

MIDGES & MOSQUITOES IN WASTEWATER LAGOONS

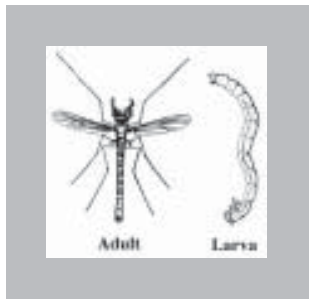
Cathie R. Eisen, Kaw Nation Environmental Department

As the warm summer months approach we are once again confronted by the yearly emergence of midges and mosquitoes. Even without the health risks that are associated with mosquito and West Nile Virus, the inconvenience and the resulting complaints would still necessitate efforts at controlling these emergences. The purpose of this article is to enable a wastewater operator to identify and address a midge or mosquito problem in their wastewater lagoon or other treatment facility, hopefully before they become a public nuisance.

IDENTIFICATION

The midge is a fly that often alarms people because of its resemblance to the mosquito. However, they differ from mosquitoes as they are not equipped to bite and do not have scaled wings. Some of the treatments for their control also provide reduction or even elimination of mosquitoes. A dual benefit in areas with concerns related to the West Nile Virus, which is along with Encephalitis, a mosquito born illness.

The adult midge is slender, usually less than 5mm long with long slender wings and legs. They lay their eggs on water and are usually found in quiet waters, with a preference to polluted waters that contain excessive algae growth, their food source. They are bottom feeders, which makes lagoon systems and trickling filters particularly vulnerable, and increases the likelihood of excessive midge populations.



Most of us can recognize mosquitoes; they differ from the midge in that they have scaled wings and in the females; elongated mouthparts that enable them to bite. The mosquito lays its eggs in any standing water and the 'wrigglers', as they are called because of their swimming motion, feed on algae and other organic matter. They can be found anywhere from a water filled tire or basin to lakes and ponds. As they prefer still water, non aerated lagoons provide an ideal habitat.



CONCERNS

During peak emergences large numbers of midges can form clouds that are not only irritating but can even block visibility, making them a potential threat as they group around well lit areas, such as street lamps. They are also very invasive entering everywhere from homes and businesses to peoples eyes, ears, etc. Large populations of midges are not only a hindrance to employees trying to do routine maintenance they are also irritating to local residents. As any City Manager will attest to, wastewater treatment facilities are subject to enough concerns without additional reasons for complaints.

Mosquitoes, although they may not swarm, have the ability to bite and spread diseases making them an even greater concern than the midge. The presence of

Continued on page 2

Continued from page 1

mosquitoes in a populated area can result in numerous complaints and greatly impact the tourist business when they are present as well as posing a health threat to both people and animals.

CONTROL

The most probable cause of the presence of these insects is poor circulation and maintenance of the lagoon system. Clearing shoreline plants to increase wind action on the pond and/or recirculation will improve the health and appearance of the lagoons and hinder the development of the larvae by reducing available habitat. Wave action from the wind may also reduce some of the larvae population.

Controlling the growth of algae will reduce the amount of available food for the midge and mosquito larvae, although the obvious limitation is that the algae are also beneficial in wastewater treatment because of the oxygen exchange that it provides. Ideally, the use of surface aerators set to stir heavily during the daylight hours will help control the algae levels in the lagoon system and still maintain adequate levels of dissolved oxygen in the water. As the mosquito larvae also tend to inhabit the water surface it may also help reduce their numbers.

There are several other methods of algae reduction, including the use of copper sulfate. This chemical is very effective in killing algae but can also be toxic to fish and many of the beneficial organisms that provide treatment of the wastewater so must be administered with caution and in compliance with state and federal regulations. Other methods include the introduction of duckweed to the lagoons as it effectively reduces the sunlight and limits the growth of the algae, covering the lagoons is also an option. As a precaution, consideration should be given to the fact that all of these solutions alter the existing treatment process, thereby creating new challenges.

Perhaps the most effective method of reducing the algae is the use of HTH (High Test Hypochlorite), better known as granular chlorine. As it is in granular form and easily measured, careful calculations can and should be made prior to its use. Caution should be taken not to apply too high a dose which could kill off the beneficial 'bugs' that the lagoons rely on to provide treatment of the influent wastewater. There are also established limits in the NPDES Permits issued to systems that discharge to receiving waters and these must be considered before this method is used.

