



NEW MEXICO
ENVIRONMENT DEPARTMENT



Surface Water Quality Bureau

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RON CURRY
Secretary
SARAH COTTRELL
Deputy Secretary

Certified Mail - Return Receipt Requested

August 12, 2010

Sue Padilla
Utilities Director
845 N. Motel Blvd.
Las Cruces, New Mexico 88007

Re: Minor-Municipal, SIC 4952, NPDES Compliance Evaluation, Salem, Wastewater Treatment Plant,
NM0030457, July 14, 2010

Dear Sue Padilla,

Enclosed, please find a copy of the report and check list 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 Federal Clean Water Act.

Introduction, treatment scheme, and problems noted during this inspection are discussed in the Further Explanations section of the inspection report. The main problems were found in the area Record Keeping & Reporting, and Operations & Maintenance. You are encouraged to review the inspection report, 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 the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Diana McDonald
US Environmental Protection Agency, Region VI
Enforcement Branch (6EN-WM)
Allied Bank Tower
1445 Ross Avenue
Dallas, Texas 75202-2733

Program Manager
New Mexico Environment Department
Surface Water Quality Bureau
Point Source Regulation Section
P.O. Box 5469
Santa Fe, New Mexico 87502

If you have any questions about this inspection report, please contact me at (505) 827-2575 or daniel.valenta@state.nm.us.

Sincerely,

/S/ Daniel Valenta

Daniel Valenta
Environmental Scientist/Specialist
Surface Water Quality Bureau

Cc: Marcia Gail Bohling, EPA, Enforcement Section (6EN-AS) by e-mail
Samuel Tate, EPA (6SF) by e-mail
Carol Peters-Wagnon, EPA (6EN-WM) by e-mail
Diana McDonald, EPA (6EN-WM) by e-mail
Larry Giglio, EPA (6WQ-PP) by e-mail
Frank Fiore, Acting, NMED District III (Las Cruces) by e-mail



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 3 0 4 5 7 11 12 1 0 0 7 1 4 17 18 C 19 S 20 1					
Remarks					
M I N O R	W W T P	-----Reserved-----			
Inspection Work Days	Facility Evaluation Rating	BI	QA		
67 [] [] [] 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) Salem Wastewater Treatment Plant	Entry Time /Date 1230/July 14, 2010	Permit Effective Date September 1, 2008
	Exit Time/Date 1510/July 14, 2010	Permit Expiration Date August 31, 2013
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Dale Antresin/Operator/575-635-5634 Kurt Moffatt, Operations Manager, 575-635-5634, fax 575-233-2195	Other Facility Data LAT 32° 41' 36" N LONG 107° 12' 30" W SIC 4952	
Name, Address of Responsible Official/Title/Phone and Fax Number Sue Padilla/845 N. Motel Blvd., Las Cruces, New Mexico 88007/ Utilities Director/575-647-7142 fax 575-525-6199	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Section C: Areas Evaluated During Inspection

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

S	Permit	S	Flow Measurement	M	Operations & Maintenance	N	CSO/SSO
M	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)

1. SEE REPORT AND FURTHER EXPLANATIONS.

Name(s) and Signature(s) of Inspector(s) DANIEL VALENTA /S/ Daniel Valenta	Agency/Office/Telephone/Fax NMED/SWQB 505-827-2575	Date 8/12/2010
Signature of Management QA Reviewer RICHARD E. POWELL /S/ Richard Powell	Agency/Office/Phone and Fax Numbers NMED/SWQB 505-827-0418	Date 8/12/2010

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 N
No backup power on site, portable generators are available if needed
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. **Operator level 4 & 1** S M U NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED. **Some spare parts on site.** S M U NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE. Y N NA
 STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED. Y N NA
 PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED. Y N NA

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?
 IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED?
 HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?

Y N NA
 Y N NA
 Y N NA

10. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT?
 IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?

Y N NA
 Y N NA

SECTION D - SELF-MONITORING

PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS.
 DETAILS:

S M U NA (FURTHER EXPLANATION ATTACHED No.)

