NEW MEXICO
ENVIRONMENT DEPARTMENT

SUSANA MARTINEZ
Governor
JOHN A. SANCHEZ
Lieutenant Governor

Harold Runnels Building
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

RYAN FLYNN
Cabinet Secretary
BUTCH TONGATE
Deputy Secretary

Certified Mail - Return Receipt Requested

June 23, 2014

The Honorable Bob Wilson, Mayor
Village of Jemez Springs
Post Office Box 269
Jemez Springs, New Mexico 87025

Re: Village of Jemez Springs Wastewater Treatment Plant; Minor; Individual Permit; SIC 4952; Compliance Evaluation Inspection; NPDES Permit NM0028011; June 04, 2014

Dear Mayor Wilson:

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.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further you are encouraged to notify in writing both USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Racquel Douglas
US Environmental Protection Agency, Region VI
Enforcement Branch (6EN-WM)
Fountain Place
1445 Ross Avenue
Dallas, Texas 75202-2733

Bruce Yurdin
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 Sandra Gabaldon at (505) 827-1041 or at sandra.gabaldon@state.nm.us.

Sincerely,

/s/ Bruce J. Yurdin

Bruce J. Yurdin
Program Manager
Point Source Regulation Section
Surface Water Quality Bureau

cc: Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail
Racquel Douglas, USEPA (6EN-WM) by e-mail
Gladys Gooden-Jackson USEPA (6EN-WC) by e-mail
Brent Larsen, USEPA (6WP-PP) by e-mail
NMED District I, 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	NM0028011	12	140604		C		S		1	

M	I	N	O	R		W	W	T	p															

Inspection Work Days	67			69	Facility Evaluation Rating	70	2	BI	71	N	QA	72	N	73			74	75	Reserved	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)*	Entry Time /Date	Permit Effective Date
Village of Jemez Springs WWTP – From Santa Fe, Take I-25 South to Exit 242. Turn onto NM550, Proceed to NM4. Facility is on the left hand side. SANDOVAL COUNTY	0917 Hours / June 4, 2014	September 1, 2010
	Exit Time/Date	Permit Expiration Date
	1320 Hours / June 4, 2014	August 31, 2015

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data
Karen Nalezny, Operator Ona P. Trujillo, Clerk/Treasurer / (575) 829-3540 / vclerk@jemezsprings.org	SIC 4952

Name, Address of Responsible Official/Title/Phone and Fax Number	Contacted
Bob Wilson, Mayor Post Office Box 269 Jemez Springs, New Mexico 87025 (575) 829-3540 / (505) 829-3339 (Fax)	Yes [ ] No [*]

Section C: Areas Evaluated During Inspection

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

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

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

Please see checklist and further explanations for details of findings

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Sandra Gabaldon /s/ Sandra Gabaldon	NMED/SWQB/(505) 827-1041/(505) 827-0610	06/23/2014
Signature of Management QA Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**
Michelle Lemon, Municipal Team Lead /s/ Michelle Lemon	NMED/SWQB/(505) 827-2819/(505) 827-0610	06/23/2014

VILLAGE OF JEMEZ SPRINGS	**PERMIT NO. NM0028011**

SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS X S ¨ M ¨ U ¨ NA (*FURTHER EXPLANATION ATTACHED NO)*

DETAILS:

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

SECTION B - RECORDKEEPING AND REPORTING EVALUATION

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. O S ¨ M X U ¨ NA (*FURTHER EXPLANATION ATTACHED NO)*
DETAILS:

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

SECTION C - OPERATIONS AND MAINTENANCE

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. ¨ S X M ¨ U ¨ NA *(FURTHER EXPLANATION ATTACHED YES)*
DETAILS:

1. TREATMENT UNITS PROPERLY OPERATED.	X S ¨ M O U ¨ NA
2. TREATMENT UNITS PROPERLY MAINTAINED.	¨ S X M O U ¨ NA
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED.	X S ¨ M O U ¨ NA
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	X S ¨ M O U ¨ NA
5. ALL NEEDED TREATMENT UNITS IN SERVICE	X S ¨ M O U ¨ NA
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.	¨ S X M O U ¨ NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	X S ¨ M ¨ U ¨ NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.	X Y ¨ N ¨ NA
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.	X Y O N ¨ NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	X Y ¨ N ¨ NA

	PERMIT NO.