Stocking of the lagoons with Gambusia (Mosquito Fish) is another alternative that can be utilized to reduce the number of larvae present in the lagoons as they are a food source for the fish, thus the name. At the same time consideration should be given to the fact that this method can also create its own problems. Introduction of fish could hinder mechanical processes. Or worst case scenario - a fish die-out due a shock load or loss of adequate available oxygen - creating an additional impact to an already compromised system. There is also the added concern of the potential release of these fish into the

receiving waters with the effluent discharge. They are considered a pest in some areas. Systems with an NPDES Permit should definitely consult with the agency overseeing their permit prior to introducing these fish into their system.

LARVAESIDE AND PESTICIDE APPLICATIONS

As a final alternative to controlling or attempting to eliminate midge and mosquito population chemical applications may be considered. The two most important considerations of using this remedy are the financial and environmental impacts. Chemical applications can be very costly and do not provide long term protection; as long as a food supply is available the insects will reappear. Careful consideration must also be given to the impacts on receiving waters. Once again, any system that has an NPDES Permit must first receive approval before making any changes to their system operation.

There are several different products on the market for this purpose. They can be found on the Internet or by consulting your local Environmental Department. Before purchasing any products make sure that you have thoroughly researched the application methods and found the best one for your needs. Proper planning can also be very helpful, starting a treatment program prior to the insects yearly cycle could reduce the amount of treatment required and certainly reduce the inconveniences.

In the event that there is already a major emergence of insects or that you are unable to treat the lagoon waters, fogging may be the only feasible method of reducing the population. Once again the cost must be taken into consideration as well as the fact that relief will only be provided in the areas that are treated. An additional consideration must be taken as to the impacts to the neighboring residents who should be consulted prior to exposing them to these products.

Editor's Note: Before attempting any of these methods, please, be sure to consult you local environmentalist or a recognized wastewater systems expert.

NMWWA PRESIDENT'S CORNER

Cindy Huntsman

We just finished our Northern (rotating) short school. Everything went well as usual thanks to all of those individuals that dedicated their time and efforts to helping out.

Caroline is still looking for volunteers to teach at the short schools. We have teachers who have things come up at the last minute and also those that are unable to help anymore for whatever reason so we are always looking for "new blood". When you take a class, take into consideration the time and effort the teacher took to present it. Thank them, that's all they pay they receive. We find it too easy to criticize and sometimes a little hard to voice our praise. The next short school will be in Albuquerque in September. Hope to see a lot of you there. Make your reservation early, things fill up fast.

With summer here I know everyone is very busy, so stay safe, and try not to work too hard.

OPERATOR CERTIFICATION NEWS

WASTEWATER STUDY GUIDE

Mike D. Coffman, Operator Certification Officer

Over the last year the burning question has been, "When are the Wastewater Study Guides going to be out?" Well, the answer is "This Summer". NMED has received the majority of the chapters and is in the process of reviewing them. Once the reviews have been made and the manual is complete, NMED Operator Certification Office will make the manuals available through our website, and in hard copy. I realize this study guide has been a long time coming, but I can ensure you that it will be worth the wait. Thank you for your patience and understanding.

OPERATOR CERTIFICATION OFFICE DATABASE REPAIR AND REPLACEMENT

The Operator Certification Program has for the last 31 years provided New Mexico Operators with the ability to track training credits, certificates, test scores, exam history and many more essential items involving certification. Currently the Operator Certification Program is utilizing software that is outdated for these operations, and is experiencing some problems associated with exam scores, pass/fail notification, certificate generation and updating operator files.

What does this mean?

- It means that the Certification Program is working diligently to replace the Certman Database program with new database software that will increase efficiency in the business of certifying Utility Operators.
- It also means that the program for the next few months will not have the ability to get exam results out as quickly as in the past two years. Results will take approximately 2 to 3 weeks following any test session.
- In addition, Test Results will not be given over the telephone. Please do not call the office. The Staff will get the information on the results out as soon as possible. The Operator Certification Office appreciates your patience's and understanding in this matter.

