

# ADEQ

ARKANSAS  
Department of Environmental Quality

September 19, 2018

Delmar R. Reppond, General Manager  
El Dorado Chemical Company  
4500 North West Avenue  
El Dorado, AR 71730

**RE: El Dorado Chemical Company Inspections (Union Co)**  
**AFIN: 70-00040** **NPDES Permit No.: AR0000752**  
**ARR001595**

Dear Mr. Reppond:

On August 8, 2018, I performed a Compliance Evaluation Inspection and Industrial Stormwater Inspection of the above-referenced facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. Copies of the inspection reports are enclosed for your records.


**Please refer to the “Summary of Findings” section of each the attached inspection reports and provide a written response for each violation that was noted.** This response should be mailed to the attention of the Office of Water Quality Inspection Branch at the address at the bottom of this letter or e-mailed to [Water-Inspection-Report@adeq.state.ar.us](mailto:Water-Inspection-Report@adeq.state.ar.us). This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible, and the written response with all necessary documentation (i.e., photos) is due by **October 3, 2018**.

If I can be of any assistance, please contact me at [youngm@adeq.state.ar.us](mailto:youngm@adeq.state.ar.us) or (501) 837-2073.

Sincerely,



Michael Young  
District 8 Field Inspector  
Office of Water Quality

 <b>A R K A N S A S</b> Department of Environmental Quality		<b>WATER DIVISION INSPECTION REPORT</b>					
		AFIN: 70-00040		PERMIT #: AR0000752		DATE: 8/8/2018	
		COUNTY: 70 Union			PDS #: 104537		MEDIA: WN
		GPS LAT: 33.264991 LONG: -92.664671 LOCATION: Entrance					
<b>FACILITY INFORMATION</b>				<b>INSPECTION INFORMATION</b>			
NAME: <b>El Dorado Chemical Company</b> LOCATION: <b>4500 North West Avenue</b> CITY: <b>El Dorado, AR 71730</b>				FACILITY TYPE: <b>2 - Industrial</b>		INSPECTOR ID#: <b>101531 S - State</b>	
<b>RESPONSIBLE OFFICIAL</b> NAME / TITLE: <b>Delmar R. Reppond / General Manager</b> COMPANY: <b>El Dorado Chemical Company</b> MAILING ADDRESS: <b>4500 North West Avenue</b> CITY, STATE, ZIP: <b>El Dorado AR 71730</b> PHONE & EXT. / FAX: <b>870-863-1400 /</b> EMAIL: <b>dreppond@edc-ark.com</b> CONTACTED DURING INSPECTION: <b>Yes</b>				FACILITY EVALUATION RATING: <b>2 - Marginal</b>		INSPECTION TYPE: <b>Compliance Evaluation</b>	
				DATE(S): <b>8/8/2018</b>		ENTRY TIME: <b>09:30</b>	
				PERMIT EFFECTIVE DATE: <b>10/1/2017</b>		PERMIT EXPIRATION DATE: <b>9/30/2022</b>	
				FAYETTEVILLE SHALE RELATED: <b>N</b>			
				FAYETTEVILLE SHALE VIOLATIONS: <b>N</b>			
				<b>INSPECTION PARTICIPANTS</b>			
				NAME/TITLE/PHONE/FAX/EMAIL/ETC.: <b>David Sartain/Environmental Coordinator/dsartain@edc-ark.com</b> <b>Wes Morgan/Environmental Technician</b> <b>Robin Goldsby/ADEQ D8 Water Inspector</b>			
<b>AREA EVALUATIONS</b>							
(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)							
<b>S</b>	PERMIT	<b>M</b>	FLOW MEASUREMENT	<b>S</b>	STORMWATER		
<b>S</b>	RECORDS/REPORTS	<b>S</b>	LABORATORY	<b>S</b>	FACILITY SITE REVIEW		
<b>S</b>	OPERATION & MAINTENANCE	<b>S</b>	EFFLUENT/RECEIVING WATER	<b>S</b>	SELF-MONITORING PROGRAM		
<b>M</b>	SAMPLING	<b>S</b>	SLUDGE HANDLING/DISPOSAL	<b>N</b>	PRETREATMENT		
<b>**</b>	OTHER:						
<b>SUMMARY OF FINDINGS</b>							
<p>1.) This facility is performing monthly <u>acute</u> Whole Effluent Toxicity (WET) testing at Outfalls 006 and 007. This is a violation of Part IA. The current permit requires <u>chronic</u> WET testing at a frequency of once every two months.</p> <p>2.) This facility is not performing the Outfall 104ST sum total for Total Recoverable Lead following the six-month interim limits at Outfalls 006 and 007. This is a violation of permit condition Part IA.</p> <p>3.) This facility is monitoring downstream flow for Outfalls 006 and 007 with a flow monitoring device that has not been maintained properly (see Photos 24-25). Additionally, calibration records were not available during the inspection. This is a violation of permit condition Part II. (15.).</p> <p>4.) The location of the downstream flow device is not representative of discharges from Outfalls 006 and 007 (see Figure 2). This is a violation of permit condition Part III. (C.) (2).</p> <p>5.) During the inspection, it was unknown whether the device chosen to monitor flow downstream of Outfalls 006 and 007 was installed, calibrated, and maintained to ensure accuracy with a deviation of less than ±10%. This is a violation of permit condition Part III. (C.) (3.).</p>							

