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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**

February 18, 2016

Mr. Larry Webb, Utilities Director  
City of Rio Rancho  
Post Office Box 15550  
Rio Rancho, New Mexico 87174-5550

**RE: Major Municipal, SIC 4952, NPDES Compliance Evaluation Inspection, Rio Rancho  
Wastewater Treatment Plant #2, NM0027987, February 11, 2016**

Dear Mr. Webb:

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 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)  
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](mailto:sandra.gabaldon@state.nm.us).

Sincerely,

*/s/ Bruce J. Yurdin*

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

cc: Rashida Bowlin, USEPA (6EN-AS) by e-mail  
Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail  
Racquel Douglas, USEPA (6EN-WM) by e-mail  
Gladys Gooden-Jackson (6EN-WC) by e-mail  
NMED District I, Bill Chavez, Manager, by e-mail

Mr. Edward De Lara, Operations Manager  
[edelara@ci.rio-rancho.nm.us](mailto:edelara@ci.rio-rancho.nm.us)

Mr. Jeremiah Mecham, Project Manager  
[Jeremiah.mecham@ch2m.com](mailto:Jeremiah.mecham@ch2m.com)



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   7   9   8   7   11   12   1   6   0   2   1   1   17   18   C   19   S   20   1					
M   A   J   O   R   M   U   N   I   C   I   P   A   L					
Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved	
67       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) RIO RANCHO WASTEWATER TREATMENT PLANT #2 1-25 South, Exit 242 TO 550, SOUTH ON 528 TO INDUSTRIAL LOOP	Entry Time /Date 0905 hours / February 11, 2016	Permit Effective Date November 1, 2010
	Exit Time/Date 1246 hours / February 11, 2016	Permit Expiration Date October 31, 2015
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Mr. Edward De Lara Jr., Operations Manager / (505) 891-5022 edelara@ci.rio-rancho.nm.us Mr. Jeremiah Mecham, Project Manager / (505) 896-5221 jeremiah.mecham@ch2m.com	Other Facility Data SIC: 4952 Latitude: 35°15'23" N Longitude: -106°35'32" W	
Name, Address of Responsible Official/Title/Phone and Fax Number Larry Webb, Utilities Director / (505) 896-8715 Post Office Box 15550 Rio Rancho, NM 87174-5550	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

#### Section C: Areas Evaluated During Inspection

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

S	Permit	S	Flow Measurement	M	Operations & Maintenance	N	CSO/SSO
S	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	S	Laboratory	N	Storm Water		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) /s/ Sandra Gabaldon Sandra Gabaldon	Agency/Office/Telephone/Fax NMED/SWQB/(505) 827-1041/(505) 827-0160	Date February 15, 2016
Signature of Management QA Reviewer /s/ Jennifer Foote Jennifer Foote, Municipal Team Lead	Agency/Office/Phone and Fax Numbers NMED/SWQB/(505) 827-0596/(505) 827-0160	Date February 16, 2016

## SECTION A – PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS

 S  M  U  NA (FURTHER EXPLANATION ATTACHED YES)

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 NO)

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

**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 FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED NO)  
 DETAILS:

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.  Y  N  NA  
 TYPE OF DEVICE 18" 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.  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. 100 % OF THE TIME.  Y  N  NA
6. SPIKED SAMPLES ARE ANALYZED. 100 % OF THE TIME.  Y  N  NA
7. COMMERCIAL LABORATORY USED.  Y  N  NA

LAB NAME Wilkins Environmental Consulting and Laboratories

LAB ADDRESS 832 NW 67<sup>th</sup> St., Oklahoma City, Oklahoma 73116

PARAMETERS PERFORMED Biomonitoring (WET)

**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	NONE	NONE	NONE	NONE	NONE	NONE	

RECEIVING WATER OBSERVATIONS Receiving water (Rio Grande) was clear with no noticeable smell.