WEB ADDRESS

Attention: Water and Wastewater Operators please use this web address: www.nmenv.state.nm.us.fostop.html to access the Environment Department's Utility Operator Certification Program's web page. This page has useful program information about certification including an exam schedule, study-guide, access to free on-line training, and application forms. The small operator (Montana) training site is approved for fourteen (14) training credits. There are also links to the New Mexico Water & Wastewater Association (NMWWA) and the New Mexico Rural Water Association (NMRWA)

When you are at our website please take a minute to review compliance data on your facility. If you have changed operator(s) download the survey form, complete it and get it back to us. Please FAX# to (505) 827-0106 Attention: Dennis Quintana.



NEW MEXICO UTILITY OPERATOR NEWSLETTER

The New Mexico Water Utilities Newsletter is published on a tri-annual basis. This publication is a joint effort between the New Mexico Environment Department, Operator Certification Program, NMSU Water Utility Technical Assistance Program and the NM Water and Wastewater Association.

The Newsletter is intended to be a publication for advertising training activities, certification information, operator spotlights and relaying information to all certified and non-certified operators in the State of New Mexico.

Deadlines and format for newsletter articles are available by contacting:

Nancy Gott at 505-984-0676, wutap@qwest.net or
Mike Coffman at 505-827-0108, mike_coffman@nmenv.state.nm.us

POSITION ANNOUNCEMENTS

WASTEWATER OPERATOR III OR IV

The Town of Bernalillo is accepting applications for the position of Wastewater Operator III or IV.

The position requires a high school diploma or GED. You must have a current, valid New Mexico driver's license with a driving history acceptable to the Town insurance carrier, and a home telephone.

The position requires outside work during inclement weather, lifting up to 75 lbs., repetitive stooping, bending and lifting, and periodic on-call work during weekends and holidays. State of New Mexico Wastewater Level III Certification required, WW level IV preferred. Laboratory and supervisory experience is helpful. A CDL driver's license and experience in industrial machinery maintenance is helpful.

Applications may be obtained from the Town of Bernalillo, Personnel Office, at: 829 Camino Del Pueblo, Bernalillo New Mexico. 867-3311ext.112

WASTEWATER OPERATOR III OR IV

Position Available: Needed Immediately a NM certified Level 3 Wastewater/Level 4 Water Treatment Operator; must have or demonstrate will acquire by year-end full certifications on both levels; unique opportunity near Albuquerque; competitive salary and benefits; fax resumes to: Mr. G.T. Mason, 505-352-7880.

2004 NEW MEXICO TRAINING CALENDAR 2004

JULY

NMWWA WEST CENTRAL SECTION WORKSHOP

TOPICS: Levels 1 & 2, Basic Water & Wastewater

DATE: July 7-8, Wednesday & Thursday

TIMES: 8 to 5, each day

LOCATION: Gallup, UNM Gallup, 200 College Dr.

REGISTRATION: \$80, members; \$100, non-members.

Advanced registration is requested.

CREDITS: 13 hours

CONTACT: Pat Sanchez, 505-863-1211

NMED EXAM: July 9, 8 to 2:30

Submit your test application by June 9th at the latest.

RAGSDALE AND ASSOCIATES WORKSHOP - ADVANCED WATER CERTIFICATION

TOPICS: Level III/IV Water Systems Certification

DATE: July 13-15, 2004

LOCATION: TVI-WTC, Albuquerque, NM

REGISTRATION: \$200.00 - *Pre-registration required*

CREDITS: 21 Hours

CONTACT: Fred Ragsdale, 505-293-4658

NMRWA TRAINING – SMALL SYSTEM O&M

DATE: July 21-22, Wednesday & Thursday

LOCATION: Taos, Convention Center

REGISTRATION: 505-884-1031, 800-819-9893

CONTACT: NM Rural Water Assoc., www.nmrwa.org

DABCC OEWS 255 – SURFACE WATER CHEMISTRY, SEC. 21

TOPICS: general laboratory safety; gravimetric & volumetric measurement; pH; conductivity; titrations of acid, bases, alkalinity & hardness; dissolved oxygen; turbidity; jar testing; and precision & accuracy

DATE: July 26-30, 2004

TIME: 8 to 5 each day

LOCATION: Las Cruces, Dona Ana Branch Com. College

REGISTRATION: \$120.00 for Dona Ana County residents; \$135 for out of district; + \$15.00 (non-refundable) application fee - Pre-registration required

CREDITS: 3 college credits (transferable to 30 Cert. Hours)

