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NEW MEXICO ENVIRONMENT DEPARTMENT

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RYAN FLYNN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

Certified Mail - Return Receipt Requested

March 24, 2015

The Honorable Andrew Nunez, Mayor
Village of Hatch
133 N. Franklin St.
Hatch, NM 87937

Re: Minor Municipal, SIC 4952, NPDES Compliance Evaluation Inspection, Village of Hatch Wastewater Treatment Plant, NM0020010, February 24, 2015

Dear Mr. Nunez,

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 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 the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Racquel Douglas
US Environmental Protection Agency, Region VI
Enforcement Branch (6EN-WM)
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 Shelly Lemon at (505) 827-2819 or at shelly.lemon@state.nm.us.

Sincerely,

/S/ Bruce Yurdin

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

Village of Hatch Wastewater Treatment Plant

March 24, 2015

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cc: Rashida Bowlin, USEPA (6EN-AS) by e-mail
Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail
Raquel Douglas, USEPA (6EN-WM) by e-mail
Gladys Gooden-Jackson, USEPA (6EN) by e-mail
Michael Kesler, NMED District III, by e-mail



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 0 0 1 0 11 12 1 5 0 2 2 4 17 18 C 19 S 20 1					
Remarks					
M I N O R M U N I C I P A L W W T P					
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)	Entry Time /Date February 24, 2015 1:50 pm	Permit Effective Date August 1, 2009
VILLAGE OF HATCH WWTP 1 MILE SOUTH OF EAST SIDE OF HWY 85, SOUTH OF SCHOOLS HATCH, DONA ANA COUTY, NEW MEXICO 87937	Exit Time/Date February 24, 2015 3:45 pm	Permit Expiration Date July 31, 2014
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) JUAN DURAN, SUPERINTENDENT, 575-640-6215	Other Facility Data	
Name, Address of Responsible Official/Title/Phone and Fax Number THE HONORABLE ANDREW NUNEZ, MAYOR 133 N. FRANKLIN STREET HATCH, NEW MEXICO 87937	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	GPS: N 32° 40' 05" W -107° 08' 17" SIC 4952

Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	M	Flow Measurement	M	Operations & Maintenance	N	CSO/SSO
S	Records/Reports	M	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		Other:

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

PLEASE SEE THE ATTACHED REPORT FOR FURTHER DETAILS AND INFORMATION.

Name(s) and Signature(s) of Inspector(s) MICHELLE LEMON /s/ Michelle Lemon	Agency/Office/Telephone/Fax NMED/SWQB 505-827-2819	Date March 24, 2015
Signature of Management QA Reviewer BRUCE YURDIN /s/ Bruce Yurdin	Agency/Office/Phone and Fax Numbers NMED/SWQB 505-827-2795	Date March 24, 2015

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 YES)

- 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 YES)

- 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

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. Y N NA
 TYPE OF DEVICE: ISCO 4210 Ultrasonic flow meter with parshall flume

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 11-18-2013) 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 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. 10 % 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	INTERLAB	BIO-AQUATICS
LAB ADDRESS	LAS CRUCES	2501 MAYES RD #100; CARROLLTON, TX 75006
PARAMETERS PERFORMED	BIOSOLIDS	BIOMONITORING

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							

RECEIVING WATER OBSERVATIONS: **Not discharging at time of inspection**

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: SENT TO SUNLAND PARK LANDFILL (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
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- 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

**Village of Hatch Wastewater Treatment Plant
Compliance Evaluation Inspection
NPDES Permit No. NM0020010
February 24, 2015**

Introduction

On February 24, 2015, Shelly Lemon of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the Village of Hatch Wastewater Treatment Plant (WWTP). The Hatch WWTP has a design flow capacity of 0.3 MGD (million gallons per day) and is classified as a minor municipal discharger under the Federal Clean Water Act, Section 402, of the National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned NPDES permit number NM0020010. This permit regulates the WWTP discharge to the Rio Grande in Water Quality Segment 20.6.4.101 of the New Mexico Administrative Code (NMAC). This segment includes the designated uses of irrigation, marginal warmwater aquatic life, livestock watering, wildlife habitat and primary contact.

The NMED performs a certain number of CEIs each year for the U.S. Environmental Protection Agency (USEPA), Region VI, under the NPDES permit program, in accordance with the Federal Clean Water Act. USEPA uses these inspections to determine compliance with the NPDES permit program. This inspection report is based on information provided by the permittee's representatives, observations made by the NMED inspector, and records and reports kept by the permittee and/or NMED.

