NEW MEXICO
ENVIRONMENT DEPARTMENT

Surface Water Quality Bureau

Harold Runnels Building, N2050
1190 South St. Francis Drive (87505)
P.O. Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-0187 Fax (505) 827-0160
www.nmenv.state.nm.us

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

RYAN FLYNN
Cabinet Secretary-Designate

BUTCH TONGATE
Deputy Secretary

THOMAS SKIBITSKI
Acting Director
Resource Protection Division

CERTIFIED MAIL RETURN RECEIPT REQUESTED

June 28, 2013

Mr. Albert Campos, Mayor
City of Santa Rosa
Post Office Box 429
244 South 4th Street
Santa Rosa, NM 88435

RE: Minor Municipal, SIC 4952, NPDES Compliance Evaluation Inspection, Santa Rosa Wastewater Treatment Plant (WWTP), NPDES Permit No. NM0024988, June 28, 2013

Dear Mayor Campos:

Enclosed, please find a copy of the report for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas, for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the Clean Water Act.

Problems noted (if any) during this inspection are discussed in the Further Explanations section of this inspection report. You are encouraged to review the inspection report, and required to correct any problems noted during the inspection, and to modify your operational and/or administrative procedures, as appropriate. Further, you are encouraged to notify, in writing, both USEPA (Diana McDonald, USEPA (6EN-WC), 1445 Ross Ave., Dallas, TX 75202) and NMED (at the above address) regarding modifications and compliance schedules. Thank you for the cooperation and assistance of Mr. Mark Micelli, Mr. Onofre Cordova, Mr. Eric Aragon and Mr. Ian Serrano during this inspection. If you have any questions about this inspection report, please contact me at 505-827-0212 or barbara.cooney@state.nm.us

Sincerely,
/s/ Barbara Cooney

Barbara Cooney
Surface Water Quality Bureau

Cc: Rashida Bowlin, USEPA (6EN-AS) by email
Diana McDonald, USEPA (6EN-WM) by email
Hannah Branning, USEPA (6EN-AS) by email
Darlene Whitten-Hill, USEPA (6EN-AS) by email
Carol Peters-Wagnon, USEPA (6EN-WM) by email
Brent Larsen, USEPA (6EN-PP) by email
Michael Kesler, NMED Dist. 3 Mgr, by email

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspec. Type	Inspector	Fac Type
1 N 2 5 3	N M 0 0 2 4 9 8 8 11	12 1 3 0 5 3 1 17	18 C	19 S 20	1

Remarks: MINOR MUNICIPAL SANTA ROSA

Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved
67 1 69	70 4	71 N 72	N 73 74 75	80

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number)*
SANTA ROSA WWTP – 1-40 East to Santa Rosa, right on NM 91, Turn Right at James Wallace Power Dam Park, Follow road to facility entrance. Gated Entrance Locked. Call Operators to Open.
Guadalupe County, New Mexico

Entry Time /Date
12:00p.m. / May 31, 2013

Permit Effective Date
September 1, 2011

Exit Time/Date
16:30 / May 31, 2013

Permit Expiration Date
August 31, 2016

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)
Mark Micelli, Wastewater Superintendent, (575) 799-8888 (cell)
Onofre Cordova, Operator, phone NA
Eric Aragon, Operator, phone NA
Ian Serrano, City Administrator (575) 472-3404

Other Facility Data

SIC 4952

N 34°55.559'
W -104°40.937' (at outfall)

Name, Address of Responsible Official/Title/Phone and Fax Number
Mayor Albert Campos /(575) 472-3404
City of Santa Rosa
PO Box 429
Santa Rosa, NM 88435

Contacted
Yes [ ] No [*]

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	S	Flow Measurement	S	Operations & Maintenance	N	CSO/SSO
S	Records/Reports	S	Self-Monitoring Program	S	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	S	Laboratory	N	Storm Water	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

See the Further Explanation Section of the report for details.

