



NEW MEXICO  
ENVIRONMENT DEPARTMENT



*Surface Water Quality Bureau*

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DAVE MARTIN  
Secretary

RAJ SOLOMON, P.E.  
Deputy Secretary

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Certified Mail – Return Receipt Requested

July 21, 2011

Mr. Byron J. Landfair, Infrastructure Director  
City of Artesia  
612 N. Roselawn Street  
Post Office Box 1310  
Artesia, NM 88211-1310

RE: Major Municipal; SIC 4952; NPDES Compliance Evaluation Inspection; Artesia Wastewater Treatment Plant; NPDES Permit No. NM0022268; July 6, 2011

Dear Mr. Landfair:

Enclosed, please find a copy of the report and checklist 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 and treatment scheme are discussed in the Further Explanations section of the inspection report. 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)  
Suite 1200  
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) 827-1041 or [sandra.gabaldon@state.nm.us](mailto:sandra.gabaldon@state.nm.us)

Sincerely,

Sandra Gabaldón  
Surface Water Quality Bureau

Cc: Marcia Gail Adams, EPA, Enforcement Section (6EN-AS) by e-mail  
Larry Giglio, EPA (6EN-P) by e-mail  
Carol Peters-Wagnon, EPA (6EN-WM) by e-mail  
Diana McDonald, EPA (6EN-WM) by e-mail  
Samual Tates, EPA, (6W-AS) by e-mail  
NMED District III 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	2	2	2	6	8	11	12	1	1	0	7	0	6	17	18	C	19	S	20	1	
Remarks																													
M A J O R M U N I C I P A L																													
Inspection Work Days						Facility Evaluation Rating						BI		QA		Reserved													
67	0	0	1	69	70	3	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) <b>ARTESIA WASTEWATER TREATMENT PLANT - Northeast corner of the intersection of State Route 229 (Handleman Road) and 357 (Richey Avenue).</b>		Entry Time /Date <b>1110 hours / 07-06-2011</b>	Permit Effective Date <b>JUNE 1, 2007</b>
EDDY COUNTY		Exit Time/Date <b>1345 hours / 07-06-2011</b>	Permit Expiration Date <b>APRIL 30, 2012</b>
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) <b>Michael Stroud , Wastewater Supervisor (575) 746-9821</b>			Other Facility Data
Name, Address of Responsible Official/Title/Phone and Fax Number <b>Mr. Bryon J. Landfair, Infrastructure Director City of Artesia 612 N. Roselawn Street Post Office Box 1310 Artesia, NM 88211-1310</b>			<b>GPS: N. 32.86291° W. -104.34847°  SIC: 4952</b>
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	S	Operations & Maintenance	N	CSO/SSO
S	Records/Reports	S	Self-Monitoring Program	S	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	S	Compliance Schedules	S	Pretreatment	N	Multimedia
N	Effluent/Receiving Waters	S	Laboratory	N	Storm Water	N	Other:

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

- See attached checklist and further explanation report.

Name(s) and Signature(s) of Inspector(s) <b>SANDRA GABALDON</b>	Agency/Office/Telephone/Fax <b>NMED/SWQB (505) 827-1041</b>	Date <b>JULY 21, 2011</b>
Signature of Management QA Reviewer <b>RICHARD E. POWELL</b>	Agency/Office/Phone and Fax Numbers <b>NMED / SURFACE WATER QUALITY BUREAU (505) 827-2798</b>	Date <b>JULY 21, 2011</b>

## SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS  
DETAILS: S  M  U  NA (FURTHER EXPLANATION ATTACHED NO)

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.  
DETAILS: S  M  U  NA (FURTHER EXPLANATION ATTACHED NO)

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.  
DETAILS: S  M  U  NA (FURTHER EXPLANATION ATTACHED NO)

1. TREATMENT UNITS PROPERLY OPERATED.

 S  M  U  NA

2. TREATMENT UNITS PROPERLY MAINTAINED.

 S  M  U  NA3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED. **3,000 GALLON DIESEL GENERATOR** S  M  U  NA4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE. **DIAL OUT ALARM SYSTEM** S  M  U  NA5. ALL NEEDED TREATMENT UNITS IN SERVICE – **ULTRAVIOLET DISINFECTION OFFLINE.** S  M  U  NA6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED. - **7 OPERATORS, ONE LAB TECH** 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.