**GENERAL COMMENTS**


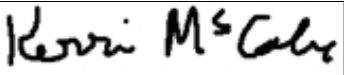
On August 8, 2018, I performed an inspection at El Dorado Chemical Company (EDCC) with the above participants. EDCC is a fertilizer manufacturer with six (6) permitted outfalls. Outfall 001 and Outfall 010 are the outfalls for the treated process wastewater. The treatment process for these outfalls is pH adjustment (see Photos 12-13), aerated lagoon (see Photos 14-15), and then it is pumped (see Photo 16) to Lake Kildeer, which is a ~50-acre facultative lagoon with water recirculation (see Photos 17-18). Outfall 001 (see Photos 22-23) only discharges to UT of Flat Creek in emergency conditions when the level of the main treatment lagoon, Lake Kildeer, exceeds the freeboard. Outfall 010 is routed to the Ouachita Joint Pipeline (OJP; permit AR0050296) and is discharged to the Ouachita River after flow measurement (see Photo 19 and 21) and continuous pH monitoring (see Photo 20). Outfall 002 is an emergency discharge location from Lake Lee when the freeboard of Lake Lee is exceeded. Outfall 003 discharges continuously and primarily consists of sanitary wastewater from bathroom facilities and showers. The treatment for Outfall 003 is a bar screen (see Photo 6), followed by Imhoff tanks (see Photo 7), sand filter beds (see Photos 8-9), and the treated wastewater is discharged to UT of Flat Creek (see Photo 10). Outfalls 006 and 007 discharge contaminated stormwater from the west-side of EDCC (see Photos 1-5). There is no treatment for these outfalls. Exceedances of Total Lead and Total Zinc have been numerous at these outfalls. Additionally, Whole Effluent Toxicity (WET) testing has had numerous failures. The facility has added additional conditions in the current permit to take into effect the upstream dilution for the receiving stream for Outfalls 006 and 007. Requirements for 104ST (sum total of Outfalls 006 and 007) were initiated for WET testing in October 2017 when the permit was deemed effective. Per Footnote 4 of 104ST, the requirements for Lead and Zinc In-stream Waste Concentrations (IWC) were effective within six-months of the effective date of the permit (May 2018). The facility has a monitoring requirement for downstream flow for Outfalls 006 and 007. Downstream flow is subtracted from the total flow of Outfalls 006 and 007 to calculate upstream flow. Upstream flow values are used to obtain the critical dilution series for Outfalls 006 and 007 WET testing and 104ST Lead and Zinc IWC.

**Records Review:**

During the inspection, I requested records for several months of monitoring at Outfalls 003, 006, 007, and 010. The records were complete and are maintained electronically. During the record review, I identified that the facility has not been completing WET testing as required by the current permit Part IA for Outfalls 006 and 007. The facility is required to complete chronic WET testing once every two months. Currently, the facility is completing acute WET testing once every month. Additionally, the facility did not start submitting 104ST IWC for Lead and Zinc following the six month interim period after the effective date of the permit. Also, during the inspection, records and information related to the downstream flow monitoring equipment were not available as the flow device is being maintained and operated by a third-party contractor.

**Facility Inspection:**

During the inspection, I observed each outfall and the treatment processes for the wastewater. All treatment devices were in operation at the time of inspection. Outfall 003 had excessive algae growth at the discharge location, but the formation of slime banks was not evident (see Photo 11). The downstream flow monitoring location chosen is not representative of the flow from Outfalls 006 and 007 (see Figure 2). The location incorporates drainage that is not directly from Outfalls 006 and 007. The justification for downstream flow monitoring is that the location that directly reflects the commingled discharges of Outfalls 006 and 007 without the influence of additional discharges. Additionally, the device installed is a sonde mounted on a pole (see Photos 24-25). During the inspection, the pole was leaning at an angle and is installed in a ditch that has the probability of having flow not being evenly distributed across the channel. During the inspection, I was unable to verify that this channel had been cross-sectioned to obtain the proper flow measurements with a deviation of  $\pm 10\%$ .

INSPECTOR'S SIGNATURE:  <b>Michael Young</b>	DATE: <b>9/6/2018</b>
SUPERVISOR'S SIGNATURE:  <b>Kerri McCabe</b>	DATE: <b>9/18/2018</b>

<b>SECTION A: PERMIT VERIFICATION</b>	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ALL DISCHARGES ARE PERMITTED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION B: RECORDKEEPING AND REPORTING EVALUATION</b>	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
a. DATES AND TIME(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. EXACT LOCATION(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. ANALYTICAL METHODS AND TECHNIQUES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
e. RESULTS OF CALIBRATIONS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
f. RESULTS OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
g. DATES AND TIMES OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
h. NAME OF PERSON(S) PERFORMING ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION C: OPERATIONS AND MAINTENANCE</b>	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
2. TREATMENT UNITS PROPERLY MAINTAINED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE