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

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

SECTION D - SELF-MONITORING

PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. X S ¨ M ¨ U ¨ NA *(FURTHER EXPLANATION ATTACHED No).*
DETAILS:

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	X Y ¨ N ¨ NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	X Y ¨ N ¨ NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	O Y ¨ N X NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	X Y ¨ N ¨ NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	X Y ¨ N ¨ NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	X Y ¨ N ¨ NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	O Y ¨ N X NA
b) PROPER PRESERVATION TECHNIQUES USED.	X Y ¨ N ¨ NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	X 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?	O Y ¨ N X NA

SECTION E - FLOW MEASUREMENT

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

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE	X Y ¨ N ¨ NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	X Y ¨ N ¨ NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	O Y X N ¨ NA
4. CALIBRATION FREQUENCY ADEQUATE.	X Y ¨ N ¨ NA
RECORDS MAINTAINED OF CALIBRATION PROCEDURES.	O Y X N ¨ NA
CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	O Y X N ¨ NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	X Y ¨ N ¨ NA
6. HEAD MEASURED AT PROPER LOCATION.	X Y ¨ N ¨ NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	X Y ¨ N ¨ NA

SECTION F – LABORATORY

PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. O S X 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)*	X Y ¨ N ¨ NA

	PERMIT NO.

SECTION F - LABORATORY (CONT'D)

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

3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. X S O M ¨ U ¨ NA

4. QUALITY CONTROL PROCEDURES ADEQUATE. O S X M ¨ U ¨ NA

5. DUPLICATE SAMPLES ARE ANALYZED. 0% OF THE TIME. O Y X N ¨ NA

6. SPIKED SAMPLES ARE ANALYZED. 10 % OF THE TIME. X Y ¨ N O NA

7. COMMERCIAL LABORATORY USED. X Y ¨ N ¨ NA

LAB NAME Hall Environmental Analysis Laboratories, Inc. Bio-Aquatics

LAB ADDRESS 4901 Hawkins, NE; Albuquerque, NM 87109 Carrollton, TX

PARAMETERS PERFORMED BOD, TSS, E.coli, Nitrate, Boron, Nitrogen, Arsenic Biomonitoring

SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. X S ¨ M O U ¨ NA *(FURTHER EXPLANATION ATTACHED NO).*

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	NONE	NONE	NONE	NONE	NONE	CLEAR	

RECEIVING WATER OBSERVATIONS

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. X S ¨ M ¨ U ¨ NA *(FURTHER EXPLANATION ATTACHED NO).*
DETAILS:

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. X S ¨ M ¨ U ¨ NA

2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. X S ¨ M ¨ U ¨ NA

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

SECTION I - SAMPLING INSPECTION PROCEDURES *(FURTHER EXPLANATION ATTACHED ___).*

1. SAMPLES OBTAINED THIS INSPECTION. ¨ Y ¨ N X 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
Village of Jemez Springs Wastewater Treatment Plant
NPDES Permit No. NM0028011
Inspection Date: June 4, 2014

Introduction

A Compliance Evaluation Inspection (CEI) was conducted at the Village of Jemez Springs Wastewater Treatment Plant (WWTP), located in Jemez Springs, New Mexico on June 4, 2014 by Ms. Sandra Gabaldón, of the State of New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB). This facility is classified as a minor discharger under the federal Clean Water Act (CWA), Section 402. This facility is regulated under the National Pollutant Discharge Elimination System (NPDES) permit program, and is assigned NPDES permit number NM0028011. The facility design flow is 0.075 million gallons per day (MGD).

The Jemez Springs Wastewater Treatment Plant discharges to a receiving water named Jemez River, thence to the Rio Grande in Segment No. 20.6.4.107 of the Rio Grande Basin. Designated uses of this segment include: Coldwater aquatic life, primary contact, irrigation, livestock watering and wildlife habitat; and public water supply on Vallecito Creek.

Ms. Gabaldón arrived at the WWTP at approximately 0917 hours conducted an entrance interview with Ms. Ona P. Trujillo, Clerk/Treasurer. Ms. Trujillo contacted the facility operator, Ms. Karen Nalezny. The inspector made introductions, presented her credentials, and discussed the purpose of the inspection with Ms. Trujillo at the office and later with Ms. Nalezny at the WWTP. An exit interview to discuss preliminary findings of the inspection was conducted with Ms. Ona Trujillo, Clerk/Treasurer, and Ms. Karen Nalezny.

The NMED performs a specific number of CEI's annually for the United States Environmental Protection Agency (USEPA). The purpose of this inspection is to provide the USEPA with information to evaluate the permittee's compliance with their NPDES permit. The enclosed inspection report is based on verbal information supplied by the permittee's representatives, observations made by the NMED inspector, and a review of records maintained by the permittee, commercial laboratories, and/or NMED. Findings of the inspection are detailed on the attached EPA form 3560-3 and in the narrative Further Explanations section of the report.