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
/s/ Barbara Cooney	NMED/SWQB 505-827-0187 / 505-827-0160	June 28, 2013
Signature of Management QA Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date July 1, 2013**
/s/ Bruce Yurdin	NMED/SWQB 505-827-0187 / 505-827-0160	

SANTA ROSA, CITY OF - WWTP	PERMIT NO.NM0024988

SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS ☒ S ☐ M ☐ U ☐ NA (*FURTHER EXPLANATION ATTACHED **NO**)*

DETAILS:

1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	☒ Y ☐ N ☐ NA
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES	☒ Y ☐ N ☐ NA
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	☒ Y ☐ N ☐ NA
4. ALL DISCHARGES ARE PERMITTED	☒ Y ☐ N ☐ NA

SECTION B - RECORDKEEPING AND REPORTING EVALUATION

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. ☒ S ☐ M ☐ U ☐ NA (*FURTHER EXPLANATION ATTACHED **YES**)*

DETAILS:

1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.	☒ Y ☐ N ☐ NA
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.	☒ S ☐ M ☐ U ☐ NA
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	☒ Y ☐ N ☐ NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	☒ Y ☐ N ☐ NA
c) ANALYTICAL METHODS AND TECHNIQUES.	☒ Y ☐ N ☐ NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	☒ Y ☐ N ☐ NA
e) DATES AND TIMES OF ANALYSES.	☒ Y ☐ N ☐ NA
f) NAME OF PERSON(S) PERFORMING ANALYSES.	☒ Y ☐ N ☐ NA
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.	☒ S ☐ M ☐ U ☐ NA
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.	☒ S ☐ M ☐ U ☐ NA
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.	☒ Y ☐ N ☐ NA

SECTION C - OPERATIONS AND MAINTENANCE

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED **YES**)*

DETAILS:

1. TREATMENT UNITS PROPERLY OPERATED.	☒ S ☐ M ☐ U ☐ NA
2. TREATMENT UNITS PROPERLY MAINTAINED.	☒ S ☐ M ☐ U ☐ NA
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED.	☒ S ☐ M ☐ U ☐ NA
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	☒ S ☐ M ☐ U ☐ NA
5. ALL NEEDED TREATMENT UNITS IN SERVICE.	☒ S ☐ M ☐ U ☐ NA
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.	☒ S ☐ M ☐ U ☐ NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	☒ S ☐ M ☐ U ☐ NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.	☐ Y ☒ N ☐ NA
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED. ***The O& M manuals have not yet been provided to Operators from the Design Engineesr. SOPs have not been formalized.***	☐ Y ☒ N ☐ NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED. There is an emergency call out system as part of the facilty SCADA.	☐ Y ☒ N ☐ NA

SANTA ROSA, CITY OF - WWTP	PERMIT NO. NM0024988

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?	☐ Y ☒ N ☐ NA
IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED?	☐ Y ☐ N ☒ NA
HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	☐ Y ☐ N ☒ NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT?	☐ Y ☒ N ☐ NA
IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	☐ Y ☐ N ☒ NA

SECTION D - SELF-MONITORING

PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED **YES**).*
DETAILS:

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	☒ Y ☐ N ☐ NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	☒ Y ☐ N ☐ NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	☒ Y ☐ N ☐ NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	☒ Y ☐ N ☐ NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	☒ Y ☐ N ☐ NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	☒ Y ☐ N ☐ NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	☒ Y ☐ N ☐ NA
b) PROPER PRESERVATION TECHNIQUES USED.	☒ Y ☐ N ☐ NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	☒ Y ☐ N ☐ NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	☒ Y ☐ N ☐ NA

SECTION E - FLOW MEASUREMENT

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED **YES**)*
DETAILS:

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE	☒ Y ☐ N ☐ NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	☒ Y ☐ N ☐ NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	☒ Y ☐ N ☐ NA
4. CALIBRATION FREQUENCY ADEQUATE. *(DATE OF LAST CALIBRATION* None)	☒ Y ☐ N ☐ NA
RECORDS MAINTAINED OF CALIBRATION PROCEDURES.	☒ Y ☐ N ☐ NA
CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	☒ Y ☐ N ☐ NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	☒ Y ☐ N ☐ NA
6. HEAD MEASURED AT PROPER LOCATION.	☒ Y ☐ N ☐ NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	☒ Y ☐ N ☐ NA