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.
 DETAILS:

S M U NA (FURTHER EXPLANATION ATTACHED No)

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.

Y N NA

TYPE OF DEVICE **4" Parshall Flume & ISCO Ultrasonic flow meter**

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) **Flume gauge scale recorded when sample taken.**
 RECORDS MAINTAINED OF CALIBRATION PROCEDURES.
 CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.

Y N NA
 Y N NA
 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.
 DETAILS:

S M U NA (FURTHER EXPLANATION ATTACHED no.)

1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)

Y N NA

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. **Only pH reading taken on site.** S M U NA
4. QUALITY CONTROL PROCEDURES ADEQUATE. S M U NA
5. DUPLICATE SAMPLES ARE ANALYZED. 100 % OF THE TIME. Y N NA
6. SPIKED SAMPLES ARE ANALYZED. % OF THE TIME. Y N NA
7. COMMERCIAL LABORATORY USED. Y N NA
- LAB NAME **WATER TECHNOLOGY ASSOCIATES** **DONA ANN COUNTY UTILITIES**
 LAB ADDRESS **3501 MESILLA HILLS DR., LAS CRUCES, NM** **845 N. MOTEL BLVD, LAS CRUCES, NM**
 PARAMETERS PERFORMED TSS, E-Coli. **E-coli, BOD**

SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. S M U NA (FURTHER EXPLANATION ATTACHED no.)

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	NO	NO	Clear	NO	NO	NO	No Smell

RECEIVING WATER OBSERVATIONS:

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED no.)
 DETAILS: **Sludge taken to Las Cruces landfill.**

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: _____ (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

**Compliance Evaluation Inspection
Salem Wastewater Treatment Facility
NPDES Permit No. NM0030457
July 14, 2010**

Introduction

On July 14, 2010 a Compliance Evaluation Inspection (CEI) was conducted at the Salem Wastewater Treatment Plant (WWTP) located near Salem, New Mexico by Mr. Daniel Valenta of the State of New Mexico Environment Department (NMED). This facility is classified as a minor municipal domestic discharger under the federal Clean Water Act (CWA), Section 402 National Pollutant Discharge Elimination System (NPDES) permit program and is assigned permit number NM0030457. The facility has a design capacity of 0.20 million gallons per day (MGD).

The Salem WWTP discharges into Rio Grande in Segment 20.6.4.101 NMAC of the Lower Rio Grande River Basin NMAC (*State of New Mexico Standards for Interstate and Intrastate Surface Water*). Segment 20.6.4.101 has an USEPA-approved Total Maximum Daily Load (TMDL) established for E-coli bacteria. Designated uses of this segment are irrigation, marginal aquatic life, livestock watering, wildlife habitat, and secondary contact.

The NMED performs a certain number of CEI's for the U.S. Environmental Protection Agency (USEPA) each year. The purpose of this inspection is to provide USEPA with information to evaluate the permittee's compliance with the NPDES permit. This report is based on review of files maintained by the permittee and NMED, on-site observation by NMED personnel, and verbal information provided by the permittee's representative. Findings of the inspection are detailed on the attached EPA form 3560-3 and in the narrative Further Explanations section of the report.

The inspector arrived at the Salem WWTP at 1230 hours on July 14, 2010. The Operations Manager, Mr. Kurt Moffatt, was contacted by phone but was not available on the day of the inspection. The WWTP Operator, Dale Antresinin was contacted by Mr. Moffatt and joined the Inspector at the plant. No documents are kept at the facility for review. Lab results and bench sheets were requested and supplied from the Water Utilities Department in Las Cruces the following week. An exit interview was held at the facility with Dale Antresinin and Mr. Moffatt, on the phone, on July 14, 2010 at 1510 to review preliminary finding.

Treatment Plant Description

Raw sewage from approximately 250 homes is collected in a lift station located northeast of the plant and pumped to the entrance works. In an emergency situation such as power failure, influent can be pumped directly to the SRB basins with the aid of portable generators and pumps.