Treatment Scheme

The Village of Jemez Springs is a sequencing batch reactor system which works in steps to biologically degrade the influent. The reaction basin operates sequentially as an aeration basin, sedimentation basin and decantation basin. There are four basins available at this facility for treatment. However, because of the design capacity, only two basins are currently being used.

Influent flow enters the facility through the collection system through gravity. There is no primary treatment at this facility. It would be beneficial for the facility to invest in a barscreen and a grit chamber that would remove large solids and inorganic particles prior to biological treatment.

Influent is then transferred to the SBR basin in which treatment begins.

Treatment occurs during a three step cycle. Each step of the cycle can be controlled manually or by the computer, which allows the operator to change the settings to increase treatment needs. The first step is an aeration period. Fine bubble diffusers are utilized in the basin for aeration. The second step is settling. Solids settle and leave a clear supernatant on top. Thirdly, the supernatant is decanted and is sent to the Ultraviolet system for disinfection prior to being discharged through a Parshall flume with a secondary staff gauge. The

effluent proceeds through a pipe into a cemented lined rectangular weir which leads to the Jemez River. This is a direct discharge facility.

Sludge:

Sludge is pumped from the SBR basin to be delivered to the Albuquerque Southside Reclamation Facility. The sewage is removed from the basin on an as needed basis, based on the function of the plant.

Compliance Evaluation Inspection
Village of Jemez Springs Wastewater Treatment Plant
NPDES Permit No. NM0028011
Inspection Date: June 4, 2014

Further Explanations

Note: The sections are arranged according to the format of the enclosed EPA inspection checklist (Form 3560-3), rather than being ranked in order of importance.

Section B - Recordkeeping and Reporting Evaluation – Overall Rating of "Unsatisfactory"

Permit Requirements for Recordkeeping and Reporting Evaluation

The permit requires, in Part I, Schedule of Compliance, Section B.a:

> *a. The permittee shall submit a progress report outlining the status of activities during the months of January, April, July, and October until compliance is achieved.*

The permit requires in Part III.D.4, Discharge Monitoring Reports and Other Reports:

> *Monitoring results must be reported to EPA on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. Monitoring results can be submitted electronically in lieu of paper DMR form.*

Findings for Recordkeeping and Reporting Evaluation:

The permittee failed to submit complete Discharge Monitoring Reports (DMRs) for the month of July, August and September. The permittee did not provide the flow readings, BOD and TSS loading results on the DMR. According to the permittee, the totalizer was nonfunctional during this time. The permittee has not submitted any corrected DMRs for these months because the permittee does not have the required flow readings available.

The permittee has failed to submit their biomonitoring discharge monitoring report. They completed their sampling in November 2011 and results were provided by Bio-Aquatic Laboratory on December 05, 2011.

The permittee is required to submit progress reports for their compliance schedule as stated above. The permittee has not submitted any progress reports since the permit was issued. Ms. Trujillo stated that they will submit the required progress reports to both EPA and NMED as soon as they review what has been done at the facility. This was an oversight when the permittee reviewed their final permit.

The permittee is required to have a signed permit available for review at the time of the inspection. The permittee did not have a final permit. The permitee did provide a proposed permit. The permittee should review their final permit to insure all requirements of the final permit are being met, as some changes may have occurred between the proposed and final permits. The permittee did not have the Administrative Changes that were dated February 4, 2013 available on site during this inspection. Again, changes were made to the final permit that the permittee needs to be aware of.

The inspector asked to review bench sheets from February 2014. The bench sheets were provided and the following information is taken from the bench sheets:

The permittee used the design flow (0.075 MGD) for calculating the mass loading for the 30-day average for Arsenic, Boron, Phosphorus, and Nitrogen. This is an incorrect way of calculating the mass loading. The formula for calculating mass loading is: Flow on the day of sample (MGD) X Concentration (mg/L) X 8.34 = lbs/day. The permittee needs to resubmit the DMRs with the corrected calculations.

BOD and TSS were calculated using the flow on the day of sampling. However, the permitte used "0" for their mass loading calculation for TSS. Unless otherwise stated in the permit, values below the detection limit are to be reported with a less than symbol (<) and the numeric value for the detection limit using the EPA approved method. For example, the permittee would use the value of < 4.0 (reportable detection limit) in calculating the mass loading for TSS.

BOD

Sample Date:	Daily Flow (MGD)	BOD (mg/l)	Calculated Daily Load
FORMULA: Flow on day of sampling (MGD) x concentration (mg/L) x 8.34 (lbs/gal)			
02/27/2014	0.024	2.2	(0.024) x (2.2) x (8.34) = .44
Calculated Monthly Average (Loading):	0.44 lbs/dü		
Calculated 7-day Average (Loading):	0.44 lbs/dü		
Reported on DMR	**7-D average loading = 0.44 lbs/d** **30-D average loading = 0.44 lbs/d**		

üThese values reflect what was reported on the DMR.