Upon arrival at the WWTP at approximately 1350 hours on the day of this inspection, the inspector made introductions, presented her credentials, and explained the purpose of the inspection to Mr. Juan Duran, the Wastewater Superintendent. The inspector and Mr. Duran toured the facility. At the end of the tour, the inspector conducted an exit interview with Mr. Duran to discuss preliminary findings of the inspection. The meeting concluded at approximately 1545 hours.

Treatment Scheme

Wastewater from the Village of Hatch arrives at the WWTP through a series of seven lift stations to the entrance works. The flow enters the treatment works by first passing through a bar screen. The bar screen has approximately 1-inch gaps between the bars. Rags and debris picked up on the bar screen are placed in a bucket with holes in the bottom to allow for drainage and then sent with the sludge to a sanitary landfill.

From the entrance works wastewater flows into one of two parallel sequencing batch reactors (SBR) units which each have the capability to treat 300,000 gallons of wastewater. Each unit is 44 feet by 29 feet and contains one mixer, one decanter, and two rows of fine bubble diffusers. Three 15 horse power blowers provide air for the aeration system in these units. Each cycle in the SBR tanks consists of a fill phase, mixing/aeration phase, settling phase, and decant phase. After decanting, wastewater enters the post equalization basin to hold until the batch discharge.

When the equalization basin reaches a certain level, effluent is released and flows past the ultraviolet (UV) disinfection system and passes through a Parshall flume with ultrasonic flow meter before being discharged.

Sludge

Wasted sludge is sent to the new digester for future processing and disposal. When the digester gets full, waste activated sludge (WAS) is withdrawn and placed on one of six concrete-lined sludge drying beds where polymer is added to facilitate separation of solids and water. Return activated sludge (RAS) is sent back to the head of the plant flowing by gravity back to the lift station. Solids are removed from the concrete-lined drying beds and placed on a sand drying bed to further dry out.

After the sludge is dry, it is removed and placed in a plastic lined dumpster for shipment to the Camino Real Landfill in Sunland Park, NM. Sludge is picked up for final disposal approximately three times a year. The landfill requires a TCLP and PCB test every 6 months from this facility to comply with 40 CFR 258.

**Village of Hatch Wastewater Treatment Plant
Compliance Evaluation Inspection
NPDES Permit No. NM0020010
February 24, 2015**

Further Explanations

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

Section B – Recordkeeping and Reporting Evaluation – Overall Rating of “Satisfactory”

Permit Requirements for Recordkeeping and Reporting:

Part III.D.6. and Part III.F.22 of the permit state:

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean...

7-DAY AVERAGE or WEEKLY AVERAGE, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

30-DAY AVERAGE or MONTHLY AVERAGE, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

The NPDES Reporting Requirements Handbook for EPA Region 6 advises:

How do I calculate and report 7-day averages?

We recognize that calendar weeks and calendar months rarely coincide. Therefore, for the purpose of calculating and reporting 7-day averages, you should follow the process below:

- a) Define your week (SUN-SAT, MON-SUN, etc.).*
- b) Calculate the averages of all sample data obtained for each week.*
- c) The highest calculated weekly average will be reported on the DMR for the month in which (1) the week ends or (2) the week begins, or (3) the month which contains the greatest number of days. It is the choice of the facility. However, the choice should be consistent month to month, year to year.*

How do I round numbers and ratios?

Permits sometimes require the rounding of numbers or ratios. These numbers or ratios should be rounded as follows:

- 1) If the digit 6, 7, 8, or 9 is dropped, increase preceding digit by one unit.
Example: a value of 1.06 should be rounded to 1.1 and reported as a violation of the permit limit if the permit limit is 1.0.*
- 2) If the digit 0, 1, 2, 3, or 4 is dropped, do not alter the preceding digit.
Example: a value of 1.04 should be rounded to 1.0 and reported to EPA as compliant with the permit limit if the permit limit is 1.0.*
- 3) If the digit 5 is dropped, round off preceding digit to the nearest even number.
Example 1: a value of 1.05 should be rounded to 1.0 and reported to EPA as compliant with the permit limit if the permit limit is 1.0.
Example 2: a value of 11.5 should be rounded to 12 and reported to EPA as a violation of the permit limit if the permit limit is 11.*

Findings for Recordkeeping and Reporting:

The inspector reviewed two months of bench sheets (September 2014, October 2014). Several reported values were inconsistent with the actual analytical, or calculated, results (see highlighted values in table below and Appendix A).

