



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460

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 <input type="text" value="N"/> 2 <input type="text" value="5"/> 3 <input type="text" value="A"/> <input type="text" value="R"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="6"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="6"/> 11 <input type="text" value="0"/> 12 <input type="text" value="6"/> <input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="3"/> <input type="text" value="1"/> 17 <input type="text" value="C"/> 18 <input type="text" value="S"/> 19 <input type="text" value="1"/> 20 <input type="text" value="1"/>	Remarks				
<input type="text" value="A"/> <input type="text" value="F"/> <input type="text" value="I"/> <input type="text" value="N"/> <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="-"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="0"/>					
Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved	
67 <input type="text"/> <input type="text"/> <input type="text"/> 69	70 <input type="text" value="2"/>	71 <input type="text" value="N"/>	72 <input type="text" value="N"/>	73 <input type="text"/>	74 <input type="text"/> 75 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 80

## Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) <b>City of Walnut Ridge Wastewater Treatment Facility</b> <b>8897 Oak Street</b> <b>Walnut Ridge, AR Lawrence County</b>	Entry Time /Date <b>1015 /August 31,2006</b>	Permit Effective Date <b>October 1, 2005</b>
	Exit Time/Date <b>1615 / August 31,2006</b>	Permit Expiration Date <b>September 30,2010</b>
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) <b>Gene Wheelless/ Operator/870-866-3348</b> <b>Jonathan Kopp/operator in training/870-866-3348</b>	Other Facility Data 36.06764N -90.97219W	
Name, Address of Responsible Official/Title/Phone and Fax Number <b>Lester Herring/Water and Wastewater Superintendent/870-886-2312</b> <b>City of walnut Ridge</b> <b>216 Southwest 4<sup>th</sup> Street</b> <b>Walnut Ridge, AR 72467</b>	Contacted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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

<input type="text" value="S"/> Permit	<input type="text" value="U"/> Flow Measurement	<input type="text" value="M"/> Operations & Maintenance	<input type="text" value="U"/> Sampling
<input type="text" value="U"/> Records/Reports	<input type="text" value="U"/> Self-Monitoring Program	<input type="text" value="S"/> Sludge Handling/Disposal	<input type="text" value="N"/> Pollution Prevention
<input type="text" value="M"/> Facility Site Review	<input type="text" value="N"/> Compliance Schedules	<input type="text" value="N"/> Pretreatment	<input type="text" value="N"/> Multimedia
<input type="text" value="S"/> Effluent/Receiving Waters	<input type="text" value="S"/> Laboratory	<input type="text" value="U"/> Storm Water	<input type="text" value="U"/> Other: Effluent

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

During the course of the inspection, Discharge Monitoring Reports for May, June and July, 2006, were reviewed and according to the Discharge Monitoring Reports, the effluent exceeded permit limits in the months of June and July, for Total Suspended Solids and Ammonia Nitrogen. In the month of June, the effluent also exceeded permit limits for CBOD. The second Quarter Bio-monitoring failed in two areas.

Noted major improvements in the area of effluent monitoring and laboratory records.

See attachment # 3 for additional comments.

Name(s) and Signature(s) of Inspector(s) <b>Mike Kennedy</b>	Agency/Office/Telephone/Fax Arkansas Dept. Environmental Quality/Batesville, AR	Date <b>October 6, 2006</b>
<b>Dale Washam</b> <i>Dale D. Washam</i>	Arkansas Dept. Environmental Quality/Mammoth Spring, 870-625-7477	October 6, 2006
Signature of Reviewer	Agency/Office/Phone and Fax Numbers	Date

PERMIT NO.: AR0046566

**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. **Contract Laboratory**  S  M  U  NA
- 4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.  S  M  U  NE
- 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. # 1 blower was down for repairs  S  M  U  NA
- 6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED. 2-Class III, 2- Class I, 1 operator in training  S  M  U  NA
- 7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED. (No written inventory being maintained)  S  M  U  NE
- 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  NE

**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 - SAMPLING**

PERMITTEE Sampling MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED Yes ).  
 DETAILS: **Starting the 6 hour composite sample before 10:00 a.m.**

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  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: Secondary instrument out of calibration

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.  Y  N  NA  
 TYPE OF DEVICE 90 degree v-notch weir

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 ( July 11, 2006 )  
 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, 10 % OF THE TIME.  Y  N  NA
7. COMMERCIAL LABORATORY USED. (State certified)  Y  N  NA

LAB NAME Arkansas Testing Laboratories **Bio-Analytical Laboratories**  
 \_LAB ADDRESS P.O. Box 481, Searcy, Ar 72145 **3240 Sprugin Rd, Dayline, LA 71023**  
 PARAMETERS PERFORMED CBOD, TSS, Fecal Coliform, pH, TRC, DO, NH3-N **Biomonitoring**