SECTION F – LABORATORY

PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED **YES**)*
DETAILS:

1. EPA APPROVED ANALYTICAL PROCEDURES USED *(40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)*	☐ Y ☐ N ☒ NA

SANTA ROSA, CITY OF - WWTP	PERMIT NO. NM0024988

SECTION F - LABORATORY (CONT'D)

2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED ☐ Y ☐ N ☒ NA

3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. ☒ S ☐ M ☐ U ☐ NA

4. QUALITY CONTROL PROCEDURES ADEQUATE. ☐ S ☒ M ☐ U ☐ NA

5. DUPLICATE SAMPLES ARE ANALYZED. 10 % OF THE TIME. ☐ Y ☒ N ☐ NA

6. SPIKED SAMPLES ARE ANALYZED. 10 % OF THE TIME. ☐ Y ☒ N ☐ NA

7. COMMERCIAL LABORATORY USED. ☒ Y ☐ N ☐ NA

LAB NAME	Tucumcari WWTP Lab	American Interplex Laboratories
LAB ADDRESS	Post Office Box 1188 Tucumcari, NM 88401	800 Kanis Road Little Rock, Arkansas 72204
PARAMETERS PERFORMED	BOD, TSS, E. coli	WET

SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED **YES**).*

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	NO	NO	NO	NO	NO	CLEAR	

RECEIVING WATER OBSERVATIONS

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED **YES**).*
DETAILS:

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. ☒ S ☐ M ☐ U ☐ NA

2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. ☒ S ☐ M ☐ U ☐ NA

3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: Unknown (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

SECTION I - SAMPLING INSPECTION PROCEDURES *(FURTHER EXPLANATION ATTACHED **NO**).*

1. SAMPLES OBTAINED THIS INSPECTION. ☐ Y ☒ N ☐ NA

2. TYPE OF SAMPLE OBTAINED
GRAB _____ COMPOSITE SAMPLE ___ METHOD _____ FREQUENCY

3. SAMPLES PRESERVED. ☐ Y ☐ N ☒ NA

4. FLOW PROPORTIONED SAMPLES OBTAINED. ☐ Y ☐ N ☒ NA

5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. ☐ Y ☐ N ☒ NA

6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE. ☐ Y ☐ N ☒ NA

7. SAMPLE SPLIT WITH PERMITTEE. ☐ Y ☐ N ☒ NA

8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED. ☐ Y ☐ N ☒ NA

9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT. ☐ Y ☐ N ☒ NA

Introduction

On May 31, 2013 a Compliance Evaluation Inspection (CEI) was conducted at the City of Santa Rosa Wastewater Treatment Plant (WWTP) by Barbara Cooney of the State of New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB). The inspection was conducted by NMED for the US Environmental Protection Agency (USEPA), Region VI, under the National Pollutant Discharge Elimination System (NPDES) permit program, in accordance with the Federal Clean Water Act. These inspections are conducted under contract with the USEPA and are used by USEPA to evaluate compliance with the NPDES permit program. This inspection report is based on information supplied by the City of Santa Rosa representatives (the permittee), observations made by the NMED inspectors, reports and records kept by the permittee and/or NMED.

The Santa Rosa WWTP is classified as a minor municipal discharger under the Federal Clean Water Act (CWA), section 402 NPDES permit program, and is assigned NPDES permit number NM0024988. The Standard Industrial Classification Code (SIC) is 4952. The facility is permitted for a design flow of 0.44 Million Gallons per Day (MGD). The discharge for the WWTP enters El Rito Creek a tributary to the Pecos River in Water Quality Segment 20.6.4.212 NMAC at Latitude 34◦ 55” 33.24’North, Longitude 104◦ 40’ 55.2” West. The Designated Uses for this segment of the river are: irrigation, coldwater aquatic life, livestock watering, wildlife habitat and primary contact.