**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: N/A (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

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

1. SAMPLES OBTAINED THIS INSPECTION.  Y  N  NA
2. TYPE OF SAMPLE OBTAINED  
 GRAB \_\_\_\_\_ COMPOSITE SAMPLE \_\_\_\_\_ METHOD \_\_\_\_\_ FREQUENCY \_\_\_\_\_
3. SAMPLES PRESERVED.  Y  N  NA
4. FLOW PROPORTIONED SAMPLES OBTAINED.  Y  N  NA
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE.  Y  N  NA
6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE.  Y  N  NA
7. SAMPLE SPLIT WITH PERMITTEE.  Y  N  NA
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED.  Y  N  NA
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.  Y  N  NA

Compliance Evaluation Inspection  
Rio Rancho # 2  
Wastewater Treatment Plant  
NPDES Permit No. NM0027987  
Date of Inspection: February 11, 2016

**INTRODUCTION:**

A Compliance Evaluation Inspection (CEI) was conducted at the Rio Rancho #2 Wastewater Treatment Plant (WWTP) on February 11, 2016 by Sandra Gabaldón and Daniel Valenta, of the State of New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB). This facility is classified as a major 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 NM0027987. The facility design flow is 5.5 million gallons per day (MGD).

The Rio Rancho #2 WWTP discharges into the Rio Grande River in Segment 20.6.4.106 of the Rio Grande Basin. This segment, as classified under the *Standards for Interstate and Intrastate Surface Water 20.6.4 NMAC*, has designated uses of: Irrigation, marginal warmwater aquatic life, livestock watering, wildlife habitat, primary contact, and public water supply on the Rio Grande.

The inspectors arrived at the Rio Rancho #2 WWTP at approximately 0905 hours and conducted an entrance interview with Mr. Edward De Lara Jr., Operations Manager. The inspectors made introductions, presented Ms. Gabaldón's credentials, and discussed the purpose of the inspection with Mr. De Lara. An exit interview to discuss preliminary findings of the inspection was conducted with Mr. De Lara and Mr. Jeremiah Mecham, Project Manager, at the facility.

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:**

Approximately 27 lift stations within the collection system bring raw wastewater to the WWTP #2. WWTP consists of two treatment trains. 2A is an old Schreiber Process Unit. The Schreiber unit consists of a barscreen, aeration and clarification. The aeration and clarification processes occur in the same circular unit, while the barscreen is located outside the unit to remove large debris prior to aeration.

2B is an activated sludge treatment train. 2B consists of headworks, anoxic basins, aeration basins, clarifiers, and ultraviolet disinfection. The headworks contain an automatic bar screen, a conical grit removal system with an auger and conveyor belt removal system and a Parshall flume for influent flow measurement. Screenings and grit are hauled to the landfill for final disposal.

Flow from the headworks enters the treatment units through a splitter box which evenly distributes the flow to the north and south anoxic basins. Currently, four of the eight anoxic basins are being utilized.

Dissolved oxygen is kept at approximately 0.5 mg/L to maximize denitrification. Each basin has its own dissolved oxygen meter. The south basins are currently going through rehabilitation to replace the vertical shaft mixers.

From the anoxic zone, flow enters the aeration basins. The aeration basin has multiple fine bubble diffusers. Dissolved oxygen in the aeration basins is a step down process in which the dissolved oxygen goes from approximately 3.0 mg/l to 1.0 mg/l.

Flow then enters the splitter box and is evenly distributed between the two clarifiers. The average flow is 3.5 – 4 MGD. There was algal growth along the weirs. Maintenance cleaning of the facility is done each Saturday. During the inspection, it was noted that the sump pods in both clarifiers were out of order. This was causing debris to float to the surface of the clarification basins. Mr. De Lara stated that they were working on getting these up and running and he was hoping to have them fixed by Saturday, February 13, 2016.

Wastewater then flows from the secondary clarifiers to the ultraviolet disinfection unit. There are ten modules for disinfection. After disinfection, the effluent passes through a Parshall flume and ultrasonic secondary flow measurement device before discharging to the Rio Grande, approximately three miles from the plant.