PARAMETER	Monitoring period end date	REPORTED 30 Day Average	ACTUAL 30 Day Average	REPORTED 7 Day Average	ACTUAL 7 Day Average
BOD (mg/L)	9/30/2014	6.5	6.55	7.7	7.70
BOD (lbs/day)	9/30/2014	10.5	10.32	11	10.5
Flow (MGD)	9/30/2014	0.202	0.204	0.211	0.209
BOD (mg/L)	10/31/2014	9.7	9.65	12.3	12.30
BOD (lbs/day)	10/31/2014	14	14.4	17	17.5
Flow (MGD)	10/31/2014	0.194	0.187	0.195	0.192

NetDMR is a web-based application that allows National Pollutant Discharge Elimination System (NPDES) Permittee Users to enter and electronically submit Discharge Monitoring Report (DMR) data through the Central Data Exchange (CDX) to the Integrated Compliance Information System (ICIS). This is an alternative to the paper-based DMR submission process. The EPA is encouraging permittees to transition from submitting DMRs as paper copies to the NetDMR system. Information on NetDMR and training can be found at: https://netdmr.epa.gov/netdmr/public/getting_started.htm and <http://epa.gov/netdmr/about/training.html>.

Section C – Operation and Maintenance – Overall Rating of “Marginal”

Permit Requirements for Operation and Maintenance:

The permit requires, in Part III, Section B.3 – 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 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.

Findings for Operation and Maintenance:

The bar screen had rags and debris on the bars – it was obvious that the bar screen had not been cleaned since the time of the previous inflow (see Photo #1). Also, excessive foam was observed on the surface of the sequencing batch reactor (see Photo #2). Excess foam in a SBR may be caused by several different things including excessive filamentous bacteria, denitrification, too low or too high solids retention time, fats, oil, or grease, and/or over-aeration. However, stable, dark chocolate foam like the foam that was observed is due to aged systems operating with high MLSS concentration. To correct the problem, it is recommended that the operator increase the sludge wasting rate while constantly monitoring the MLSS drop and do a microscopic examination to evaluate any shifts in microbe composition (the presence of rotifers or worms signifies that the sludge is too old).

If foam continues to be a problem, other control actions that can be taken include identifying the conditions contributing to filamentous growth and correcting; optimizing nitrification/denitrification by switching blowers (oxygen) on and off during fill phase; continuing to adjust sludge wasting to achieve optimal solids retention

time; optimizing pretreatment removal of oil and grease; and closely monitoring dissolved oxygen levels and adjust aeration cycles as needed.

Section D – Self-Monitoring – Overall Rating of “Marginal”

Permit Requirements for Laboratory

The permit requires, in Part I. A, Limitations and Monitoring Requirements:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Standard Units		MEASUREMENT FREQUENCY	SAMPLE TYPE
POLLUTANT	MINIMUM	MAXIMUM		
pH	6.6	9	2/Month (*1)	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	lbs/day, unless noted			mg/l, unless noted			MEASUREMENT FREQUENCY	SAMPLE TYPE
POLLUTANT	30-DAY AVG	DAILY MAX	7-DAY AVG	30-DAY AVG	DAILY MAX	7-DAY AVG		
Flow	Report MGD	Report MGD	Report MGD	***	***	***	5/Week	Instantaneous
BOD, 5-day	75	N/A	113	30	N/A	45	2/Month (*1)	Grab
Total Suspended Solids	75	N/A	113	30	N/A	45	2/Month (*1)	Grab
E. Coli Bacteria	N/A	N/A	N/A	126	410	N/A	2/Month (*1)	Grab
Total Residual Chlorine (*2)	N/A	N/A	N/A	N/A	11 ug/l	N/A	Daily	Instantaneous Grab

Findings for Self-Monitoring:

Daily flow logs and analytical bench sheets for September and October 2014 were evaluated. It was found that flow is not being monitored at the frequency required by this permit (5/week). Two (2) days in September and six (6) days in October were missing entries. Daily TRC log sheets were not reviewed, but the inspector questions whether or not TRC is being monitored on a daily basis as required by the permit.

Section E – Flow Measurement – Overall Rating of “Marginal”

Permit Requirements for Flow Measurement:

The permit requires, in Part III, Section C.6 – Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted 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 of less than 10% from the true discharge rate throughout the range of expected discharge volumes.