<b>SECTION D: SAMPLING</b>		
<b>PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS</b>		<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>DETAILS:</b>		
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT: <u>WET testing for Outfalls 006 and 007.</u>		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. SAMPLES REFRIGERATED DURING COMPOSITING:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER PRESERVATION TECHNIQUES USED:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION E: FLOW MEASUREMENT</b>		
<b>PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS</b>		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>DETAILS: <u>Outfall 003</u></b>		
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: __ TYPE OF DEVICE: <u>Parshall flume</u>		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
4. CALIBRATION FREQUENCY ADEQUATE:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
9. HEAD MEASURED AT PROPER LOCATION:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION E: FLOW MEASUREMENT</b>		
<b>PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS</b>		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>DETAILS: <u>Outfall 006 - Totalizer maintained, but facility takes instantaneous measurements.</u></b>		
10. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: __ TYPE OF DEVICE: <u>Parshall flume</u>		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
11. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
12. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: <u>Totalizer not used for compliance</u>		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
13. CALIBRATION FREQUENCY ADEQUATE:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
14. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
15. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
16. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
17. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
18. HEAD MEASURED AT PROPER LOCATION:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION E: FLOW MEASUREMENT</b>		
<b>PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS</b>		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>DETAILS: <u>Outfall 007 – Totalizer maintained, but facility takes instantaneous measurements.</u></b>		
19. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: __ TYPE OF DEVICE: <u>Parshall flume</u>		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
20. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
21. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: <u>Totalizer not used for compliance</u>		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
22. CALIBRATION FREQUENCY ADEQUATE:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
23. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
24. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
25. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
26. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
27. HEAD MEASURED AT PROPER LOCATION:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE

<b>SECTION E: FLOW MEASUREMENT</b>	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>DETAILS: <u>Outfall 010</u></b>	
28. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED:___ TYPE OF DEVICE: <u>Closed pipe</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
29. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
30. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: <u>Magflow device</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
31. CALIBRATION FREQUENCY ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
32. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
33. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
34. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
35. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
36. HEAD MEASURED AT PROPER LOCATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION E: FLOW MEASUREMENT</b>	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>DETAILS: <u>Downstream flow for Outfalls 006 and 007; contracted to GBMc Associates.</u></b>	
37. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED:___ TYPE OF DEVICE: <u>No primary device</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
38. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
39. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: <u>Unknown sonde</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
40. CALIBRATION FREQUENCY ADEQUATE:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
41. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
42. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
43. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
44. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
45. HEAD MEASURED AT PROPER LOCATION:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
<b>SECTION F: LABORATORY</b>	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>DETAILS:</b>	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. QUALITY CONTROL PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. DUPLICATE SAMPLES ARE ANALYZED $\geq$ 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SPIKED SAMPLES ARE ANALYZED $\geq$ 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. COMMERCIAL LABORATORY USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. LAB NAME: <u>American Interplex</u>	
b. LAB ADDRESS: <u>Little Rock, AR</u>	
c. PARAMETERS PERFORMED: <u>All</u>	
8. BIOMONITORING PROCEDURES ADEQUATE: <u>Facility is doing monthly acute instead of once/two months chronic.</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. PROPER ORGANISMS USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER DILUTION SERIES FOLLOWED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. PROPER TEST METHODS AND DURATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE

<b>SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS</b>							
BASED ON VISUAL OBSERVATIONS ONLY						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001							No Discharge
002							No Discharge
003	No	No	No	No	No	Colorless	
006							No Discharge
007							No Discharge
010	No	No	No	No	No	Colorless	
<b>SECTION H: SLUDGE DISPOSAL</b>							
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: <u>Sludge removed from Lake Lee in 2006.</u>							
1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE):							
<b>SECTION I: SAMPLING INSPECTION PROCEDURES</b>							
SAMPLE RESULTS WITHIN PERMIT REQUIREMENTS						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
1. SAMPLES OBTAINED THIS INSPECTION:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. TYPE OF SAMPLE: <input type="checkbox"/> GRAB:___ <input type="checkbox"/> COMPOSITE:___ METHOD:___ FREQUENCY:___							
3. SAMPLES PRESERVED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. FLOW PROPORTIONED SAMPLES OBTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. SAMPLE SPLIT WITH PERMITTEE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
<b>SECTION J: STORM WATER POLLUTION PREVENTION PLAN</b>							
STORM WATER MANAGEMENT MEETS PERMIT REQUIREMENTS						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: <u>Inspected under IGP ARR001595 (see separate report).</u>							
1. SWPPP UPDATED AS NEEDED:___ DATE OF LAST UPDATE:___						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
3. POLLUTION PREVENTION TEAM IDENTIFIED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. POLLUTION PREVENTION TEAM PROPERLY TRAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. LIST OF POTENTIAL POLLUTANT SOURCES:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. LIST OF STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. LIST OF NON-STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
10. BMPS PROPERLY OPERATED AND MAINTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
11. INSPECTIONS CONDUCTED AS REQUIRED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	



**DMR Calculation Check**

Reporting Period: From 2018 06 01 To 2018 06 30  
 Year Month Day Year Month Day

Parameter Checked: TSS - Outfall  
010

	<b>Loading Mass Mo. Avg. - lbs/day</b>	<b>Concentration Monthly Mo. Avg. - mg/l</b>	<b>7-day Avg. - mg/l</b>
Reported Value:	<u>280.32</u>	<u>N/A</u>	<u>N/A</u>
Calculated Value:	<u>280.32</u>	<u>N/A</u>	<u>N/A</u>
Permit Value:	<u>500.4</u>	<u>N/A</u>	<u>N/A</u>

If calculated value does not equal reported value, explain:

Equal

**DMR Calculation Check**

Reporting Period: From 2018 06 01 To 2018 06 30  
 Year Month Day Year Month Day

Parameter Checked: TDS – Outfall  
007

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	<u>1244</u>	<u>830</u>	<u>830</u>
Calculated Value:	<u>1244</u>	<u>830</u>	<u>830</u>
Permit Value:	<u>Report</u>	<u>Report</u>	<u>Report</u>