### **Sludge:**

Return activated sludge (RAS) is continuously pumped from the bottom of the secondary clarifiers and sent back to the aeration basins. Waste activated sludge (WAS) is periodically pumped to the aerated holding tank for sludge with the decant water returned to the headworks. The sludge is then processed through a belt press. A polymer is added to aid in the thickening process. The processed sludge is then landfilled at the Rio Rancho Landfill which is managed by Waste Management.

Compliance Evaluation Inspection  
Rio Rancho #2  
Wastewater Treatment Plant  
NPDES Permit No. NM0027987  
Date of Inspection: February 11, 2016

**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 A: Permit Verification – Overall Rating “Satisfactory”**

The permit expired at midnight, October 31, 2015. The permittee submitted the application in a timely manner and the permit is administratively continued.

During this inspection, discussion regarding the renewal of the permit was discussed with Mr. De Lara. This plant consists of two separate trains that join into one discharge. 40 CFR 133.102, Secondary Treatment, requires that the permittee have a limit within their permit for Biochemical Oxygen Demand and Total Suspended Solids Percent Removal.

40 CFR 133.102 (a)(3) and (b)(3) requires:

*“The 30-day average percent removal shall not be less than 85 percent”.*

Because this facility has two separate treatment trains, NMED suggests the permittee clarify with EPA the requirements for sampling and reporting the BOD, TSS percent removal so an understanding of what may be required by the permittee is known prior to the issuance of the permit.

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

The permit requires in Part III, B. Proper Operation and Maintenance:

- a. *The permittee shall at all times properly operate and maintain all the facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee as efficiently as possible and in a manner in 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:**

The east and west clarifiers in plant 2B were having problems draining through the sump system. Mr. De Lara and his operators were working on this while we were there. Mr. De Lara hopes to have both the east and west clarifiers fixed by Saturday. When we were leaving, conversations with operators suggested that the west clarifier had been fixed but they were still working on the east clarifier.

The permittee has not exceeded their permit limits with the problems they have been facing with the clarifiers at this time. No exceedances were noted in the DMRs reviewed.

In one of the aeration basins there was a broken line that is in need of repair. The broken line is causing disruptive air flow in the basin.

The Ultraviolet Light (UV) system had some foaming prior to the effluent entering the treatment unit. Although, this may inhibit the ability for the UV system to kill bacteria, the permittee has had no exceedances for E.coli or for TSS. Mr. De Lara stated that the foam is sprayed down on Saturday during the routine cleaning.

**NMED/SWQB  
Official Photograph Log  
Photo # 1**

Photographer: Daniel Valenta	Date: February 11, 2016	Time: 1035 Hours
City/County: City of Rio Rancho / Sandoval County		State: New Mexico
Location: City of Rio Rancho Wastewater Treatment Plant #2		
Subject: Aeration Basin – Broken line causing uneven air diffusion		



**NMED/SWQB  
Official Photograph Log  
Photo # 2**

Photographer: Daniel Valenta	Date: February 11, 2016	Time: 1035 Hours
City/County: City of Rio Rancho / Sandoval County		State: New Mexico
Location: City of Rio Rancho Wastewater Treatment Plant #2		
Subject: Clarifier		



**NMED/SWQB  
Official Photograph Log  
Photo # 3**

Photographer: Daniel Valenta	Date: February 11, 2016	Time: 1037 Hours
City/County: City of Rio Rancho / Sandoval County		State: New Mexico
Location: City of Rio Rancho Wastewater Treatment Plant #2		
Subject: Clarifier		



**NMED/SWQB  
Official Photograph Log  
Photo # 4**

Photographer: Daniel Valenta	Date: February 11, 2016	Time: 1120 Hours
City/County: City of Rio Rancho / Sandoval County		State: New Mexico
Location: City of Rio Rancho Wastewater Treatment Plant #2		
Subject: Ultraviolet channel – foaming prior to entering the UV system		