TSS

Sample Date:	Daily Flow (MGD)	TSS (mg/l)	Calculated Daily Load
FORMULA: Flow on day of sampling (MGD) x concentration (mg/L) x 8.34 (lbs/gal)			
02/27/2014	0.024	Non-Detect (**4.0** mg/L Reportable detection limit)	(0.024) x (<4.0) x (8.34) = < 0.08
Calculated Monthly Average (Loading):	(0.024) x (<4.0) x (8.34) = **< 0.08***		
Calculated 7-day Average (Loading):	(0.024) x (<4.0) x (8.34) = **< 0.08***		
Reported on DMR	**7-D average loading = 0.0 lbs/d** **30-D average loading = 0.0 lbs/d**		

*These values do not reflect what was reported on the DMR.

Boron

Sample Date:	Daily Flow (MGD)	Boron (mg/l)	Calculated Daily Load
FORMULA: Flow on day of sampling (MGD) x concentration (mg/L) x 8.34 (lbs/gal)			
02/28/2014	0.023	2.5	(0.023) x (2.5) x (8.34) = **0.48**
Reported on DMR	**30-Day Average Loading = 1.5 lbs/Day**		

Arsenic

Sample Date:	Daily Flow (MGD)	Arsenic	Calculated Daily Load
FORMULA: Flow on day of sampling (MGD) x concentration (mg/L) x 8.34 (lbs/gal)			
02/28/2014	0.023	0.12	(0.023) x (0.12) x (8.34) = **0.023**
Reported on DMR	**30-Day Average Loading = 0.07 lbs/Day**		

Nitrogen, Total

Sample Date:	Daily Flow (MGD)	Nitrogen	Calculated Daily Load
FORMULA: Flow on day of sampling (MGD) x concentration (mg/L) x 8.34 (lbs/gal)			
02/28/2014	0.023	0.29	(0.023) x (0.29) x (8.34) = **0.55**
Reported on DMR	**30-Day Average Loading = 1.8 lbs/Day**		

Phosporus, Total

Sample Date:	Daily Flow (MGD)	Phosphorus	Calculated Daily Load
FORMULA: Flow on day of sampling (MGD) x concentration (mg/L) x 8.34 (lbs/gal)			
02/28/2014	0.023	1.6	(0.023) x (1.6) x (8.34) = **0.31**
Reported on DMR	**30-Day Average Loading = 1.0 lbs/Day**		

Section C – Operations and Maintenance – Overall Rating of "Marginal"

Permit Requirements Operations and Maintenance:

The permit requires, in Part III, Section B.3, Proper Operation 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 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 backup 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 adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.*

Findings for Operation and Maintenance:

During the week of the inspection, the operator was on vacation. There were no other staff members available to provide maintenance at the facility. And, because of this, the UV system had not been clean all week. The operator stated that she cleans on Mondays. However, it wasn't cleaned and showed noticeable debris, which may inhibit the effectiveness of the UV system for disinfection.

The permittee should have a back-up operator for the purpose of helping the primary operator if and/or when she is on vacation or out sick.

Section E – Flow Measurement – Overall Rating of "Unsatisfactory"

Permit Requirements for Flow Measurement:

The permit requires in Part III.C.6 Flow Measurement:

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 true discharge rates throughout the range of expected discharge volumes.

Findings for Flow Measurement:

The permittee is not doing calibration checks for their primary and secondary flow devices to insure flows are consistent with a maximum deviation of less than 10% from the true discharge rates that are reported.

Section F – Laboratory – Overall Rating of "Marginal"

Permit Requirements for Laboratory:

The permit requires in Part III.5.C: Monitoring Procedures:

> *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:

This is a repeat finding.

The permittee has failed to do duplicate samples as required by the permit.

NMED/SWQB
Official Photograph Log
Photo # 1

Photographer: Chrys Kamgiang	Date: June 4, 2014	Time: 1026 Hours
City/County: Village of Jemez Springs / Sandoval		State: New Mexico
Location: Village of Jemez Springs Wastewater Treatment Plant		
Subject: Ultraviolet System		

NMED/SWQB
Official Photograph Log
Photo # 2

Photographer: Chrys Kamgiang	Date: June 4, 2014	Time: 1035 Hours
City/County: Village of Jemez Springs / Sandoval		State: New Mexico
Location: Village of Jemez Springs Wastewater Treatment Plant		
Subject: Cement lined discharge point to Jemez River