The facility consists of two Sequencing Batch Reactors (SRBs) designed to treat an average of 200,000 gpd wastewater collected from the Communities of Salem and Ogaz. At the entrance works, raw sewage passes through a manual bar screen, manual grit chamber, and Parshall flume. Depending on the SBR cycling times, influent then enters either Aqua Aerobics reactor. Both reactors are equipped with a bank of air diffusers on the west side and a mixer on the east side. During the fill cycle for one reactor, the other reactor is either in a treatment cycle or decant mode.

**Compliance Evaluation Inspection
Salem Wastewater Treatment Facility
NPDES Permit No. NM0030457
July 14, 2010**

The facility utilizes the following phase times within the SBR basins: anoxic fill with mixing 30 minutes; aerated fill 150 minutes; aeration 30 minutes; settling 120 minutes; and sludge wasting, decant and idle 30 minutes. These periods have been adjusted over time to enhance plant efficiency. Four, six-hour cycles are run in each SBR basin per day. The decanted flow passes to the equalization basin, which has been partially covered to prevent algal build-up and then flows to the Infilco Degremont, Inc. UV disinfection unit. This unit contains 20 lamps. Effluent flow is measured by a 4" Parshall flume in conjunction with an ISCO Model 4210 ultrasonic flow meter with a totalizer and is then discharged to the Rio Grande. Sludge is wasted four times a day at a rate of 99 gallons per minute. SBR #1 wastes for 0.5 minutes per cycle and SBR #2 wastes for 0.6 minutes per cycle. Waste activated sludge is pumped to the Aqua Aerobics aerobic digester for dewatering and thickening. The thickened sludge is pumped to one of four concrete paved sludge drying beds as necessary (usually once per month). Supernatant from both sludge bed bottoms drain back to the reactors. Solids removed from the drying beds are shipped to Las Cruces landfill for final disposal.

The plant operators visit the facility everyday, for at least three to four hours, including weekends. The staff performs general maintenance and checks around the facility. During the remaining hours, the facility is monitored on an "on-call" basis. The facility operates 24 hours a day, regularly alternating each batch reactor on predetermined schedule.

**Compliance Evaluation Inspection
Salem Wastewater Treatment Facility
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July 14, 2010**

Further Explanations

Section B-Recordkeeping & Reporting Evaluation-Overall Rating of “Marginal”

1. Permit Requirements – for Recordkeeping and Reporting Evaluation

Part I.A. of the permit has a 30 Day Average (mg/l), 7 Day Average (mg/l), and a 30-Day Average loading (lbs/day) requirement for BOD and TSS.

Total mass (lbs/day) = (flow) x (8.34) x (concentration (mg/l))

A review of analytical results for January, February, and March of 2009 was conducted after the inspection using records maintained by the permittee for outfall 001. No permit limits were exceeded during the reviewed time period.

Reporting Period: From January 1, 2009 to March 30, 2009

Parameters Checked: BOD5, TSS, E-coli

BOD5			
	<i>30 Day Average mg/l</i>	<i>7-Day Average mg/l</i>	<i>30-Day Average lbs/day</i>
Reported January Values	1.71	2.30	0.570
Calculated Values	1.86	2.30	0.612
Reported February Values	2.09	2.53	0.77
Calculated Values	2.08	2.53	0.643
Reported March Value	2.07	2.85	0.83
Calculated Value	2.06	2.85	0.803

The 30-Day Average (lbs/day) loading values for the months of January, February, and March 2009 appear to be calculated incorrectly. The 30 Day average (mg/l) for the month of January appears to be calculated incorrectly. This may be due to a rounding error with the flow measurements. **This is a repeat finding of the 2005 inspection.**

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BOD5 30-Day Average mg/l

January = 1.42 mg/l + 2.30 mg/l = 3.72/2 = 1.86 mg/l
 February = 1.64 mg/l + 2.53 mg/l = 4.17/2 = 2.08 mg/l
 March = 2.85 mg/l + 1.28 mg/l = 4.13/2 = 2.06 mg/l