CONTACT: Terry Mount, 505-527-7584: tmount@nmsu.edu;
<http://dabcc-www.nmsu.edu/serv/admin/application.html>

NMRWA TRAINING – COLLECTION SYSTEMS O&M

DATE: July 28-29, Wednesday & Thursday

LOCATION: Milan, City Hall

REGISTRATION: 505-884-1031, 800-819-9893

CONTACT: NM Rural Water Assoc., www.nmrwa.org

LOCATION: Silver City, TBA

AUGUST

MICROBIOLOGY, SEC. 22

TOPICS: water and wastewater laboratory safety; water and wastewater sampling; solids analysis; microscopic examination of activated sludge; BOD analysis; and bacteriological analysis

DATE: August 2-6, 2004

LOCATION: Las Cruces, Dona Ana Branch Com. College

REGISTRATION: \$120.00 for Dona Ana County residents; \$135 for out of district; + \$15.00 (non-refundable) application fee - Pre-registration required

CREDITS: 3 college credits (transferable to 30 Cert. Hours)

CONTACT: Terry Mount, 505-527-7584: tmount@nmsu.edu;
<http://dabcc-www.nmsu.edu/serv/admin/application.html>

NMWWA SOUTHEAST SECTION WORKSHOP

TOPICS: Levels 1 & 2, Basic Water & Wastewater

DATE: August 4-5, Wednesday & Thursday

TIMES: 8 to 5, both days

LOCATION: Roswell, Oil Field Training Center

REGISTRATION: \$80, members; \$100, non-members.

Advanced registration is requested.

CREDITS: 13 hours

CONTACT: Debbie Lopez, 505-624-6753
or Ector Alvarado, 505-347-5421

NMED EXAM: August 6, 8 to 2:30.

Submit your test application by July 7th at the latest.

NMRWA TRAINING – SMALL SYSTEM O&M

DATE: August 11-12, Wednesday & Thursday

LOCATION: Silver City, TBA

REGISTRATION: 505-884-1031, 800-819-9893

CONTACT: NM Rural Water Assoc., www.nmrwa.org

NMSU WUTAP WORKSHOP — HOMELAND SECURITY

TOPICS: historical overview of water sabotage, terrorism case studies, chemical & biological agents, areas to protect, procedures to follow, solutions for protection and detection

DATE: August 25, Wednesday

TIME: 8-5

LOCATION: Raton, Convention Center, 901 South 3rd

REGISTRATION: free of charge, but *Preregistration is required.*

CREDITS: 6 hours

CONTACT: NMSU WUTAP, 505-984-0676, FAX 982-3137;
e-mail wutap@qwest.net

SEPTEMBER

NMRWA TRAINING – SMALL SYSTEM O&M

DATE: September 8-9, Wednesday & Thursday

2004 NEW MEXICO TRAINING CALENDAR 2004

LOCATION: Cimarron, Philmont Scout Ranch
REGISTRATION: 505-884-1031, 800-819-9893
CONTACT: NM Rural Water Assoc., www.nmrwa.org

NOVEMBER

NMWWA CENTRAL SCHOOL

TOPICS: This general water & wastewater operations school is for both basic and advanced, Levels 1-4.
DATES: September 13-16, Monday through Thursday
TIMES: 8 to 5 each day [26 hours credit]
LOCATION: Albuquerque, UNM Continuing Education Bldg.
1634 University Blvd., NE
REGISTRATION: \$200 for members, \$250 for non-members.
Advanced registration is required
CREDITS: 26 hours
CONTACT: Caroline Martinez, 505-753-8840,
FAX 505-753-9810.
NMED EXAM: September 17, 8 to 2:30.
Submit your test application by August 18th at the latest.

OCTOBER

NMRWA TRAINING—SMALL SYSTEM O&M

DATE: October 6-7, Wednesday & Thursday
LOCATION: Ruidoso, Convention Center
REGISTRATION: 505-884-1034
CONTACT: NM Rural Water Assoc., www.nmrwa.org

NMWWA NORTHEAST SECTION WORKSHOP

TOPICS: Levels 1 – 2, Basic water & wastewater
DATE: October 13-14, Wednesday & Thursday
TIMES: 7:30 to 4:00 each day
LOCATION: Espanola, Nat. Guard Armory, 705 Industrial Park
REGISTRATION: \$80, members; \$100, non-members
Advanced registration is requested
CREDITS: 13 hours
CONTACT: Louis Lujan, 505-753-4740
NMED EXAM: October 15, 8 to 2:30.
Submit your test application by Sept. 15th at the latest.