If calculated value does not equal reported value, explain:

**Equal**

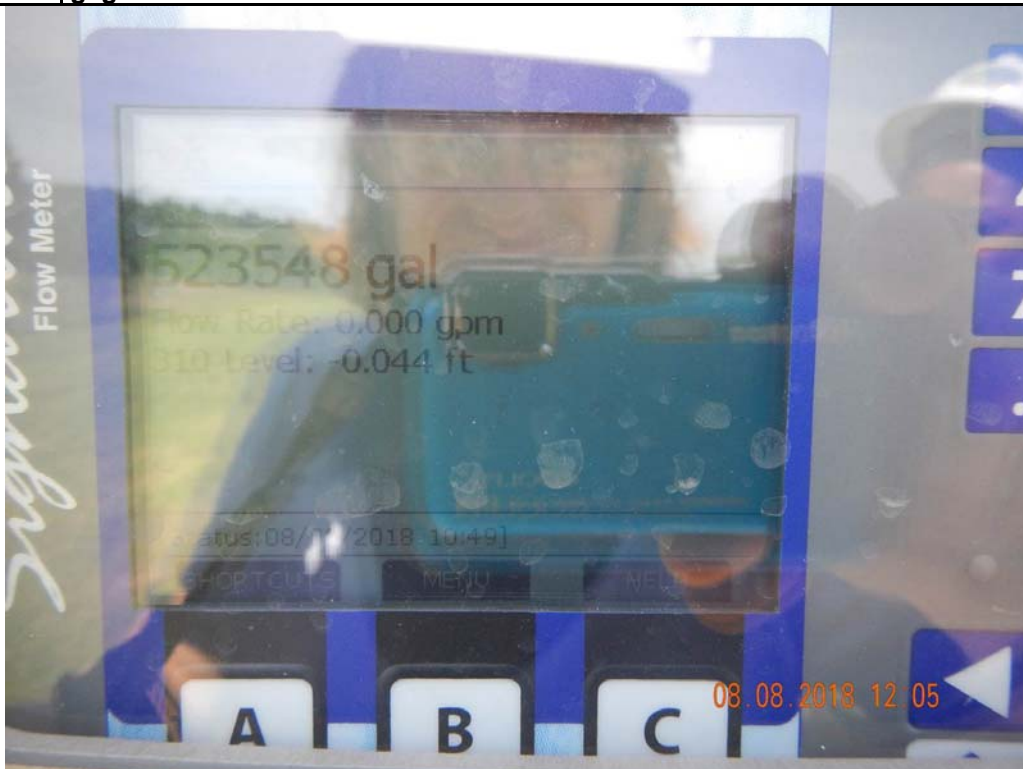
**This facility has interim Total Dissolved Solid (TDS) reporting requirements. In October 2020, the facility will have concentration limits of 138 mg/L Monthly Average and 207 mg/L Daily Max. The reported results will exceed the permit requirements following the interim limits.**

**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:05</b>
		Photo #:	<b>1</b>
Description:	<b>Outfall 006 structure.</b>		



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:05</b>
		Photo #:	<b>2</b>
Description:	<b>Facility utilizes a totalizer at Outfall 006. Submits instantaneous flow from staff gage.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>			
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:06</b>	
Description:	<b>Flow monitoring gage for Outfall 006.</b>		Photo #:	<b>3</b>



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:09</b>	
Description:	<b>Outfall 007 structure.</b>		Photo #:	<b>4</b>



**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>				
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	Time:	<b>12:10</b>
Witness:	<b>Robin Goldsby</b>	Photo #:	<b>5</b>		
Description:	<b>Flow monitoring gage for Outfall 007.</b>				



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	Time:	<b>13:13</b>
Witness:	<b>Robin Goldsby</b>	Photo #:	<b>6</b>		
Description:	<b>Influent for Outfall 003.</b>				



**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>				
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	Time:	<b>13:11</b>
Witness:	<b>Robin Goldsby</b>	Photo #:	<b>7</b>		
Description:	<b>Imhoff tanks for Outfall 003 have no sludge evident.</b>				



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	Time:	<b>13:12</b>
Witness:	<b>Robin Goldsby</b>	Photo #:	<b>8</b>		
Description:	<b>Sand filter bed for Outfall 003.</b>				



**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>13:12</b>
		Photo #:	<b>9</b>
Description:	<b>Sand filter bed for Outfall 003.</b>		



08.08.2018 13:12

Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>13:06</b>
		Photo #:	<b>10</b>
Description:	<b>Outfall 003 discharge was colorless at time of inspection.</b>		



08.08.2018 13:08

**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>13:09</b>
		Photo #:	<b>11</b>
Description:	<b>Outfall 003 discharge. Note excessive algae.</b>		



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>11:51</b>
		Photo #:	<b>12</b>
Description:	<b>Location of pH neutralization.</b>		





**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>11:52</b>
		Photo #:	<b>13</b>
Description:	<b>Caustic tank for pH neutralization.</b>		



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>11:55</b>
		Photo #:	<b>14</b>
Description:	<b>Aeration of Lake Lee.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>11:57</b>
		Photo #:	<b>15</b>
Description:	<b>Aerators in Lake Lee. Note not all aerators functioning at time of inspection.</b>		



