as a whole. A handout is distributed that provides useful information on department communication, quality improvement program, Public Works training classes, county departments, Downtown parking, and places to eat.

We encourage existing employees to attend the orientation and

tour with their supervisor's permission. Several such employees have attended and remarked that they wished this program was in existence when they initially came to work for RWRD. The orientation provides an overview of the functions of each of the different divisions and a face-to-face introduction of the new employees to staff at the various sites.

The tour includes a drive through of the Mission Road Complex and the Downtown area (Public Works Building, Graphic Services, Pima Vocational High School, and the Administration, Health and Welfare, and Superior Courts building complex). The tour continues with a brief stop at the Kino Environmental Restoration Project (KERP) Facility (which is located at the Kino Sports Complex), followed by a visit to the Randolph Park WRF, the Conveyance Division offices, and the Tucson Boulevard Flow Diversion Structure. After a brief lunch break, the afternoon consists of stops at the Roger Road WRF and

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the Ina Road WRF where attendees are shown the different processes involved in the treatment of a wastewater.

The orientation and tour will mark its second anniversary in July. The positive feedback that we have received from those individuals

who attended has been very constructive and upbeat. The orientation and tour is scheduled on the first Thursday of every month. Anyone interested in participating in this tour should contact Karin Garrison at 443-6425 or by e-mail at Karin.garrison@wwm.pima.gov.

Suggestions for Improvements

by Barry Holbert

Do you have an idea or suggestion on how to make our department more efficient, more cost-effective, or safer? If so, then complete the "Suggestion Form" that is included in this edition of the Pipeline. You may access the form at <http://intranet.wwm.pima.gov/bsc/suggestions/suggestions.htm>.

Please send your completed form through interdepartmental mail to Director, Mike Gritzuk. Mr. Gritzuk will review your suggestions and if appropriate, forward them on for consideration and action.

This is your opportunity to identify an internal RWRD process that you feel could be improved. Here's your chance to help us all work smarter!



Maggie Alvarez, Office Support Specialist, Wins E-RAP Employee of the Quarter Award Again.

E-RAP on the Spot Awards

by Thom Nielsen

Listed below are RWRD employees nominated for the Employee Recognition and Appreciation Program (E-RAP) "On the Spot" awards. The intent of the "On the Spot" awards is to acknowledge good work performed by RWRD employees in the areas of Customer Service, Leadership, Creative Thinking, Problem Solving, Fiscal Responsibility, and Process Improvement. If the contribution of the employee does not fit into any of the categories listed above, the nominator may create a category of his/her own. There are no restrictions placed on who can nominate whom.

Patsy Ronquillo Cota, Office Support Specialist Level III, was nominated by Cecilia Vindiola, Community Relations Outreach Coordinator, for Leadership and Problem Solving. Patsy regularly goes above and beyond her normal job responsibilities and assists with special projects. In April, she volunteered to staff the RWRD booth at Barrio Hollywood's annual Fiesta Grande event. Also, when Patsy heard that several staff members were interested in shirts with an RWRD logo, she took orders, located a vendor, collected cash for the order, and delivered the shirts to staff. Patsy's energy and helpful nature do not go unnoticed.

Maggie Alvarez, Office Support Specialist, was selected as Employee of the Quarter in a random drawing of all individuals who received "On the Spot" Awards during the January - March quarter. Maggie was presented with a crisp \$100 bill that she will likely spend on her new grandson! Congratulations to Maggie on both accounts!

Roger Road WRF Employees of the Year

by Gwen Chandler

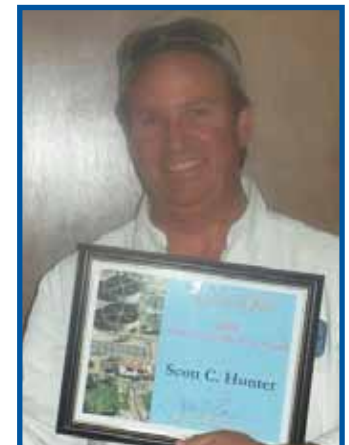
The Roger Road Wastewater Reclamation Facility (WRF) Management Team has selected two employees, Steve Valencia, Senior Wastewater Treatment Plant (WWTP) Operator, and Scott Hunter, Trades Maintenance Specialist – Painter, as the 2008 "Employees of the Year".

Steve started working for RWRD in June 2005 as a WWTP Operator Trainee. In February 2006, he received his certification as a Wastewater Operator Grade 1 and graduated to become a WWTP Operator. He was promoted to a Senior WWTP Operator in December 2006. Steve is also a qualified Principal Designee and is utilized in this position in the absence of a Principal Operator.

Scott started working for RWRD in February 2002.

Steve and Scott were selected based on their attendance, attitude,

work ethic and team-based skills. John W. Sherlock, Plant Superintendent, and the entire Roger Road WRF staff wish to thank them both for all their hard work and dedication.



Steve Valencia, Senior WWTP Operator and Scott Hunter, Trades Maintenance Specialist



Ron Riska, Project Manger

Ron Riska Retires

by Lorraine Simon

On April 10, Ron Riska, Project Manager, bid farewell to RWRD after seven years of service.

Ron received his bachelor's degree from General Motors Institute (a five-year engineering management work/study program sponsored by the General Motors Corporation). Additionally he completed undergraduate studies in construction management at the University of Michigan and UCLA. Ron received continuing education credits and certification in wastewater treatment plant maintenance, operation and management while working in Maui, Hawaii.

He began his career with RWRD as a Civil Engineer III in April 2002, and was responsible primarily for project management assignments. Five years later, in April 2007, Ron was promoted to the position of Project Manager, a position he held until his retirement.