RAGSDALE AND ASSOCIATES WORKSHOP - ADVANCED WASTEWATER CERTIFICATION

TOPICS: Level III/IV Wastewater Systems Certification
DATE: October 26-28, 2004
LOCATION: TVI-WTC, Albuquerque, NM
REGISTRATION: \$200.00 - **Pre-registration required**
CREDITS: 21 Hours
CONTACT: Fred Ragsdale, 505-293-4658

NMWWA CENTRAL SECTION WORKSHOP

TOPICS: Levels 1 & 2, Basic Water & Wastewater
DATE: November 3-4, Wednesday & Thursday
TIMES: 8 to 5, both days
LOCATION: Albuquerque, UNM Continuing Education
Bldg. 1634 University Blvd., NE
REGISTRATION: \$80, members; \$100, non-members.
Advanced registration is requested.
CREDITS: 13 hours
CONTACT: John Kelley, 505-363-6348
NMED EXAM: November 5, 8 to 2:30
Submit your test application by October 6th at the latest.

NMSU WUTAP WORKSHOPS —

■ **BASIC & ADVANCED WATER SYSTEMS**
TOPICS: water characteristics, disinfection, distribution, wells,
surface water treatment
DATE: November 17, Wednesday
■ **BASIC & ADVANCED WASTEWATER SYSTEMS**
TOPICS: wastewater characteristics, lagoons, disinfection, collec-
tions, secondary treatment
DATE: November 18, Thursday
TIMES: 8-5, both days
LOCATION: Silver City, Town of Silver City Annex Bldg.,
1203 N Hudson St.
REGISTRATION: \$100 for both workshops or \$55 for one workshop.
Advanced registration is requested
CREDITS: 7 hours per day
CONTACT: NMSU WUTAP, 505-984-0676, FAX 982-3137

NMRWA TRAINING—SMALL SYSTEM O&M

DATE: November 17-18, Wednesday & Thursday
LOCATION: Hobbs, Lea County Event Center
REGISTRATION: 505-884-1031, 800-819-9893
CONTACT: NM Rural Water Assoc., www.nmrwa.org

RAGSDALE AND ASSOCIATES WORKSHOP - BASIC WATER CERTIFICATION

TOPICS: Level I/II Water Systems Certification
DATE: November 30 -December 2, 2004
LOCATION: TVI-WTC, Albuquerque, NM
REGISTRATION: \$200.00 - **Pre-registration required**
CREDITS: 21 Hours
CONTACT: Fred Ragsdale, 505-293-4658

Calendar continued on page 6

NEWSLETTER DIRECTORY OF CONTACTS

NMSU WUTAP wutap@qwest.net
Nancy Gott, Editor
P.O. Box 4192
Santa Fe, NM 87502
505-984-0676 FAX 505-982-3137

NMWWA www.nmwwa.org
Caroline Martinez
P.O. Box 819
Española, NM 87532
505-753-8840 FAX 505-753-9810

NMED, Certification & Training Office
Mike Coffman 505-827-0108
P.O. Box 26110 FAX 505-827-0160
Santa Fe, NM 87502
www.nmenv.state.nm.us/swqb/fostop/html

DECEMBER

NMSU WUTAP WORKSHOPS —

■ **BASIC & ADVANCED WATER SYSTEMS**

TOPICS: water characteristics, disinfection, distribution, wells, surface water treatment

DATE: December 1, Wednesday

■ **BASIC & ADVANCED WASTEWATER SYSTEMS**

TOPICS: wastewater characteristics, lagoons, disinfection, collections, secondary treatment

DATE: December 2, Thursday

TIMES: 8-5, both days

LOCATION: Tucumcari, Convention Center

REGISTRATION: \$100 for both workshops or \$55 for one workshop.