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>11:56</b>
		Photo #:	<b>16</b>
Description:	<b>Pump for effluent from Lake Lee to Lake Kildeer.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:19</b>
		Photo #:	<b>17</b>
Description:	<b>Pumps and recirculation for Outfall 010.</b>		



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:19</b>
		Photo #:	<b>18</b>
Description:	<b>Clarity of Lake Kildeer.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:21</b>
		Photo #:	<b>19</b>
Description:	<b>Magflow device for Outfall 010.</b>		



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:21</b>
		Photo #:	<b>20</b>
Description:	<b>Continuous pH monitoring device for Outfall 010.</b>		





**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>				
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	Time:	<b>12:26</b>
Witness:	<b>Robin Goldsby</b>	Photo #:	<b>21</b>		
Description:	<b>Flow monitoring equipment for Outfall 010.</b>				



Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	Time:	<b>12:27</b>
Witness:	<b>Robin Goldsby</b>	Photo #:	<b>22</b>		
Description:	<b>Outfall 001.</b>				



Water Division Photographic Evidence Sheet			
Location:	<b>El Dorado Chemical Company</b>		
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:28</b>
		Photo #:	<b>23</b>
Description:	<b>Flow monitoring location for Outfall 001.</b>		
			
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>
Witness:	<b>Robin Goldsby</b>	Time:	<b>12:51</b>
		Photo #:	<b>24</b>
Description:	<b>Downstream flow monitoring location for Outfalls 006 and 007.</b>		
			

**Water Division Photographic Evidence Sheet**

Location:	<b>El Dorado Chemical Company</b>				
Photographer:	<b>Michael Young</b>	Date:	<b>08/08/2018</b>	Time:	<b>12:52</b>
Witness:	<b>Robin Goldsby</b>	Photo #:	<b>25</b>		
Description:	<b>Location for downstream monitoring of Outfalls 006 and 007. Note pole is leaning.</b>				

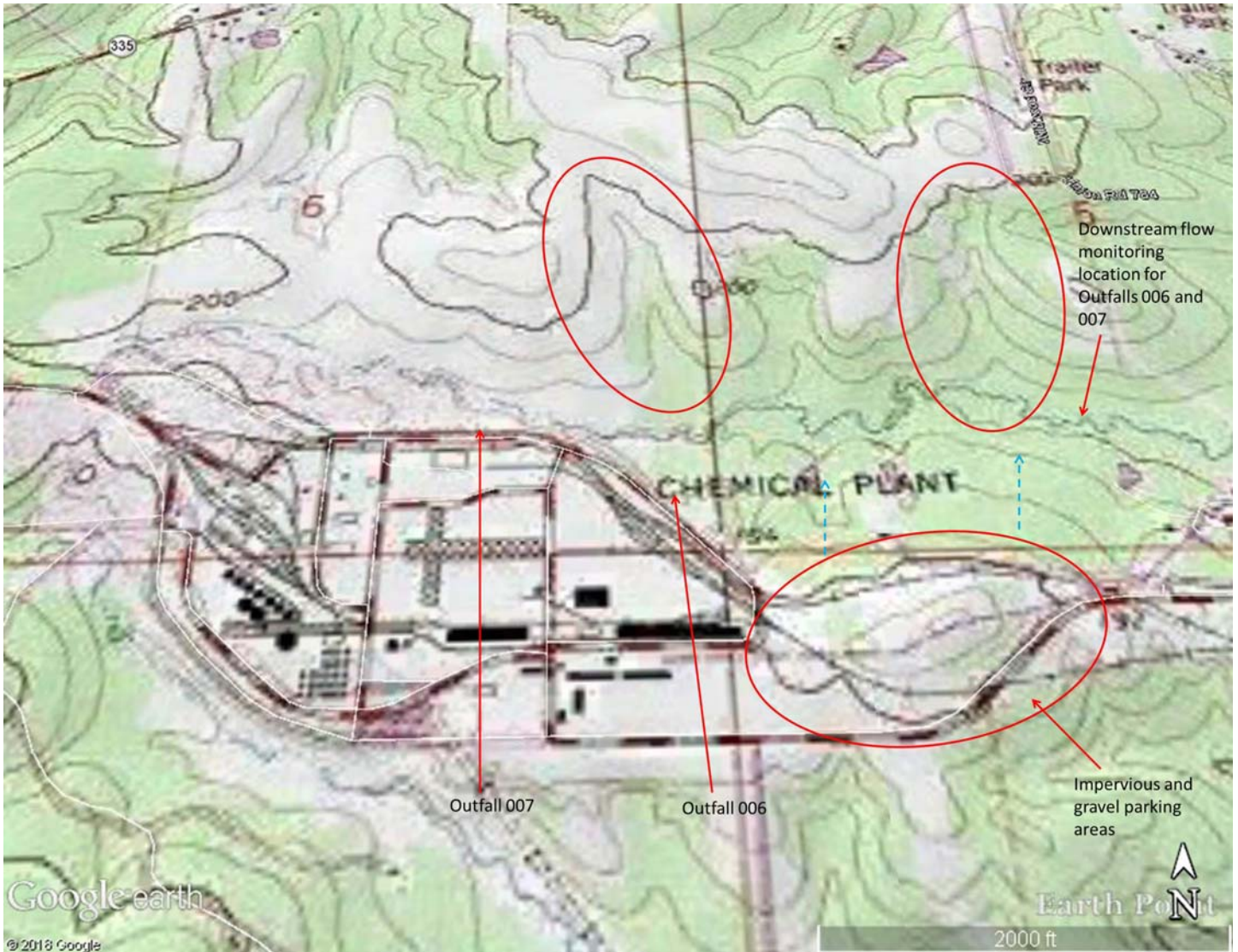


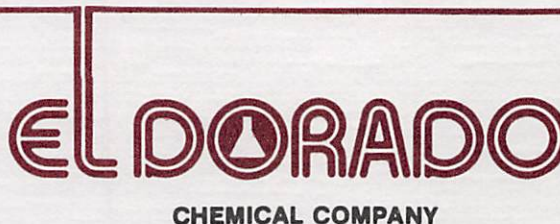
Figure 1. Overview of El Dorado Chemical Company with location of treatment lakes and outfalls identified.