Ron's contributions to RWRD have been significant. Some of the major projects he has worked on include: the Green Valley BNRD (Biological Nutrient Removal Oxidation Ditch) Expansion, Avra Valley Interim Expansion, Randolph Park Project, Corona de Tucson WRF Expansion and the Ina Road

WRF Nitrification Denitrification Study. Most recently, Ron was the RWRD Owner's Representative to the Program Manager for the Regional Optimization Master Plan (ROMP) Study.

Ron shared fond memories of his time with the department. When asked what he will miss most about working at RWRD, Ron replied, "A sense of accomplishment and appreciation of fellow staff who contributed to the successful completion of many projects."

Some of Ron's coworkers shared their sentiments about what it was like to work with him.

"He is very precise in his opinion, and if you start to reply when he is not quite finished, he would politely put up his hand and say, 'but I'm not done yet', and continue on, and on and on. On a more serious note, Ron was very thorough in his work and dedicated to the success of his projects as was demonstrated in his contributions to ROMP. He will be missed and difficult to replace," said Ron's supervisor, Michael Kostrzewski.

"Luck is the only way I can describe the coincidence of having the ROMP project start when we have a Program Manager with the perfect set of wastewater design and construction skills available to guide this budding process. Ron's past experiences and his outstanding professional demeanor were a perfect fit to guide the ROMP master plan process, contract development, and 'herding the cats' well on the way to full implementation. His insightful comments and balanced approach will be missed as we navigate the remaining challenges of ROMP implementation," said Eric Wieduwilt.

"You won't find a more dedicated individual; Ron has taken on several Project Manager roles with the department. I have been privileged to be associated with five different projects that Ron had on his plate. The first project was the Green Valley BNRD Expansion. Ron's first project manager task, and what a task it was, the plant construction was over 75% complete when the contractor filed for bankruptcy. Ron had to deal with the surety company and work with the new contractor and get the project back on track. What a challenge for your first project. Ron played a key role with positive results in managing several projects at the same time. Ron the 'magician' at one time had responsibilities for the post Randolph Park WRF flood project, the Avra Valley Interim Plant Expansion, the Corona de Tucson 1.0 MGD Expansion, and let's not forget ROMP. Ron's knowledge and experience will be truly missed by all who knew him. If I had any questions or needed things done, Ron was the one I could count on. I don't know how I'll be able to repay him for all his efforts; well maybe his payback is he won't have to deal with me any more. Ron, thanks for everything, enjoy your retirement, you truly earned it," Frank Gall.

"We have been privileged that Ron has been with the department for the ROMP program development and execution. Without his expert advice, his coolness under pressure and overall supervision we would not be as far along as we are. We'll miss him and wish him a Happy Retirement," said Jaime Rivera.

"Ron came to us with an extensive background in the design and construction of public utility infrastructures, including wastewater. From the beginning of his employment he has taken on some major projects for the department associated with the construction management of major modifications, process changes and upgrades to several wastewater treatment facilities, including the Green Valley WRF, the Randolph Park WRF, the Avra Valley WRF and the Corona de Tucson WRF. He also managed various engineering evaluations and design projects for upgrades to the Ina Road WRF and, as an excellent team player, has provided expert advice and assistance to staff. His program management of the ROMP project is unprecedented. His departure will be greatly noticed. I wish him great luck in his future endeavors, and he will definitely be missed," John Munden.

Ron was born in Saginaw, Michigan, and after several family relocations including Indiana and California, moved to Tucson in 2001 after researching "The Best Places to Retire" in Fortune Magazine. He has worked in many places; California, Indonesia, Kuwait, Iraq, Alaska, Texas and Hawaii. "It was either Tucson, or Fort Lauderdale, Florida and I don't like hurricanes or alligators," said Ron.

Ron has been happily married for the past twenty years. In his spare time, he enjoys golf, reading, and travel. When asked about his plans for retirement, Ron replied, "Golf a little, catch up on reading, do some travelling, the on-going honey-do lists, and interesting part-time work."

A retirement party in his honor was held on April 17, at Desert Diamond Casino. We will miss Ron and wish him well in his retirement.

Employee Birthdays

by Maggie Alvarez

Listed below are employees who have birthdays for the month of June:

Tom Berry, Julie Brixen, James Crews, Lance Ferguson, Ed Frasquillo, Ronald Gaines, Gary Gamaldi, David Garrett, William Gerdes, LD Gomez, Jason Grodman, Michelle Hamilton, Keith Hensley, Greg Hitt, Randy Hourscht, Cynthia Howser, Jason Joaquin, Danny Johnson, Francisco Koch, Ernie Luna Jr., Bradd Maccameron, Matt Matthewson, Daniel McGarry, Roy Montoya, Souren Naradikian, Edward Navarrete III, Sharon Nevius, Mary Noragus, Robert Ortiz, George Palenzuela, Tony Phillips, Charles Riopel, Jon Simms, Joseph Siva, Marc Spears, Kurt Stemm, Clela Stephenson, Walter Valencia, Victor Walker, Rhome Winslow

Comings and Goings

by Daniel Brown

New Hires

Grady Bird	Sr. Wastewater Treatment Plant Operator	Roger WRF
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Promotions

Ronald Leverty	Sr. Wastewater Treatment Plant Operator	Roger WRF
Todd Mailloux	Principal Wastewater Treatment Plant Operator	Roger WRF
Terri Powelson	Office Support Level IV	Mission Field Engineering

Retirements

Manuel Enriquez	Wastewater Maintenance Mechanic	Ina WRF
Dale Kerr	Principal Supply Technician	Ina WRF
Ron Riska	Project Manager	Planning and Engineering

Deadline for Pipeline Submission

Please submit your stories for the June edition to Lorraine.Simon@wwm.pima.gov, by Friday, June 5. If you will be submitting a photo, please send as a separate .jpg attachment.



PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT