NEW MEXICO
ENVIRONMENT DEPARTMENT

Surface Water Quality Bureau

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Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

JAMES H. DAVIS, Ph.D.
Director
Resource Protection Division

Certified Mail - Return Receipt Requested

4 April 2012

Mr. John Arrowsmith
Utilities Manager
P.O. Drawer 1030
Los Alamos, NM 87544

Re: Minor Municipal; SIC 4952; NPDES Compliance Evaluation Inspection; Los Alamos County Wastewater Treatment Plant; NM0020133; March 6, 2012

Dear Mr. Arrowsmith:

Enclosed, please find a copy of the report for the referenced inspection that the New Mexico Environment Department (NMED) Surface Water Quality Bureau (SWQB) 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.

Problems noted during this inspection 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.

I wish to thank you for the cooperation of Los Alamos County Representatives, including Mr. Jeff Ayers, Ms. Jennifer Baca, Mr. Tom Sanchez and Mr. Jeremy Martinez during this inspection. If you have any questions about this inspection report, please contact me at (505) 827-0212.

Sincerely,

/s/ Barbara Cooney

Barbara Cooney
Surface Water Quality Bureau

cc: Marcia Gail Adams, USEPA (6EN-AS) by e-mail
Samuel Tates, USEPA (6EN-AS) by e-mail
Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail
Diana McDonald, USEPA (6EN-WM) by e-mail
Larry Giglio, USEPA (6WQ-PP) by e-mail
Sonia Hall and Hannah Branning, USEPA (6EN-WC) by e- mail
NMED District II Manager by e-mail

EPA

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

NPDES Compliance Inspection Report

Section A: National Data System Coding

1	Transaction Code	2	NPDES	11	yr/mo/day	17	Inspec. Type	18	Inspector	19	Fac Type	20
	N	5	NM0020133		120306		C		S		1	

Remarks: LOS ALAMOS COWHITEROCKWWTP

67	Inspection Work Days	69	70	Facility Evaluation Rating	71	BI	72	QA	73	74	75	Reserved	80
	1			3		N		N				MINOR	

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number)*
Los Alamos County White Rock WWTP – From Santa Fe -> Take Hwy 285 N to the Los Alamos exit on State Hwy 12.5 miles → NM 502 W go 11.9 miles → take State Road 4 to White Rock →Turn Left of Rover Blvd → Turn Left on Meadow Lane → Turn Left on Overlook Road, WWTP is on the left.

Entry Time /Date
12:15 / 6 March 2012

Permit Effective Date
1 August 2011

Exit Time/Date
16:30 / 6 March 2012

Permit Expiration Date
31 July 2016

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)
Mr. Jeff Ayers, Water –Wastewater Treatment Plant Superintendent 505-662-8269
Mr. Tom Sanchez, - Plant Operator
Ms. Jennifer Baca - Laboratory Analyst
Mr. Jeremy Martinez - Operator Trainee
Mr. Pete Padilla - Environmental Operations

Other Facility Data
Minor Municipal
SIC 4952
Latitude – 35° 49’ 39.936”
Longitude – -106° 11’ 5.964”

Name, Address of Responsible Official/Title/Phone and Fax Number
Mr. John Arrowsmith, Utility Director 505-662-8148
Department of Public Utilities
P.O. Drawer 1030
Los Alamos, NM 87544

Contacted: Yes [ ] No [X]

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
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 Further Explanations For Details.

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Barbara Cooney */s/ Barbara Cooney*	**NMED/SWQB 505-827-0212 / 505-827-0160**	**4 April 2012**
Signature of Management QA Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**
Richard Powell */s/ Richard Powell*	**NMED/SWQB 505-827-2798 / 505-827-0160**	**6 April 2012**

Los Alamos County, White Rock WWTP	PERMIT NO. NM0020133

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.	☒ Y ☐ N ☐ NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	☒ Y ☐ N ☐ NA

Los Alamos County White Rock	PERMIT NO. NM0020133

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* 5August 2012) The Ultrasonic flow meter is checked daily against Staff Gauge	☒ 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

Los Alamos County White Rock	PERMIT NO. NM0020133

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. ___ % OF THE TIME. The Los Alamos Co. Lab participates in the DMR QA study w/ spiked samples 1/year ☐ Y ☒ N ☐ NA

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

LAB NAME	Bio Aquatics
LAB ADDRESS	2501 Mayers Road, Suite 100, Carlton, TX 75006
PARAMETERS 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	No	Yes	No	No	Greenish-yellow	

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: _____ (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 6 March 2012 a Compliance Evaluation Inspection (CEI) was conducted at the Los Alamos County White Rock Wastewater Treatment Plant (WWTP) NM0020133 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 NPDES permit program, in accordance with the federal Clean Water Act. These inspections are conducted under contract with the USEPA and are used by EPA to evaluate compliance with the NPDES permit program. This inspection report is based on information supplied by the Los Alamos County representatives (the permittee), observations made by the NMED inspector, reports and records kept by the permittee and/or NMED.

Findings of the inspection are detailed on the attached EPA form 3560-3 and in the narrative Further Explanations section of this report.

The Los Alamos County White Rock WWTP is classified as a minor municipal discharger, with a design flow of 0.82 MGD. The facility discharges treated effluent to the Canada Del Buey in Water Quality Segment 20.6.4. 97 thence to the Rio Grande in Water Quality Segment 20.6.4.114. The designated uses for segment 20.6.4.97 are livestock watering, wildlife habitat, limited aquatic life and secondary contact. The designated uses for the segment 20.6.4.114 are irrigation, livestock watering, wildlife habitat, marginal coldwater aquatic life, primary contact and warmwater aquatic life.

Inspection Details

The NMED inspector arrived at the Los Alamos County White Rock WWTP at 12:15 hours. The inspector showed her credentials and explained the purpose of the inspection to Mr. Tom Sanchez, Plant Operator. Mr. Sanchez called Mr. Jeff Ayers, Plant Superintendent, who was not at the plant at the time, to come and join the inspector as she toured the WWTP. Shortly thereafter, Mr. Ayers, Ms. Jennifer Baca, Laboratory Analyst, and Mr. Jeremy Martinez, Operator Trainee joined the inspection tour of the WWTP. Following the site inspection, the group drove to the analytical laboratory at the Los Alamos County WWTP where the analytical laboratory and records are located, to conduct a records review, and a laboratory review. Following the inspection an exit interview was held with Mr. Ayers, Ms. Baca and Mr. Pete Padilla, Environmental Coordinator for Los Alamos County. The Inspector left the Los Alamos County facilities at 1640 hours.

Treatment Scheme

The collection system has eight lift stations that transport domestic sewage from residential neighborhoods to the WWTP. Parallel treatment trains consists of two grit settling channels, one with a comminutor - grinder system at the end and one with a bar screen → two primary clarifiers → two rough rock trickling filters → two secondary clarifiers. Then the flow is combined to the serpentine chlorine contact chamber where a draw off for reuse is located and sends the reuse water to a lined holding pond for use on the town parks and ball fields → dechlorination → effluent flow measurement with a Parshall flume staff gauge and ultrasonic totalizing meter. The final discharge is approximately 20 feet through an enclosed pipe to Canada Del Buey.

The raw sewage enters the WWTP through the Parshall Flume at the head works where a screw pump removes large solids. Those solids are collected in a dumpster then disposed of at the county landfill. At the time of the inspection the average flow through the WWTP was approximately 0.350MGD, less than

half the design flow of 0.820 MGD. With the exception of two trickling filters on line only one of each of the parallel treatment units were in use. Next in the treatment chain is the approximately 15 foot long grit settling channel. Following the grit channel is a comminutor grinder to reduce large solids and rags that may have passed through the first screw pump.

The raw wastewater can flow from the head works to the parallel treatment trains of primary clarifiers to trickling filters, to secondary clarifiers. The primary clarifiers are taken off line in rotation for maintenance. Following are the two trickling filters run in series not parallel. The flow from the second trickling filter goes to a single secondary clarifier. Past the secondary clarifier, a portion of the water is re-circulated back to the end of the head works to insure continuous flow to maintain the zooglea growth on the trickling filters media. The remaining treated water flows to the chlorine contact chamber for disinfection. That treatment process is followed by dechlorination with SO_2 before the water passes through final flow measurement devices and is discharged to the Canada Del Buey. The reuse water is drawn off before dechlorination and before the effluent flow meter. Reuse water is sent to a lined holding pond and used on the town park and baseball field.

Sludge

The solids handling process has been modified since July 2011. The boilers for the digester are out of order and the aerobic digester is no longer operating. It now serves as a holding tank for the wasted solids from the primary and secondary clarifiers. All solids are pumped via vactor truck from the digester and are sent to the Los Alamos County WWTP for processing. The sludge drying beds had some dried solids in them but were not being used to their full extent as had been the past practice. Final disposal is still to the composting site located at the Los Alamos County Landfill, where compost is distributed to residents and other interested parties.

In the past solids were wasted from the primary and the secondary clarifier/s to an aerobic digester. Re-circulated water and solids were sent back to a splitter box following the grit chamber at the headworks. The decant from the digester, and under drains from the sludge drying beds were also sent to the splitter box, where it mixed with the influent. From the digester, solids were sent to the sludge drying beds. Final disposal of solids was to a composting site at the Los Alamos County Landfill.

Further Explanations

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

Permit Verification

Overall Rating For Permit Verification (Satisfactory)

Record Keeping & Reporting

Overall Rating For Record Keeping and Reporting (Satisfactory)

Permit Requirements for Recordkeeping & Reporting

The permit requires in PART I, C. MONITORING AND REPORTING (MAJOR DISCHARGERS):

> *Monitoring information shall be on Discharge Monitoring Report Form(s) EPA3320-1 as specified in Part III.D.4 of this permit and shall be submitted monthly.*

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

3. Retention of Records:
The permittee shall retain records of all monitoring information, including all calibrations 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. This period may be extended by request of the Director at any time.

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 performed the sampling or measurements;
c. The date(s) and times(s) analyses were performed;
d. The individual(s) who performed the analyse(s);
e. The analytical techniques or methods used; and
f. The results of such analyses.

Findings for Record Keeping & Reporting
Records were reviewed for the period of October 2011. The facility began reporting through NetDMR May 2011. Since that time all Discharge Monitoring Reports have been submitted through NetDMR. These records were found to have the required information.

Effluent /Receiving Waters

Overall Rating For Effluent/Receiving Waters (Satisfactory)

Findings for Effluent / Receiving Waters
No exceedences of permit effluent limits have been recorded since the time of the last inspection.

Flow Measurement

Overall Rating For Flow Measurement (Satisfactory)

Permit Requirements for Flow Measurement
The permit requires in Part III, Section 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 flows with a maximum deviation of less than 10%from the true discharge rates throughout the range of expected discharge volumes.

The permit requires in Part I, Section A. Limitations and Monitoring Requirements 1. Final Effluent Limits - 0.82 MGD Design flow

Flow:
Measurement Frequency = Continuous
Sample Type = Totalizing Meter

Findings for Flow Measurement
The ultrasonic device and the staff gauge in the Parshall flume were found to be within acceptable limits. The average daily flows are near .350 MGD less than half of the design flow for this facility. At the time of the inspection the staff gauge read 0.380 MGD and the ultrasonic meter read 0.370 MGD within 3% variation.

The facility was recording and reporting the totalized flows as required in the permit. The meter was last calibrated on 5 August 2011.

Self Monitoring

Overall Rating For Self Monitoring (Satisfactory)

Permit Requirements for Self Monitoring
The permit requires in Part I. Section A. Limitations and Monitoring Requirements:

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS Standard Units		MONITORING REQUIREMENTS	
POLLUTANT		MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH		6.6	9.0	Daily	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS lbs/day, unless noted			mg/l, unless noted (*1)			MONITORING REQUIREMENTS	
POLLUTANT	30-DAY AVG	DAILY MAX	7-DAY AVG	30-DAY AVG	DAILY MAX	7-DAY AVG	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	Report MGD	Report MGD	Report MGD	***	***	***	Continuous	Totalizing Meter
Biological Oxygen Demand, 5-day	205	N/A	308	30	N/A	45	Three/Month	6-Hour Composite
Total Suspended Solids	205	N/A	308	30	N/A	45	Three/Month	6-Hour Composite
E. Coli Bacteria	N/A	N/A	N/A	126 (*2) cfu/100 ml	410 (*2) cfu/100 ml	N/A	Three/Month	Grab
Total Residual Chlorine	N/A	N/A	N/A	N/A	11 ug/l (*3)	N/A	Daily	Instantaneous Grab (*3)

Finding For Self Monitoring
Records were review for the period of October 2011. The daily logs were comprehensive and filled in each day. Effluent Sampling was conducted as required in the permit. The records show that what is being reported on the DMRs is consistent with the daily records.

Laboratory

Overall Rating For Laboratory (Satisfactory)

Findings For Laboratory
Records were reviewed for the period of October 2011. As part of the inspection, laboratory procedures and equipment were reviewed. Procedures being done followed the permit requirements and the equipment was well maintained. Calibrations for pH meters were being done correctly and at an acceptable frequency. The temperatures of the incubators and the refrigerators were within acceptable ranges. The thermometers were tested and calibrated. The buffers were stored correctly and within the expiration dates.