Figure 2. Topographic view of EDCC. Identified are Outfalls 006 and 007, the downstream flow monitoring, and areas of drainage to the downstream monitoring location that are not associated with Outfalls 006 and 007 (circled in red).





October 3, 2018

Mr. Michael Young  
Arkansas Department of Environmental Quality  
Office of Water Quality - Inspection Branch  
3400 W. Hillsboro  
El Dorado, Arkansas 71730

RE: El Dorado Chemical Company  
AFIN: 70-00040 - NPDES Permit No. AR0000752  
Response to Compliance Evaluation Inspection

Dear Mr. Young,

Please accept this letter in response to an Arkansas Department of Environmental Quality (ADEQ) letter/report dated September 19, 2018, regarding the ADEQ's August 8, 2018 environmental compliance inspection completed at El Dorado Chemical Company (EDCC). Included below are the report's findings followed by our responses.

1. ***"This facility is performing monthly acute Whole Effluent Toxicity (WET) testing at Outfalls 006 and 007. This is a violation of Part 1A. The current permit requires chronic WET testing at a frequency of once every two months."***

**Response:**

Interim and Final Chronic Whole Effluent Toxicity (WET) testing requirements for Outfalls 006, 007, and 104ST were stayed as part of the permit appeal filed on September 27, 2017 for the above-referenced permit. Pursuant to APC&EC Regulation 8.612(E), a facility holding an existing permit must comply with the conditions of the existing permit which correspond to the conditions being stayed.

The previous permit (effective July 1, 2002) required monthly Acute Biomonitoring at Outfalls 006 and 007. ADEQ and ECCC entered into a Permit Appeal Resolution (PAR) for Docket No. 17-001-P, LIS 18-060, on July 6, 2018.

PAR Order and Agreement; Item 2(a)(i) under "Interim WET Testing Requirements" states that for discharges at Outfall 006 and 007 that occur for less than four (4) days, EDCC shall conduct WET testing in accordance with the acute WET testing protocols in EDCC's previous Permit. Item 2(a)(ii) further states that for discharges at Outfall 006 and 007 that occur for more than (4) days, EDCC shall conduct WET testing in accordance with the chronic WET testing protocols in the appealed Permit.

Since the PAR execution date (July 6, 2018), EDCC has not had a discharge through Outfalls 006 and 007 that has lasted for more than 4 days and has maintained previous permit monthly acute WET testing protocols, as required. Daily flow records for Outfalls 006 and 007 for the months of July - September are provided in Attachment 1.

2. ***“The facility is not performing the Outfall 104ST sum total for Total Recoverable Lead following the six-month interim limits at Outfall 006 and 007. This is a violation of permit condition Part IA.”***

**Response:**

Permit limits and any associated conditions for Total Recoverable Lead IWC and Total Recoverable Zinc IWC at Outfall 104ST were stayed as part of the permit appeal filed on September 27, 2017 for the above-referenced permit. Pursuant to APC&EC Regulation 8.612(E), a facility holding an existing permit must comply with the conditions of the existing permit which correspond to the conditions being stayed.

ADEQ and ECCC entered into a Permit Appeal Resolution (PAR) for Docket No. 17-001-P, LIS 18-060, on July 6, 2018. In accordance with the PAR, final effluent limitations for metals will not be determined until a revised ELCC Tributary Report is completed and submitted to ADEQ. PAR Order and Agreement Item 5 requires this report to be submitted to ADEQ no later than March 31, 2019. A revised ELCC Tributary Report has not been completed nor submitted to ADEQ as of this date.

Additionally, Permit Appeal Resolution (PAR) for Docket No. 17-001-P, LIS 18-060, on July 6, 2018, Order and Agreement 3 states that ADEQ and EDCC agree that a modified Permit with Final Effluent Limitations for Minerals and Ammonia and Final Effluent Limitations for Metals and WET Testing Requirements should not be issued pursuant to this PAR before EDCC has been given time to submit the Updated Background Flow Report and seek EPA’s approval of the Revised ELCC Tributary Report.

3. ***“The facility is monitoring downstream flow for Outfall 006 and 007 with a flow monitoring device that has not been maintained properly (see Photos 24-25). Additionally, calibration records were not available during the inspection. This is a violation of permit conditional Part II. (15.)”***

**Response:**

The in-stream flow monitoring device shown in Photos 24-25 and as indicated in Figures 1 and 2 of the inspection report is not the device nor the location used to satisfy the in-stream monitoring requirements for Outfalls 006 and 007. During the initial setup phase, the entire drainage tributary between Outfalls 006 and 007 and EDCC’s property line was investigated for potential in-stream monitoring location sites. Monitoring equipment was initially installed at multiple locations to aid in the identification of a suitable site with regards to stream channel geometry and dynamics (lag time, infiltration, time of travel, etc.) of the drainage system. The site evaluated and detailed in the inspection report was the downstream most location used during the identification of the suitable site and was not the location chosen as EDCC’s in-stream monitoring site.