Inspection Details

The inspector arrived at the Santa Rosa WWTP at 1230 hours and met with Mr. Mark Micelli, Wastewater Supervisor and Mr. Onofre Cordova, Operator, showed her credentials and explained the purpose of the inspection. Mr. Micelli and Mr. Cordova accompanied the inspector on a tour of the facility. They were also joined by Mr. Eric Aragon, Operator. A records review and laboratory inspection was conducted later that day. An exit interview was conducted following the inspection at the town hall with Mr. Ian Serrano, City Administrator and Mr. Micelli. Preliminary findings were discussed during the exit interview. The inspector left the Town Hall at 1630 hours.

Treatment Scheme

This new WWTP has recently come on line, replacing the old lagoon system. Raw Sewage is delivered to the Santa Rosa Wastewater Treatment Plant (WWTP) through a collection system with five lift stations. The service area includes a population of approximately 2, 800 persons. Contributing industries include: restaurants, hotels, a hospital, a carwash, gas stations, laundromats, and schools. The permitted design flow of the WWTP is 0.44 MGD. The plant design is actually larger than the design flow used to establish permitted effluent loading limits due to the States Antidegradation requirements. The average daily flow fluctuates seasonally and dependent is
on hotel vacancies.

Septage is not accepted at this facility.

At the head of the treatment plant, the influent gravity flows to the automatic bar screen and a grinder for large solids removal. A second channel is available with a manual bar screen and was not in use at the time of the inspection. The majority of the treatment units are above ground due to the high water table in the area. Following the bar screens are a set of three Flygt pumps that lift the sewage to the aeration basins. The Flygt pumps are triggered by floats that sense the water level. The solids removed from the screens are dried and after passing the paint filter test, disposed of at the City of Tucumcari landfill. The treatment plant is

monitored with a SCADA control system. An alarm call out system is in place with the Operators phone numbers programed in. The facility has a backup diesel generator for power that is exercised weekly.
The liquid waste is sent to one of two oxidation ditch extended air treatment units. These are parallel trains. At the time of the inspection, only one set of oxidation ditches (the north units) were in operation. The south units were off line and had a few feet of water in the bottom, mostly from a recent rainstorm. The basins are 30 feet deep. Fine bubble diffusers at the bottom of the basins provide aeration. The basin is cycled through an aerated phase (120minutes) and an anoxic phase (120 minutes). Mixers are located approximately five feet from the bottom of the 30 foot basin.

The color of the water being treated in the basin was a healthy, rich brown. Operators indicated that they did not know the concentration of the Mixed Liquor Suspended Solids (MLSS) of the basin. Operators said a three foot sludge blanket is maintained. The healthy appearance of the aeration basin indicates that this is an adequate sludge level and sludge age being maintained in the basin. Solids are wasted to the aerobic digester every other day for 1 hour.

Following the oxidation ditches are two secondary clarifies. Only one secondary clarifier was in operation at the time of the inspection. The clarifier in use had an approximately 2 foot sludge blanket. Solids are wasted from the bottom of the clarifier to the aerobic digester.

Return Activated Sludge (RAS) is sent back to the head of the treatment plant.

Decant from the secondary clarifier is sent to the ultraviolet disinfection system, consisting of dual channels run in parallel, with a single bank of 6 lights per channel. Following disinfection is the effluent flow meter, Parshall flume with a staff gauge and an ultrasonic sensor that records the totalized flow.

The outfall at El Rito Creek is through an enclosed pipe.

Solids

Solids are wasted from the oxidation ditches and the clarifiers to an open air aerobic digester, then to the sludge drying beds. The three concrete drying beds have under drains and the water is sent back to the head of the plant. The facility has never done a final disposal of solids from the old lagoon system or from this new activated sludge process. The operator did not have a plan for final disposal after drying.