Operation and Maintenance

Overall Rating For Operation and Maintenance (Marginal)

Findings For Operation and Maintenance

1. The two trickling filters are run in series. The County recently rehabilitated one of the trickling filters that was put back on line January 2012. The zoogleal growth on that trickling filter was very sparse. It appears that three factors are contributing to the lack of growth on the rough rock media: 1. Lack of enough "food" in the wastewater to promote and sustain growth. 2. Cold winter weather reduces the growth. 3. The filter has been on line for just two months. Even though it has been on line for only two months, if there was sufficient food, even in cold weather the growth should have returned on this media.

The distribution arms all appeared to be operating properly and evenly spreading the waste water over the rocks.

2. The lift stations do not have adequate alarm systems. The alarms are flashing lights and are not set up to any automated call out system to alert the operators. The County relies on residents to notice flashing lights or overflowing manholes to notify them of a lift station failure.

3. The aerobic digester has been taken out of service and is currently acting as a holding tank for the wasted solids. The heating boilers for the digester are no longer operable.

4. The screw pump at the headwork has a shoot that allows the removed solids to flow into a receptacle to be taken to the landfill. The cement platform for the receptacle does not have berms around it and a small amount of solids could be seen on the bare ground past the cement. These solids should be contained.

Sludge Disposal

Overall Rating For Sludge Disposal (Satisfactory)

Findings For Sludge Disposal

A letter dated October 13, 2011 by Mr. Pete Padilla states that due to the complete failure of the boilers used to maintain the temperature of the sludge (bio-solids) at the White Rock Waste Water Treatment Plant that solids are now being removed by a small septage hauling vehicle and transported to the upstream manhole at the Los Alamos WWTP. This has been the sludge handling process since mid year 2011. Operators indicate that there are no plans to repair the digester; the plan is to continue transporting and processing solids at the Los Alamos WWTP as the new Standard Operating Procedures (SOPs). It is advisable that the permittee write new SOPs that include this change.

No effluent exceedences have been noted since the change in the solids handling process.

It is important for operator to note that even though solids are no longer being processed at the White Rock WWTP, Discharge Monitoring Reports for Sludge will still need to be submitted for the facility. These DMRs can be noted as "NO Discharge" and a note stating that solids are being processed at the other WWTP should be included.

NMED/SWQB Official Photograph Log Photo # 1		
Photographer: B. Cooney	Date: 6 March 2012	Time: 12:20
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: Headworks - screw pump. Note the debris on bare ground past the cement receptacle pad.		

NMED/SWQB Official Photograph Log Photo # 2		
Photographer: B. Cooney	Date: 6 March 2012	Time: 12:48
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: Parallel Grit chamber to the grinder at the headworks.		

NMED/SWQB Official Photograph Log Photo #3		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13:59
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: West Primary Clarifier - note some cracking in the walls. The plant is more than 20 years old.		

NMED/SWQB Official Photograph Log Photo #4		
Photographer: B. Cooney	Date: 6 March 2012	Time: 14:00
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: The East Primary Clarifier is off line for service. The Actual flow through the WWTP is less than 1/2 the design capacity so all the flow at this stage of the treatment can be processed at the West Primary Clarifier.		

NMED/SWQB Official Photograph Log Photo # 5		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13:55
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: West Trickling Filter has health Zooglea slime growth. The distribution arms were clear of debris and an even spread of water was flowing.		

NMED/SWQB Official Photograph Log Photo # 6		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13:02
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: East Trickling Filter: Came on line in January 2012 just a few months before this photo was taken. Note the limited Zoogleal growth on the rock media compared with the photo of the West Trickling Filter.		

NMED/SWQB Official Photograph Log Photo # 7		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13:44
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: East Secondary Clarifier: The weirs were clean and there was not apparent short circuiting from the basin.		

NMED/SWQB Official Photograph Log Photo # 8		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13:35
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: West Secondary Clarifier is off line.		

NMED/SWQB Official Photograph Log Photo # 9		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13: 48
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: East Secondary Clarifier has only a few inches of solids after wasting.		

NMED/SWQB Official Photograph Log Photo # 10		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13:15
City/County: White Rock / Los Alamos		State: New Mexico
Location:		
Subject: Following the Chlorine Contact Chamber is the De-Chlorination basin. Water treated by trickling filters typically have a slight color of yellow-green -brown as seen in this photo.		

NMED/SWQB Official Photograph Log Photo # 11		
Photographer: B. Cooney	Date: 6 March 2012	Time: 14:32
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: Sludge Drying Beds are not being used now that the Digester is out of operation.		

NMED/SWQB Official Photograph Log Photo # 12		
Photographer: B. Cooney	Date: 6 March 2012	Time: 13:34
City/County: White Rock / Los Alamos		State: New Mexico
Location: White Rock Wastewater Treatment Plant		
Subject: Lined Reuse holding pond.