The area maps provided in Attachment 2 shows the current location of the monitoring device that is utilized for EDCC’s downstream flow monitoring in accordance with Part 1A of the permit. Additionally, photos of the monitoring device and location are provided in Attachment 3.

The device utilized for the instream monitoring is a Hoboware U20-L water level logger that was installed in the unnamed discharge tributary below EDCC's Outfalls 006 and 007 to record stream stage data. The logger is factory calibrated and guaranteed by Hoboware to an accuracy of 0.1%. Additional calibration of the pressure sensor is not needed or possible. Maintenance and data retrieval are completed by GBMc & Associates (GBMc) on a weekly basis. Maintenance includes cleaning sediment from the level logger and PVC housing. Each week water level data is retrieved, and a physical water level is measured (if not dry) to serve as a reference point to the level logger data. This physical water level measurement is applied to the level logger data on a monthly basis during the assimilation of data. The reference point is used to calibrate water levels for an entire series of measurements. The measurement is also used for QA/QC purposes as it can be compared to the stream stage recorded on the level logger. Weekly data and notes are recorded in a spreadsheet format.

Following the United States Geological Survey (USGS) guidance, stage data is converted to flow using a stream stage vs stream flow rating curve. The rating curve (Figure 1.0) was developed using data collected from June 2017 to March 2018 and provided a  $R^2$  value of 0.9981 indicating an excellent relationship between stream stage and stream flow. Additionally, this data was submitted to ADEQ on August 3, 2018, as of the *Updated Background Flow Report* required with the aforementioned PAR. Monthly, associated information and stream flow are provided to EDCC to be utilized for the previous month's discharge monitoring report.

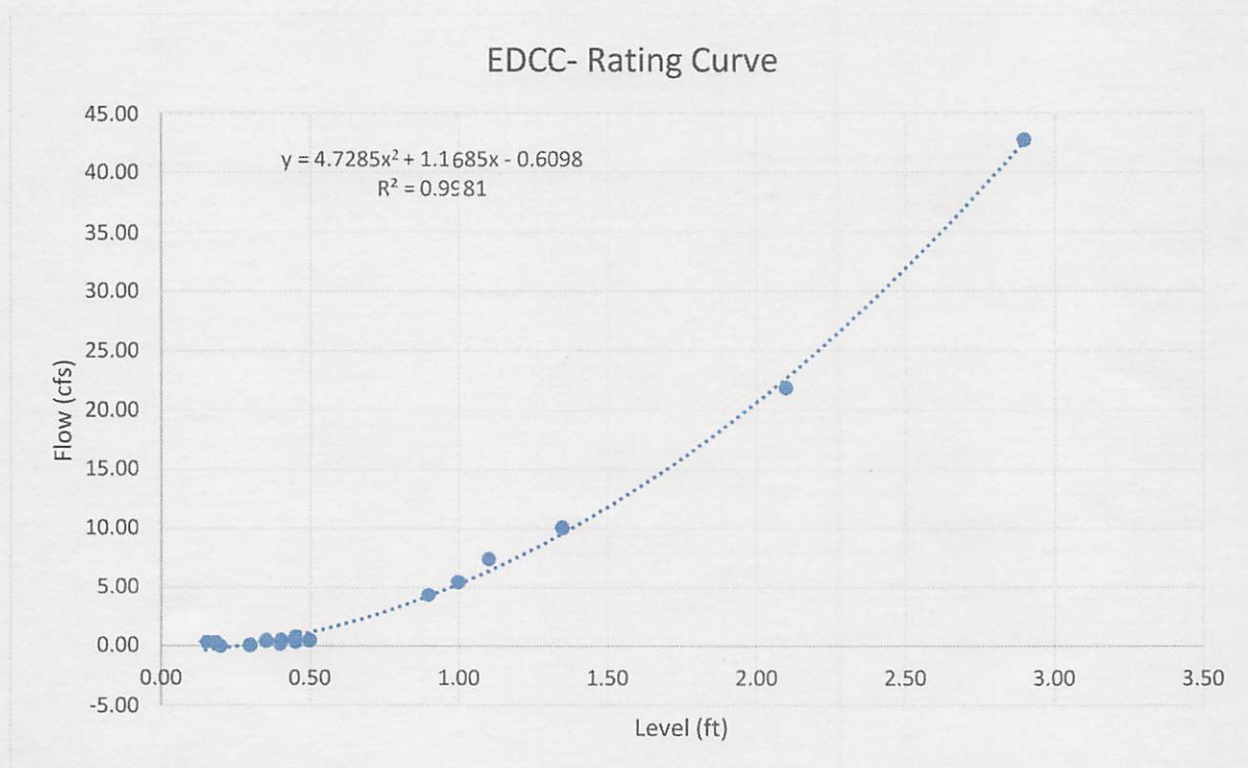


Figure 1.0. EDCC Downstream Monitoring Location Rating Curve.

To avoid future confusion, all unused or extra flow gauging equipment will be removed.