BOD5 30 Day Average lbs/day

January 7 – (0.037 MGD) (1.42 mg/l) (8.34 lbs/gal) = 0.438 lbs/day
 January 21– (0.041 MGD) (2.30 mg/l) (8.34 lbs/gal) = 0.786 lbs/day

0.438 lbs/day + 0.786 lbs/day = 1.224/2 = 0.612 lbs/day

February 4– (0.040 MGD) (1.64 mg/l) (8.34 lbs/gal) = 0.547 lbs/day
 February 18–(0.035 MGD) (2.53 mg/l) (8.34 lbs/gal) = 0.739 lbs/day

0.547 lbs/day + 0.739 lbs/day = 1.286/2 = 0.643 lbs/day

March 4– (0.046 MGD) (2.85 mg/l) (8.34 lbs/gal) = 1.093 lbs/day
 March 18–(0.048 MGD) (1.28 mg/l) (8.34 lbs/gal) = 0.512 lbs/day

1.093 lbs/day + 0.512 lbs/day = 1.605/2 = 0.803 lbs/day

TSS			
	<i>30 Day Average mg/l</i>	<i>7-Day Average mg/l</i>	<i>30-Day Average lbs/day</i>
Reported January Values	3.75	4.80	1.25
Calculated Values	3.75	4.80	1.24
Reported February Values	4.05	4.80	1.49
Calculated Values	4.05	4.80	1.25
Reported March Value	6.08	8.40	2.43
Calculated Value	6.08	8.40	2.36

The 30-day average loading values for the months of February and March appear to be calculated incorrectly. This may be due to a rounding error with the flow measurements.

**Compliance Evaluation Inspection
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TSS 30-Day Average mg/l

January = 2.7 mg/l + 4.8 mg/l = 7.50/2 = 3.75 mg/l
February = 3.30 mg/l + 4.80 mg/l = 8.10/2 = 4.05 mg/l
March = 8.40 mg/l + 3.75 mg/l = 12.5/2 = 6.08 mg/l

TSS 30-Day Average lbs/day

January 7 – (0.037 MGD) (2.7 mg/l) (8.34 lbs/gal) = 0.83 lbs/day
January 21– (0.041 MGD) (4.80 mg/l) (8.34 lbs/gal) = 1.64 lbs/day

0.83 lbs/day + 1.64 lbs/day = 2.47/2 = 1.24 lbs/day

February 4– (0.040 MGD) (3.30 mg/l) (8.34 lbs/gal) = 1.10 lbs/day
February 18–(0.035 MGD) (4.8 mg/l) (8.34 lbs/gal) = 1.40 lbs/day

1.10 lbs/day + 1.40 lbs/day = 2.50/2 = 1.25 lbs/day

March 4– (0.046 MGD) (8.40 mg/l) (8.34 lbs/gal) = 3.22 lbs/day
March 18–(0.048 MGD) (3.75 mg/l) (8.34 lbs/gal) = 1.50 lbs/day

3.22 lbs/day + 1.50 lbs/day = 4.72/2 = 2.36 lbs/day

E-coli		
	<i>30 Day Average cfu/ml</i>	<i>Daily Max cfu/ml</i>
Reported January Values	19.0	360
Calculated Values	19.0	360
Reported February Values	1.0	1.0
Calculated Values	1.0	1.0
Reported March Value	1.0	1.0
Calculated Value	1.0	1.0

E-coli values have been reported correctly for the months reviewed.