**SECTION G - (EFFLUENT)/RECEIVING WATERS OBSERVATIONS.**  S  M  U  NA (FURTHER EXPLANATION ATTACHED No).

**Based on visual observations only.**

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	None	None	Moderate	None	None	Light green	

Comments:

**SECTION H - SLUDGE DISPOSAL**

- SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED No).  
 DETAILS: no sludge or bio-solids were disposed of in the past year.
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 - **N/A**
- | GRAB | COMPOSITE | SAMPLE | METHOD | FREQUENCY |
|------|-----------|--------|--------|-----------|
|      |           |        |        |           |
3. SAMPLES PRESERVED.  Y  N  NA
4. FLOW PROPORTIONED SAMPLES OBTAINED.  Y  N  NA
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE.  Y  N  NA
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE.  Y  N  NA
7. SAMPLE SPLIT WITH PERMITTEE.  Y  N  NA
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED.  Y  N  NA
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.  Y  N  NA

**FLOW CALCULATION SHEET**

Field Data: Date 8/31/06 Time 1150 & 1205

Head in feet: 0.5 & .45

Type & Size of Primary Flow Measurement Device

90 degree V-notch weir

Name & Model of Secondary Flow Measurement Device

Isco 4210 Flow Totalizer Meter

Recorded Flow at date & time listed above 0.214 & 0.201 MGD

Flows are calculated from flow charts taken from the ISCO Open Channel Flow Measurement Handbook-5th Edition

% error =  $\frac{(\text{recorded value} - \text{calculated value})}{\text{calculated value}} \times 100$

% error =  $\frac{0.214-0.2857}{0.2857} \times 100 = -25\%$

$\frac{0.201-0.2319}{0.2319} \times 100 = -13\%$

% error = -25%

-13%

**Error is greater than a +/- 10 % error -- Out of compliance**

DMR Calculation Check

Reporting Period: From 2006 June 01 To 2006 June 30  
Year Month Day Year Month Day

Parameter Checked: TSS

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	<u>64.4</u>	<u>23</u>	<u>37</u>
Calculated Value:	<u>71.1</u>	<u>25</u>	<u>42</u>
Permit Value:	<u>149.0</u>	<u>15</u>	<u>23</u>

If calculated value does not equal reported value, explain:

Mr. Herring was not sure why the values did not equal. The consulting laboratory does all the calculations and reporting the values.

DMR Calculation Check

Reporting Period: From 2006 July 01 To 2006 July 31  
 Year Month Day Year Month Day

Parameter Checked: CBOD

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	<u>37.0</u>	<u>10</u>	<u>14</u>
Calculated Value:	<u>37.0</u>	<u>10.3</u>	<u>15</u>
Permit Value:	<u>99.0</u>	<u>10</u>	<u>15</u>

If calculated value does not equal reported value, explain:

Mr. Herring was not sure why the values did not equal. The consulting laboratory does all the calculations and reporting the values.

NPDES Compliance Inspection Report  
Further Explanation

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Section B

Detail 1

Analytical results were not consistent with the data reported on DMR's. A review of the June and July 2006, DMR's revealed that the laboratory results did not equal the reported value on the DMR's.

June 2006

For Total Suspend Solids the reported Loading Monthly Average was 64.4 lbs/day while the calculated value was 71.1 lbs/ day. The monthly average concentration reported value was 23 mg/l while the calculated value was 25 mg/l. The 7 day average was reported to be 37 mg/l and it should have been reported as 42 mg/l.

For CBOD the reported Loading Monthly Average was 46.8 lbs/day while the calculated value was 51 lbs/day. The concentration monthly average reported value was 15mg/l while the calculated value was 16.8 mg/l.

July 2006

For Total Suspend Solids the 7 day average was reported on the DMR to be 27 mg/l and it should have been reported as 30 mg/l.

For CBOD the 7 day average was reported on the DMR to be 14 mg/l and it should have been reported as 15 mg/l.

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Section C

Detail 2

3 air diffusers were not working properly.

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Section C

Detail 7

No written inventory of spare parts is being maintained therefore it could not be determine if adequate spare parts is being maintained.

Page 3 of 4

Section D

According to the laboratory data sheet the 6 hour composite sample for TSS, CBOD and NH3-N is being collected beginning at 3:00 AM and ending at 8:00 AM. According to Part IV item 22 of the permit, the 6 hour composite sample, first portion is not to be collected no earlier than 10:00AM.



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Section E

Detail 3& 4

A flow calculation check was performed on the effluent flow meter and it was revealed that the effluent meter was not being properly operated and maintained. Two checks were performed and both checks revealed that the effluent flow meter had an error greater than +/- 10 %. Adequate calibration checks were not being performed on the effluent flow meter to assure the meter was in continued compliance.