 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?  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 NO).  
 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'S LAST DISCHARGE WAS IN MARCH 2011

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED NO).  
 DETAILS: **PERMITTEE IS CURRENTLY NOT DISCHARGING.**

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.  Y  N  NA  
 TYPE OF DEVICE 12" PARSHALL FLUME

2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED. - **FLOW IS MEASURED WHEN DISCHARGE IS OCCURRING**  Y  N  NA

3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED. - **ULTRASONIC TOTALIZER**  Y  N  NA

4. CALIBRATION FREQUENCY ADEQUATE. - **LAST CALIBRATION - 03/01/2011**  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. - **FACILITY IS NOT DISCHARGING AT THIS TIME.**  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 NO).  
 DETAILS:

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.  S  M  U  NA
4. QUALITY CONTROL PROCEDURES ADEQUATE.  S  M  U  NA
5. DUPLICATE SAMPLES ARE ANALYZED.  $\geq 10$  % OF THE TIME - **WHEN DISCHARGING**.  Y  N  NA
6. SPIKED SAMPLES ARE ANALYZED.  $\geq 10$  % OF THE TIME - **WHEN DISCHARGING**.  Y  N  NA
7. COMMERCIAL LABORATORY USED.  Y  N  NA

LAB NAME Huther and AssociatesLAB ADDRESS 1156 N. Bonnie Brae Street; Denton, TX 76201PARAMETERS PERFORMED Whole Effluent Toxicity**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 DISCHARGE						

RECEIVING WATER NOT OBSERVATIONS PERMITTEE HAS DISCHARGED SINCE MARCH 2011**SECTION H - SLUDGE DISPOSAL**SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED NO.)  
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: agricultural (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 NATURE 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

Artesia Wastewater Treatment Plant  
Compliance Evaluation Inspection  
NPDES Permit No. NM0022268  
July 6, 2011

**Further Explanations**

**Introduction**

A compliance evaluation inspection (CEI) was conducted at the Artesia Wastewater Treatment Plant (WWTP) on July 6, 2011, by Sandra Gabaldón of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB). The inspection was conducted by NMED for the U.S. Environmental Protection Agency (USEPA), Region 6, under the National Pollutant Discharge Elimination System (NPDES) permit program. The enclosed inspection report is based on verbal information provided by the permittee's representative, Mr. Michael Stroud, Wastewater Supervisor, observations made by the NMED inspector, and a review of records maintained by the permittee and/or NMED. Findings of the inspection are detailed on the attached EPA form 3560-3 checklist.

The Artesia WWTP is classified as a major municipal discharger with a design flow of 1.3 million gallons a day (MGD) and is assigned NPDES permit number NM0022268. The discharge from the WWTP is into the Pecos River, when discharging. Discharges are sporadic in nature, due to the growing season in Artesia. The last discharge this facility made was in March 2011. The designated uses for this segment, 20.6.4.206, (*Interstate and Intrastate Surface Waters, 20.6.4 NMAC*) include: irrigation, livestock watering, wildlife habitat, secondary contact and warmwater aquatic life.

Ms. Gabaldón arrived at the facility at 1110 hours on July 6, 2011. Ms. Gabaldón presented her credentials and explained the purpose of the inspection. Ms. Gabaldon held the exit conference with Mr. Stroud at the facility from approximately 1330 hours to 1345 hours.

**Treatment Scheme**

Influent enters the plant through a lift station where it goes through a bar screen. It then enters one of two biological-denitrification basins, and then flows into a secondary clarifier. Flow then continues to a baffled chlorine contact chamber. The ultraviolet light disinfection system will be available soon to this facility. The effluent leaves the chlorine contact chamber and enters a holding pond where it remains until demand for the reclaimed wastewater is needed.

**Sludge**

There are two sludge drying beds and a dedicated composting/storage area. The compost is used for agricultural application.