Salem NM0030457

Date	BOD	BOD	BOD	pH	pH	TSS	TSS	TSS	TSS	Q	Q	TRC	E coli	E-Coli
	30-Day Ave 50 lbs/day	30 Day Ave 30 mg/l	7 Day Ave 45 mg/l	6.60	9.00	30-Ave 50 lbs/day	30-Day Ave 30 mg/l	7 Day Ave 45 mg/l	30 Day Ave MGD	Daily Max MGD	Inst Max 11 ug/l	30-Day Ave 126 cfu/ml	Daily Max 410 cfu/ml	
3/1/10	1.41	4.58	6.06	7.59	7.92	1.72	5.59	6.25	0.037	0.044	n/a	1.0	1.0	
2/1/10	0.57	2.20	2.70	7.64	7.74	1.07	4.13	4.17	0.031	0.040	n/a	1.0	1.0	
1/1/10	1.16	3.86	4.15	7.38	7.45	2.87	9.55	11.76	0.036	0.039	n/a	12.9	18.2	
12/1/09	0.69	3.19	3.73	7.34	8.03	1.29	5.94	6.00	0.026	0.040	n/a	3.4	11.7	
11/1/09	0.63	2.59	3.43	7.27	7.66	1.07	4.41	7.27	0.029	0.051	n/a	10.5	30.6	
10/1/09	0.55	1.93	2.04	7.13	7.40	1.80	6.34	8.06	0.034	0.050	n/a	3.7	10.0	
9/1/09	15.83	5.70	10.16	7.72	7.74	15.83	5.70	6.41	0.333	0.445	n/a	14.3	17.0	
8/1/09	8.44	2.86	4.05	7.73	7.75	24.09	8.16	8.51	0.354	0.483	n/a	5.5	30.0	
7/1/09	4.38	1.32	1.44	7.27	7.68	14.54	4.38	5.00	0.398	0.513	n/a	1.0	1.0	
6/1/09	0.08	1.48	1.96	7.66	7.80	1.10	2.13	2.25	0.062	0.084	n/a	1.0	1.0	
5/1/09	1.40	2.37	2.74	7.63	8.06	1.81	3.05	4.17	0.071	0.087	n/a	3.3	11.0	
4/1/09	0.59	1.32	1.56	6.63	7.54	MISSING	3.32	3.32	0.054	0.067	n/a	2.7	7.2	
3/1/09	0.83	2.07	2.85	7.48	7.77	2.43	6.08	8.40	0.048	0.062	n/a	1.0	1.0	
2/1/09	0.77	2.09	2.53	7.74	7.80	1.49	4.05	4.80	0.044	0.066	n/a	1.0	1.0	
1/1/09	0.57	1.71	2.30	7.83	7.86	1.25	3.75	4.80	0.040	0.046	n/a	19.0	360.0	
12/1/08	0.39	1.65	2.03	7.86	7.89	0.97	4.15	5.20	0.028	0.048	n/a	1.0	1.0	
11/1/08	0.25	1.60	2.11	7.54	7.86	0.81	5.09	6.40	0.019	0.025	n/a	1.0	1.0	
10/1/08	0.34	1.53	1.95	7.75	7.82	0.09	4.13	4.55	0.027	0.044	n/a	1.0	1.0	
9/1/2008	0.43	1.83	1.92	6.93	7.1	0.47	2.03	2.2	0.028	0.035	n/a	1	1	
8/1/2008	0.26	0.94	1	7.69	7.9	1.03	3.76	4.49	0.033	0.049	n/a			
7/1/2008	0.76	2.08	2.84	6.96	7	1.12	3.04	3.57	0.044	0.066	n/a			

**Compliance Evaluation Inspection
Salem Wastewater Treatment Facility
NPDES Permit No. NM0030457
July 14, 2010**

2. Per Part III, C, 5, b, MONITORING PROCEDURES, *“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.”*

The #10 pH buffer calibration fluid was out of date. It was noted during the inspection that the pH meter used on site needed to be serviced or replaced. The present meter was having problems calibrating under the technique outlined in Standard Methods.

Section C – Operations and Maintenance: “Marginal”

1. Per Part III, B, 3, a, b, PROPER OPERATION AND MAINTENANCE, *“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 which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation 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.”*

The WWTP uses UV light to kill bacteria before discharging to the Rio Grande. To be effective the light has to penetrate through the water. Any accumulation of solids on the bulbs or in the chamber will affect the efficiency of the treatment unit. Upon inspection there was an accumulation of solids in the UV chamber that needs to be cleaned.