Advanced registration is requested

CREDITS: 7 hours per day

CONTACT: NMSU WUTAP, 505-984-0676, FAX 982-3137;

NMED EXAM: December 3, 8 to 2:30. *Submit your test application by November 11th at the latest*

NMRWA TRAINING – SMALL SYSTEM O&M

DATE: December 17-18, Wednesday & Thursday

LOCATION: Socorro, TBA

REGISTRATION: 505-884-1031, 800-819-9893

CONTACT: NM Rural Water Assoc., www.nmrwa.org

ARE YOU READY FOR USEPA PHASE II - STORM WATER?

Rich Powell,

New Mexico Environment Department

All municipalities (regardless of size or location) were required to comply with NPDES industrial storm water permitting requirements (including construction > 1 acre) beginning March 10, 2003.

Operators of municipal separate storm sewer systems (MS4s) (including cities, towns, villages, drainage districts, flood control authorities, etc.) located in cities with greater than 10,000 population, **or of any size** and located in urbanized areas (UAs) (such as the Albuquerque metropolitan area) must develop, implement, and enforce a storm water management program to reduce the discharge of pollutants from its MS4 to the “maximum extent practicable” (MEP) and protect water quality using Best Management Practices (BMPs). The U.S. Census Bureau designates urbanized areas and the number of UAs increases with each census. Many operators of MS4s (> 10,000 population) located outside the urbanized areas will be designated by USEPA and will also have to develop, implement, and enforce a storm water management program. **This may potentially impact significant numbers of smaller**

municipalities and other MS4 operators throughout New Mexico.

March 10, 2003, all MS4 operators were required to submit a permit application (Notice of Intent [NOI]) to USEPA which addresses six minimum control measures for controlling pollutant loads in the storm sewer system. These include:

1. Public Outreach and Education
2. Public Participation/Involvement
3. Illicit Discharge Detection/Elimination
4. Construction Site Runoff Control
5. Post-Construction Runoff Control
6. Pollution Prevention/Good Housekeeping for Municipal Operations

The NOI must also include BMPs, measurable goals, timing and frequency of activities, and persons responsible for implementing or coordinating the MS4 program for each of the six minimum control measures.

This program will require affected MS4 operators to expend significant resources to prepare and implement a program, which will be acceptable to USEPA, and time is getting short. For additional information log on to USEPA's Phase II website at: http://cfpub1.epa.gov/npdes/stormwater/swphase2.cfm?program_id=6 or contact Rich Powell at the New Mexico Environment Department at (505) 827-2798.

DABCC OFFERS LAB COURSES

The Water Technology Program of Doña Ana Branch Community College is offering two laboratory courses; OEWU 255: Surface Water Chemistry, and OEWU 255: Water and Wastewater Microbiology. See the Calendar section for details. Each of these courses is designed to develop or improve the analytical skills of operators or lab technicians and improve their understanding of the analytical results.

The Surface Water Chemistry course will assist those operators and lab technicians, who have never been in a lab or have limited lab skills, develop those skills. It will also assist those operators, who work with surface water treatment, to better understand the process and develop the skills to run basic process control analysis.

The Water and Wastewater Microbiology course will assist those operators and lab technicians further develop their analytical skills, in addition to understanding why certain analysis is conducted, what information may be gained from the analysis, basic troubleshooting, quality control requirements and the important parameters and calculations required for each of the analyses.

There are 3 options for the 3 credit hour course: receive a grade, audit the course, or receive only training credits. All students must complete assignments, take quizzes and exams. It is not necessary to be a Water Technology Program student to enroll.

NEW MEXICO WATER & WASTEWATER ASSOCIATION

2004 CENTRAL SHORT SCHOOL - PRE-REGISTRATION FORM

CENTRAL SHORT SCHOOL
September 13-16, 2004
UNM Continuing Ed. Building
1634 University Blvd., NE
Albuquerque, NM

Payment in full must accompany this registration form or it will NOT be processed.

NAME: _____ **SOCIAL SECURITY #:** _____

HOME ADDRESS: _____ **CITY:** _____ **STATE:** _____ **ZIP:** _____

EMPLOYED BY: _____ **EMPLOYER PHONE #:** _____

ARE YOU A MEMBER OF NEW MEXICO WATER & WASTEWATER ASSOCIATION: YES NO

ARE YOU CURRENTLY CERTIFIED: YES NO

PLEASE NOTE: Pre-registration is *required* and on a "first come - first served" basis. There will be **NO** registration at the door. You must specify which *category* you will attend. When a specific *category* has reached its student capacity, no further registration will be allowed in that area, either at pre-registration or at the time of the school. Registration confirmation will **NOT** be sent. Call (505)753-8840 to confirm registration. Refunds apply **ONLY** if cancellation instructions are received one week before the specified short school and there will be a \$25 processing fee for all cancellations.