This facility is also regulated under the State of New Mexico, NMED Ground Water Quality Bureau (GWQB) Discharge Permit Number 665.

Further Explanations

Note: The sections are arranged according to the format of USEPA Form 3560-3 and checklist, attached, rather than being ranked in order of importance.

Permit

Overall Rating For Permit Verification (Satisfactory)

Record Keeping and Reporting

Overall Rating For Record Keeping and Reporting (Satisfactory)

Permit Requirements For Record Keeping and Reporting

The permit requires, in III. 5. Monitoring Procedures.

D. Reporting Requirements

7. TWENTY-FOUR HOUR REPORTING

a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. The report shall contain the following information:

(1) A description of the noncompliance and its cause;

(2) The period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and,

(3) Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.

b. The following shall be included as information which must be reported within 24 hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and,

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part II (industrial permits only) of the permit to be reported within 24 hours.

c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

Findings For Recordkeeping and Reporting

1. Records for the first quarter of year 2013 were reviewed as part of this inspection. The reviewed records appeared to be complete and reporting on Discharge Monitoring Reports (DMRs) was consistent with supporting documents. The permittee recently began reporting through the EPA – NetDMR system, rather than by reporting on paper copies of the DMRs. It is important for the permittee to continue to submit paper record to both the EPA and the State for those items that are not reported on DMRs, including: 24 hour reporting of sewer overflow, changes in the nature of the discharge and permit renewal applications.

2. Previous inspection reports noted concerns with variation of reported values. It appears these variations can be attributed to the use of rounding numbers when averaging values by the permittee. Attached to this report is the "*NPDES Reporting Requirements Handbook" revised August 25, 2004.* It is important for the permittee to round number only after the calculations for averages have been done. Do not round numbers for the sample results before averaging the total number set. See the attached guidance document for more information.

3. Sewer Overflows. The records reviewed showed no reporting of sanitary sewer overflows by the permittee. It is important for the permittee to report these incidents as required in the permit.

Operations And Maintenance

Overall Rating For Operation and Maintenance (Satisfactory)

Permit Requirements For Operation And Maintenance

The permit requires in Part III. B.

3. Proper Operations and Maintenance

a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner that which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the condition of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the opreation of back up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

b. The permittee shall provide an adequae oeprating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the condtions of this permit.

Findings For Operation and Maintenance

1. The facility is newly constructed and has been on line for several months. The final aproval and completion of the contract with the engineers and construction contractors is ongoing. The operators are now familiar with the treatment units and will need to be vigiliant to make certain all equipment and units are installed and operating properly.

2. Operation & Maintenance (O&M) Manuals have not been provided to the plant operators. It is necessary for the engineers to provide these as soon as possible.

3. Emergency operation plans need to be developed.

Self-Monitoring

Overall Rating For Self Monitoring (Satisfactory)

Permit Requirements For Self Monitoring

The permit requires in Part III. C. Monitoring and Records.

2. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

3. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. The period may be extended by request of the Director at any time.

Findings For Self Monitoring

1. There were no problems observed for the permittees self monitoring program.

Flow Measurement

Overall Rating For Flow Measurement (Satisfactory)

Permit Requirements For Flow Measurements:

The permit requires in Part III C. 6. FLOW MEASUREMENTS:
Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected, shall be capable of measuring flow with a maximum deviation 10% from true discharge tares throughout the range of expected discharge volumes.

Findings For Flow Measurements

The new Parshall flume, staff gauge and ultrasonic flow meter are installed properly. The flow meters were calibrated at installation. It is suggested that the permittee continue to check the instantaneous values of flow measurements from the ultrasonic sensor against the staff gauge and record those values on a regular basis.

Laboratory

Overall Rating For Laboratory (Satisfactory)

Permit Requirements For Laboratory

The perm requires in Part C. Monitoring and Records. 4. Records Content

Records of monitoring information shall include:

a. The date, exact place, and time of sampling or measurements;
b. The individual(s) who preformed the sampling or measurement;
c. The date(s) and time(s) analyses were performed;
d. The individual(s) who performed the analyses;
e. The analytical techniqueor method used; and
f. The results of such analyses.