Findings for Flow Measurements:

Mr. Duran indicated that he had been doing check calibrations on the flow meter, but the checks are inconsistent and not part of a standard routine. The old flow meter was replaced as part of the plant upgrades in 2013. The new meter was calibrated by the contractor in November 2013. USEPA’s NPDES Inspection Manual, Chapter 6 states, “The facility must ensure that their flow measurement systems are calibrated by a qualified source at least

once a year to ensure their accuracy.” It is also recommended that periodic checks be completed and kept on log sheets to ensure that the flow meter continues to be within the required $\pm 10\%$ as stated above. When a problem is noted the permittee can then contact the flow meter company to have it recalibrated. Initially this should be done at least once a quarter and may be reduced if no problems are being experienced.

Section G – Effluent/Receiving Waters Observations – Overall Rating of “Satisfactory”

Permit Requirements for Effluent Limitations and Monitoring Requirements:

The permit requires, in Part I. A, Limitations and Monitoring Requirements:

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge treated municipal wastewater to Hatch Drain, in Segment Number 20.6.4.101, from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Standard Units			
POLLUTANT	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH	6.6	9	2/Month (*1)	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	lbs/day, unless noted			mg/l, unless noted				
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	***	***	***	5/Week	Instantaneous
BOD, 5-day	75	N/A	113	30	N/A	45	2/Month (*1)	Grab
Total Suspended Solids	75	N/A	113	30	N/A	45	2/Month (*1)	Grab
E. Coli Bacteria	N/A	N/A	N/A	126	410	N/A	2/Month (*1)	Grab
Total Residual Chlorine (*2)	N/A	N/A	N/A	N/A	11 ug/l	N/A	Daily	Instantaneous Grab

Findings for Effluent Limitations and Monitoring Requirements:

The facility was not discharging at the time of inspection. However, as part of this inspection the Discharge Monitoring Reports (DMRs) for 2011 – 2014 were reviewed to determine if any excursions of the NPDES permit limits took place during this time period. There were no excursions noted during this time period.

APPENDIX A:

DMR and BENCH SHEET REVIEW

DMR Reported Values										
NPDES No.	Reporting end date	Parameter	30DA AVG (lbs/day)	7 DA AVG (lbs/day)	30DA AVG (mg/L)	7 DA AVG (mg/L)	Daily MAX			
NM0020010	9/30/2014	BOD, 5-day, 20 deg. C	10.5	11	6.5	7.7	-			
NM0020010	10/31/2014	BOD, 5-day, 20 deg. C	14	17	9.7	12.3	-			
NM0020010	9/30/2014	Solids, total suspended	2.6	2.7	1.5	1.7	-			
NM0020010	10/31/2014	Solids, total suspended	2.6	3.0	1.8	2.1	-			
NM0020010	9/30/2014	Flow, thru treatment plant (MGD)	-	-	0.202	0.211	0.275			
NM0020010	10/31/2014	Flow, thru treatment plant (MGD)	-	-	0.194	0.195	0.222			
NM0020010	9/30/2014	pH (SU)	-	-	-	7 (MIN)	7.2 (MAX)			
NM0020010	10/31/2014	pH (SU)	-	-	-	7.1 (MIN)	7.3 (MAX)			
NM0020010	9/30/2014	E. coli (cfu/100mL)	-	-	32	-	37			
NM0020010	10/31/2014	E. coli (cfu/100mL)	-	-	39	-	41			
NM0020010	9/30/2014	Chlorine, total residual (ug/L)	-	-	-	-	10			
NM0020010	10/31/2014	Chlorine, total residual (ug/L)	-	-	-	-	10			
SEPTEMBER 2014			ACTUAL	REPORTED	ACTUAL	REPORTED	ACTUAL	REPORTED		
			mg/L	mg/L	mgd	mgd	lbs/day	lbs/day		
NM0020010	9/10/2014	BOD, 5-day, 20 deg. C	5.4	-	0.203	-	9.1	-		
NM0020010	9/25/2014	BOD, 5-day, 20 deg. C	7.7	-	0.179	-	11.5	-		
		30DAY AVG	6.55	6.5	0.204	0.202	10.32	10.5		
		7DAY AVG	7.70	7.70	0.209	0.211	11.5	11		
OCTOBER 2014			ACTUAL	REPORTED	ACTUAL	REPORTED	ACTUAL	REPORTED		
NM0020010	10/9/2014	BOD, 5-day, 20 deg. C	7.0	-	0.194	-	11.3	-		
NM0020010	10/30/2014	BOD, 5-day, 20 deg. C	12.3	-	0.171	-	17.5	-		
		30DAY AVG	9.65	9.7	0.187	0.194	14.4	14		
		7DAY AVG	12.30	12.3	0.192	0.195	17.5	17		
FLOW Chart SEPTEMBER					FLOW Chart OCTOBER					
DAY	START	END	MGD	7-DAY AVG	DAY	START	END	MGD	7-DAY AVG	
1	HOLIDAY	-	0.224		1	123.81698	124.0052	0.188		
2	117.26508	118.1628	0.224		2	124.0052	124.16893	0.164		
3	118.1628	118.36762	0.205		3	??	??	0.197		
4	118.36762	118.56379	0.196		4	SATURDAY	-	0.197	0.192	
5	118.56375	118.76003	0.196		5	SUNDAY	-	0.197		
6	SATURDAY	-	0.201	0.208	6	124.16893	124.9564	0.197		
7	SUNDAY	-	0.201		7	124.9564	125.13948	0.183		
8	118.76003	119.36175	0.201		8	125.13948	125.34502	0.206		
9	??	??	0.230		9	125.34502	125.53867	0.194		
10	119.36175	119.82201	0.230		10	125.53867	125.71014	0.171		
11	119.82201	120.02482	0.203		11	SATURDAY	-	0.183	0.188	
12	120.02482	120.21436	0.190		12	SUNDAY	-	0.183		
13	SATURDAY	-	0.190	0.209	13	HOLIDAY	-	0.183		
14	SUNDAY	-	0.190		14	125.71014	126.44156	0.183		
15	120.21436	120.78335	0.190		15	126.44156	126.66392	0.222		
16	120.78335	120.97983	0.196		16	126.66392	126.83545	0.172		
17	120.97983	121.19812	0.218		17	126.83545	127.02525	0.190		
18	121.19812	121.47353	0.275		18	SATURDAY	-	0.184	0.189	
19	121.47353	121.67627	0.203		19	SUNDAY	-	0.184		
20	SATURDAY	-	0.201	0.193	20	127.02525	127.57764	0.184		
21	SUNDAY	-	0.201		21	127.57764	127.78135	0.204		
22	121.67627	122.27876	0.201		22	127.78135	127.98125	0.200		
23	122.27876	122.49077	0.212		23	??	??	0.183		
24	122.49077	122.68031	0.190		24	??	??	0.183		
25	122.68031	122.8593	0.179		25	SATURDAY	-	0.183	0.181	
26	122.8593	123.03037	0.171		26	SUNDAY	-	0.183		
27	SATURDAY	-	0.195	0.191	27	127.98125	128.89761	0.183		
28	SUNDAY	-	0.195		28	128.89761	129.0917	0.194		
29	123.03037	123.61406	0.195		29	129.0917	129.26445	0.173		
30	123.61406	123.81698	0.203		30	129.26445	129.43541	0.171		
					31	129.43541	129.61787	0.182		
			30-DAY AV	0.2035			30-DAY AV	0.1871		
			7-DAY AV	0.2089			7-DAY AV	0.1921		
			MAXIMUM	0.275			MAXIMUM	0.222		
			7-DAY MAX FROM SATURDAY THRU FRIDAY							
			7 DAY MAX = The highest calculated weekly average for the month in which the week begins.							
			GRAY cells = Flow was not measured on that day. Value estimated by taking difference between flow measured flow before and measured flow after divided by number of days.							

NMED/SWQB

Official Photograph Log
Photo #1

Photographer: Shelly Lemon	Date: 02-24-2015	Time: 14:33 hours
City/County: Hatch/Dona Ana County		
Location: Hatch WWTP		
Subject: Bar screen.		



NMED/SWQB

Official Photograph Log
Photo #2

Photographer: Shelly Lemon	Date: 02-24-2015	Time: 14:32 hours
City/County: Hatch/Dona Ana County		
Location: Hatch WWTP		
Subject: Foam on surface of Sequencing Batch Reactor.		



NMED/SWQB

Official Photograph Log
Photo #3

Photographer: Shelly Lemon	Date: 02-24-2015	Time: 14:39 hours
City/County: Hatch/Dona Ana County		
Location: Hatch WWTP		
Subject: Aerobic digester.		



NMED/SWQB

Official Photograph Log
Photo #4

Photographer: Shelly Lemon	Date: 02-24-2015	Time: 14:51 hours
City/County: Hatch/Dona Ana County		
Location: Hatch WWTP		
Subject: Sludge drying beds.		