**Other item noted**

In reviewing the facilities records it was revealed that the permittee had not prepared a Storm Water Pollution Prevention Plan. According to condition 10 in Part III of the permit this plan was to be prepared within 60 days of the effective starting date of the permit.

# ADEQ

ARKANSAS  
Department of Environmental Quality

October 12, 2006

Lester Herring, Water & Waste water Superintendent  
City of Walnut Ridge  
216 Southwest 4<sup>th</sup> Street  
Walnut Ridge, AR 72467

RE: AFIN: 3800040

NPDES Permit No.: AR0046566

Dear Mr. Herring:

On August 31, 2006, Mike Kennedy, District Field Inspector, and I performed an investigation of a complaint which alleged that the Walnut Ridge Waste Water Treatment Plant was causing some strong odors in the area. At the time of the investigation, no odors were detected in the area. While at the facility a routine compliance inspection of the waste water treatment facility was performed in accordance with the provisions of the federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. This inspection revealed the following violations:

1. The name and address of the contract laboratory was not included on the Discharge Monitoring Report. This is a violation Part II, Section C: item 5, of the permit.
2. Improper operation and maintenance of the treatment facility; this is a violation of Part II, Section B: 1.a. of the permit. The following items were noted:
  - a) At least three air diffusers were not working properly. (Repeat Violation)
  - b) There were excess solids and algae on the surface of the clarifier weirs.
  - c) No written inventory of spare parts at the facility is being maintained.
3. According to the laboratory data sheet the 6 hour composite sample for TSS CBOD and NH<sub>3</sub>-N is being collected beginning at 3:00AM and ending at 8:00 AM. According to Part IV item 22 of the permit, the first portion for a 6 hour composite is not to be collected no earlier than 10:00 AM.
4. A flow calculation check was performed on the effluent flow meter and it was revealed that the effluent meter was not being properly operated and maintained. Two checks were performed and the results of both checks indicated that the effluent flow meter had an error greater than +/- 10 % error. This is a violation of Part II, Section C: 1, of the permit.
5. Adequate calibration checks were not being performed on the effluent flow meter to assure the meter was in compliance with permit requirements. This is a violation of Part II, Section C:1, of the permit. (Repeat Violation)

WATER DIVISION

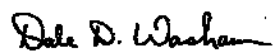
6. In reviewing the facilities records it was revealed that the permittee had not prepared a Storm Water Pollution Prevention Plan. According to item 10 in Part III of the permit, this plan was to be prepared within 60 days of the effective starting date of the permit. The effective date of the permit was October 1, 2005.
7. The effluent exceeded permit limits in the months of June and July, 2006, for Total Suspended Solids and Ammonia Nitrogen. In the month of June, the effluent also exceeded permit limits for CBOD. If you have already submitted a Noncompliance Report (NCR) on each of these exceedances then no further action regarding this item is required at this time.
8. Analytical results were not consistent with the data reported on the Discharge Monitoring Reports (DMR'S). This is a violation of the permit in Part IV by definition. A review of the June and July 2006, Discharge Monitoring Report revealed that the laboratory results did not equal the reported value on the Discharge Monitoring Report.
9.
  - a) In reviewing the June 2006 Discharge Monitoring Report, the following errors were noted; for Total Suspend Solids the reported Loading Monthly Average was 64.4 lbs/day while the calculated value was 71.1 lbs/ day. The monthly average concentration reported value was 23 mg/l while the calculated value was 25 mg/l. The 7 day average was reported to be 37 mg/l and it should have been reported as 42 mg/l. For CBOD the reported Loading Monthly Average was 46.8 lbs/day while the calculated value was 51 lbs/day. The concentration monthly average reported value was 15mg/l while the calculated value was 16.8 mg/l.
  - b) In reviewing the July 2006 Discharge Monitoring Report the following errors were noted: For Total Suspend Solids the 7 day average was reported on the DMR to be 27 mg/l and it should have been reported as 30 mg/l. For CBOD the 7 day average was reported on the DMR to be 14 mg/l and it should have been reported as 15 mg/l.

All of the Discharge Monitoring Reports, since the time your consulting laboratory started doing the calculation of the data, should be checked and corrected DMRs submitted where errors are noted in the calculations.

The above items require your immediate attention. Please submit a written response to these findings to the NPDES Enforcement Section of this Department. This response should contain documentation describing the course of action taken to correct the items noted. This corrective action should be completed as soon as possible, and the written response is due by November 3, 2006.

If I can be any assistance, please contact me at 870-625-7477.

Sincerely,



Dale Washam, Inspector Supervisor  
Water Division

cc: NPDES Enforcement Branch  
NPDES Permit Branch