The permit requires in Part C. Monitoring and Records. 5. Monitoring Procedures

a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator.
b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.
c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory.

Findings For Laboratory

1. The onsite laboratory is used for pH, Total Residual Chlorine (TRC) when used and Settelable Solids. The methods used, buffers, and equipment were well maintained and stored properly.

2. Sample collection, preservation, storage & transportation and chain of custody to the contract laboratory were observed to be consistent with permit requirements.

2. No Duplicate samples were analyzed for quality control at the onsite laboratory. The samples sent to the City of Tucumcari WWTP laboratory were not evaluated for quality control in this inspecion.

Effluent And Receiving Water

Overall Rating For Effluent And Receiving Water (Satisfactory)

Findings For Effluent And Receiving Water

Since the time the new WWTP has been on line, there have been no effluent exceedences reported. The records reviewed as part of this inspection support this.

SLUDGE HANDLING

Overall Rating For Sludge Handling (Satisfactory)

Findings For Sludge Handling

The facility has not sent sludge for final disposal at this time. A solids disposal plan needs to be developed.

NMED/SWQB Official Photograph Log Photo # 1		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1219 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Influent automatic bar screen with a grinder unit to remove large solids from entering the treatment works.		

NMED/SWQB Official Photograph Log Photo # 2		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1225 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Lift station at head works of WWTP with 3 Flygt pumps, activated by floats that detect the height of the water level.		

NMED/SWQB Official Photograph Log Photo # 3		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1249 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: SCADA – WWTP control system		

NMED/SWQB Official Photograph Log Photo # 4		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1249 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: SCADA WWTP control system shows every treatment unit and the phase of operation for each.		

NMED/SWQB Official Photograph Log Photo # 5		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1227 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: View from the head works towards the aeration basins, in the background of the photo. The basins are above ground due to the high groundwater level at this site.		

NMED/SWQB Official Photograph Log Photo # 6		
Photographer: B. Cooney	Date: May 31, 2013	Time: 12:29 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Oxidation ditch. The basin is 30 feet deep. Fine bubble diffusers at the bottom of the basin, aerate the units on a cyclic basis. The color of the water being treated in the basin was a healthy, rich brown. Operators indicated that they did not know the MLSS of the basin. Operators said, a three foot sludge blanket is maintained. Solids are wasted to the aerobic digester every other day for 1 hour.		

NMED/SWQB Official Photograph Log Photo # 7		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1240 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Another view of the aeration basin. The basin is cycled through an aerated phase (120minutes) and an anoxic phase (120 minutes). Mixers are located approximately five feet from the bottom of the 30 foot basin.		

NMED/SWQB Official Photograph Log Photo # 8		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1241 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Post aeration basin in the foreground of the photo and three sludge drying beds in the mid ground of the photo.		

NMED/SWQB Official Photograph Log Photo # 9		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1230 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: The second aeration basin is offline. The mixer in the basin is being worked on. The treatment units are still under warranty. Additionally, the volume of the water being treated at the time only requires the use of one basin.		

NMED/SWQB Official Photograph Log Photo # 10		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1244 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Blowers		

NMED/SWQB Official Photograph Log Photo # 11		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1253 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Parallel Clarifiers following the oxidation ditches -		