REGISTRATION FEES:

Member Fee: \$200 _____

Non-Member Fee: \$250 _____

NMWWA State & Section Dues (if not yet paid):

Active \$30 _____

Corporate \$28 _____

Associate \$25 _____

Student \$20 _____

TOTAL \$ _____

CLASSES:

You MUST mark the *category* of classes that you will be attending in order for this form to be complete.

You may attend one or two categories of classes.

26 credits each category:

<u>ENROLLMENT</u>	<u>CATEGORY</u>	_____
50 people	Basic Water (I - II)	_____
50 people	Basic Wastewater (I-II)	_____
50 people	Advanced Water(III-IV)	_____
50 people	Adv. Wastewater (III-IV)	_____
30 people	Workshops (III-IV)	_____

Make check payable to:

N.M. Water & Wastewater Association

Mail form & check to:

Caroline Martinez, Executive Manager
P.O. Box 819
Española, NM 87532

Pre-Registration Deadline: Sept. 1, 2004

Make your motel reservations before Aug. 15th

Be sure to tell them you're with NMWWA.

■ **Super 8 Motel, 2500 University Blvd.**

\$30 single, \$36 double- 1-505-888-4884

■ **LeBaron Inn, 2120 Menaul Blvd. NE**

\$39 single, \$45 double – 1-800-444-7378

■ **Roadway Inn, 2108 Menaul Blvd. NE**

\$37 single, \$40 double – 1-800-601-1873

Continued from page 6

A \$15.00 (non-refundable) application fee applies. Application forms are available at: <http://dabcc-www.nmsu.edu/serv/admin/application.html>. Click on "Non-degree Application", print and complete the form making sure to sign it, and mail the form and \$15.00 to the address listed on the form. If you have previously attended DABCC or NMSU, click on "Readmission Application. Be sure to sign the form, but there is no fee for those students who are readmitting.

Once admitted, you may secure a pin number and register on-line at the web-site: <https://www.nmsu.edu/ONLINE/>. First day registration is available, but you must notify the Water Technology Program, (505) 527-7584 or by e-mail at tmount@nmsu.edu, of your attendance at least one week prior to the first day of class. Class size is limited to 16 for each course so register on-line or notify the Water Technology Program as soon as possible if you will be attending one or both of the courses.

OPERATOR SPOTLIGHT - VICTOR PEREZ

Victor Perez started with the City of Las Cruces in 1991 in the Solid Waste Department. Then in 2001 he made a career change and joined us in the Water Distribution Department. Currently, he is a crewman and holds a Level II water certification.

Victor is very hard working and takes a tremendous amount of pride in his work. In the short time he has been with us, he has demonstrated to me that I can count on him to complete any job that is given to him. He is always available to work overtime and does a great job with emergencies. He is very easy to get along with and has earned the respect of his peers.

Victor's is a family man. He enjoys spending time with his beautiful wife Claudia, nineteen year old daughter Victoria, seventeen year old son Nick and finally the new addition to his family, 8 month old daughter Araceli.

Southwest Section



The NM Water & Wastewater Association office moved on March 15, 2004. The new location : 1116-A Plaza Del Norte (located at the Lázaro Subdivision off of Industrial Park Road), Espanola.

NMWWA MONTHLY SECTION MEETINGS

- Southeast Section
 - ⊕ 1st Wednesday, rotating
 - ☎ Hector Alvarado, 505-347-5421
- Southwest Section
 - ⊕ 3rd Wednesday, Las Cruces
 - ☎ Lorenzo Martinez, 505-528-3601
- West Central Section
 - ⊕ 4th Wednesday, Gallup
 - ☎ Ray Espinoza, 505-863-1210
- Central Section
 - ⊕ 1st Monday, Albuquerque
 - ☎ John Kelley, 505-363-6348
- Northeast Section
 - ⊕ 2nd Monday, rotating
 - ☎ Louis Lujan, 505-753-4740
- Northwest Section
 - ⊕ 1st Thursday, rotating
 - ☎ Andrew Galloway, 505-334-8684