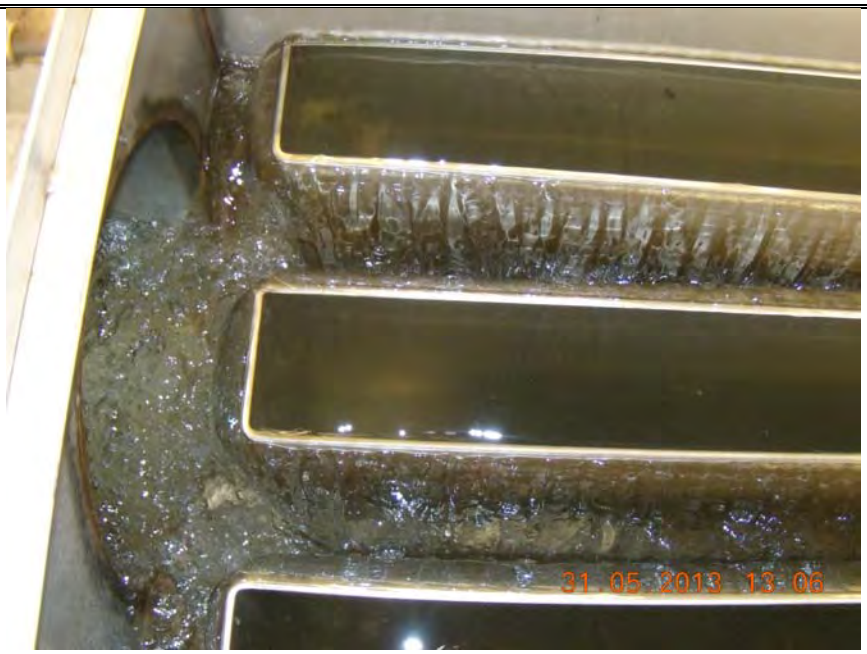
NMED/SWQB Official Photograph Log Photo # 12		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1255 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Clarifier. The day of the inspection was windy and the water surface was blowing. It was not possible to evaluate the potential for short circuiting in the unit. The weirs had been cleaned earlier in the day and were, for the most part free of algae, or solids that could cause interference with the flow. Operators indicated that the weirs are cleaned as needed weekly or more frequently during the hot summer when algae growth accelerates. The sludge judge was broken at the time of the inspection, so operators could not show the solids blanket level to the inspector. The Operators stated that they intend to maintain a three foot sludge blanket. The location is frequently windy and holding the sludge judge up to test, results in the wind snapping the equipment. The clarifier basin is 30 feet deep.		

NMED/SWQB Official Photograph Log Photo # 13		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1259 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Clarifier and sludge drying beds		

NMED/SWQB Official Photograph Log Photo # 14		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1306 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Ultra Violet disinfection unit – one of two trains run parallel. UV lights cleaned two times per week.		

NMED/SWQB Official Photograph Log Photo # 15		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1308 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Light transmittance in the Ultra Violet Disinfection Chamber is 65.8% - the water is very slightly turbid because the secondary clarifiers were just scrubbed and some floating algae is passing through the treatment unit. Operators had clean the light bulbs twice weekly or more frequently as needed.		

NMED/SWQB Official Photograph Log Photo # 16		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1306 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: End of the Ultra Violet Disinfection Chamber. Effluent is clear. Turbidity from the cleaned secondary clarifiers is only slightly visible to the eye.		



NMED/SWQB Official Photograph Log Photo # 17		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1429 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Reuse pumps at effluent flow channel are located before the place where final effluent flow reading are taken at the Parshall Flume.		

NMED/SWQB Official Photograph Log Photo # 18		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1427 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Flow Measurement at the Parshall Flume w/ Staff Gauge and Ultrasonic Flow Meter. The flow is free of turbulence and is a good representation of laminar flow.		

NMED/SWQB Official Photograph Log Photo # 19		
Photographer: B. Cooney	Date: May 31, 2013	Time: 1213 Hours
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: WWTP outfall pipe to El Rito Creek. Effluent is clear and free of floating solids. Some algae mats were observed upstream and downstream of the outfall.		

NMED/SWQB Official Photograph Log Photo # 20		
Photographer: B. Cooney	Date: May 31, 2013	Time:
City/County: Santa Rosa, Guadalupe		State: New Mexico
Location: Santa Rosa Wastewater Treatment Plant		
Subject: Onsite Laboratory, pH, settable solids, and TRC (when used) are tested on site. The other permit samples are sent to the City of Tucumcari WWTP Laboratory or to Bio Aquatic