- 4. "The location of the downstream flow device is not representative of discharges from Outfalls 006 and 007 (see Figure 2). This is a violation of permit condition Part III. (C.) (2)."**

**Response:**

The in-stream flow monitoring device shown in Photos 24-25 and as indicated in Figures 1 and 2 of the inspection report is not the device used to satisfy the in-stream monitoring requirements for Outfalls 006 and 007. As indicated above, during the initial setup phase, multiple locations were evaluated for the in-stream monitoring location. Monitoring equipment was installed (and is still in-place) at this location, however, this site was not chosen and is no longer being used.

The area maps provided in Attachment 2 shows the current location of the downstream monitoring device. This location is representative of discharges from Outfalls 006 and 007, as well as the upstream watershed flow that is required to be calculated (Upstream Flow = Downstream Flow – Outfall 006 Flow - Outfall 007 Flow) and reported as part of Condition 13 of Part II and detailed in Section 13.A.1.ii (Fact Sheet) of EDCC's current permit.

Also see Response No. 3 above.

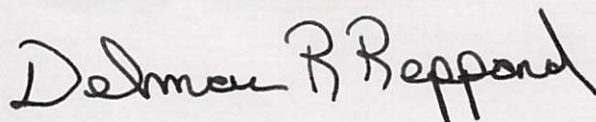
- 5. "During the inspection, it was unknown whether the device chosen to monitor the flow downstream of Outfall 006 and 007 was installed, calibrated, and maintained to ensure accuracy with a deviation of less than  $\pm 10\%$ . This is a violation of permit condition Part III. (C.) (3)."**

**Response:**

See Response No. 3 above.

Thank you for the opportunity to respond to this inspection report. If you have any questions or need additional information, please don't hesitate to contact David Sartain at [DSartain@edc-ark.com](mailto:DSartain@edc-ark.com) or (870) 863-1397, or Kyle Hathcote at [khathcote@gbmcassoc.com](mailto:khathcote@gbmcassoc.com) or (501) 847-7077.

Respectfully Submitted,  
El Dorado Chemical Corporation



Delmar R. Reppond  
General Manager

Attachments

**Attachment 1**

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**Outfalls 006 and 007  
Daily Flow Records  
July 2018-September 2018**

<b>Total Daily Flow: July 2018</b>		
<b>Date</b>	<b>Outfall 006</b>	<b>Outfall 007</b>
	<b>MGD</b>	<b>MGD</b>
1-Jul-18		
2-Jul-18		
3-Jul-18		
4-Jul-18		
5-Jul-18		
6-Jul-18	2.0360	0.3652
7-Jul-18		
8-Jul-18		
9-Jul-18		
10-Jul-18		
11-Jul-18		
12-Jul-18		
13-Jul-18		
14-Jul-18		
15-Jul-18		
16-Jul-18		
17-Jul-18		
18-Jul-18		
19-Jul-18		
20-Jul-18		
21-Jul-18		
22-Jul-18		
23-Jul-18		
24-Jul-18		
25-Jul-18		
26-Jul-18		
27-Jul-18		
28-Jul-18	11.7000	4.3690
29-Jul-18		
30-Jul-18	0.1512	0.0575
31-Jul-18		

<b>Total Daily Flow: August 2018</b>		
<b>Date</b>	<b>Outfall 006</b>	<b>Outfall 007</b>
	<b>MGD</b>	<b>MGD</b>
1-Aug-18		
2-Aug-18		
3-Aug-18		
4-Aug-18		
5-Aug-18		
6-Aug-18		
7-Aug-18		
8-Aug-18		
9-Aug-18		
10-Aug-18		
11-Aug-18		
12-Aug-18		
13-Aug-18		
14-Aug-18		
15-Aug-18		
16-Aug-18		
17-Aug-18	3.4450	0.3652
18-Aug-18		
19-Aug-18		
20-Aug-18	0.2598	0.1797
21-Aug-18		
22-Aug-18		
23-Aug-18		
24-Aug-18		
25-Aug-18		
26-Aug-18		
27-Aug-18		
28-Aug-18		
29-Aug-18		
30-Aug-18		
31-Aug-18		

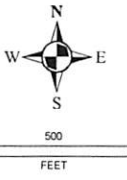


<b>Total Daily Flow: September 2018</b>		
<b>Date</b>	<b>Outfall 006</b>	<b>Outfall 007</b>
	<b>MGD</b>	<b>MGD</b>
1-Sep-18		
2-Sep-18		
3-Sep-18	3.4450	0.6075
4-Sep-18		
5-Sep-18		
6-Sep-18		
7-Sep-18	0.7885	0.2618
8-Sep-18	0.1086	0.1099
9-Sep-18		
10-Sep-18		
11-Sep-18		
12-Sep-18		
13-Sep-18		
14-Sep-18		
15-Sep-18		
16-Sep-18		
17-Sep-18		
18-Sep-18		
19-Sep-18		
20-Sep-18		
21-Sep-18		
22-Sep-18	0.7885	0.6075
23-Sep-18		
24-Sep-18		
25-Sep-18		
26-Sep-18		
27-Sep-18		
28-Sep-18		
29-Sep-18		
30-Sep-18		

**Attachment 2**

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**Outfalls 006 and 007  
Instream Monitoring Device  
Location**



- Outfalls  
EDCC Outfalls  
006 and 007 -
- Downstream  
Monitoring  
Location
- ADEQ Inspection  
Report Location
- Streams

NO	DATE	REVISION	BY	CK	APPR

DESIGNED BY	SKH
CHECKED BY	SKH
APPR BY	SKH
DRAWN BY	ALB



SHEET TITLE

**DOWNSTREAM MONITORING LOCATION  
AERIAL MAP**

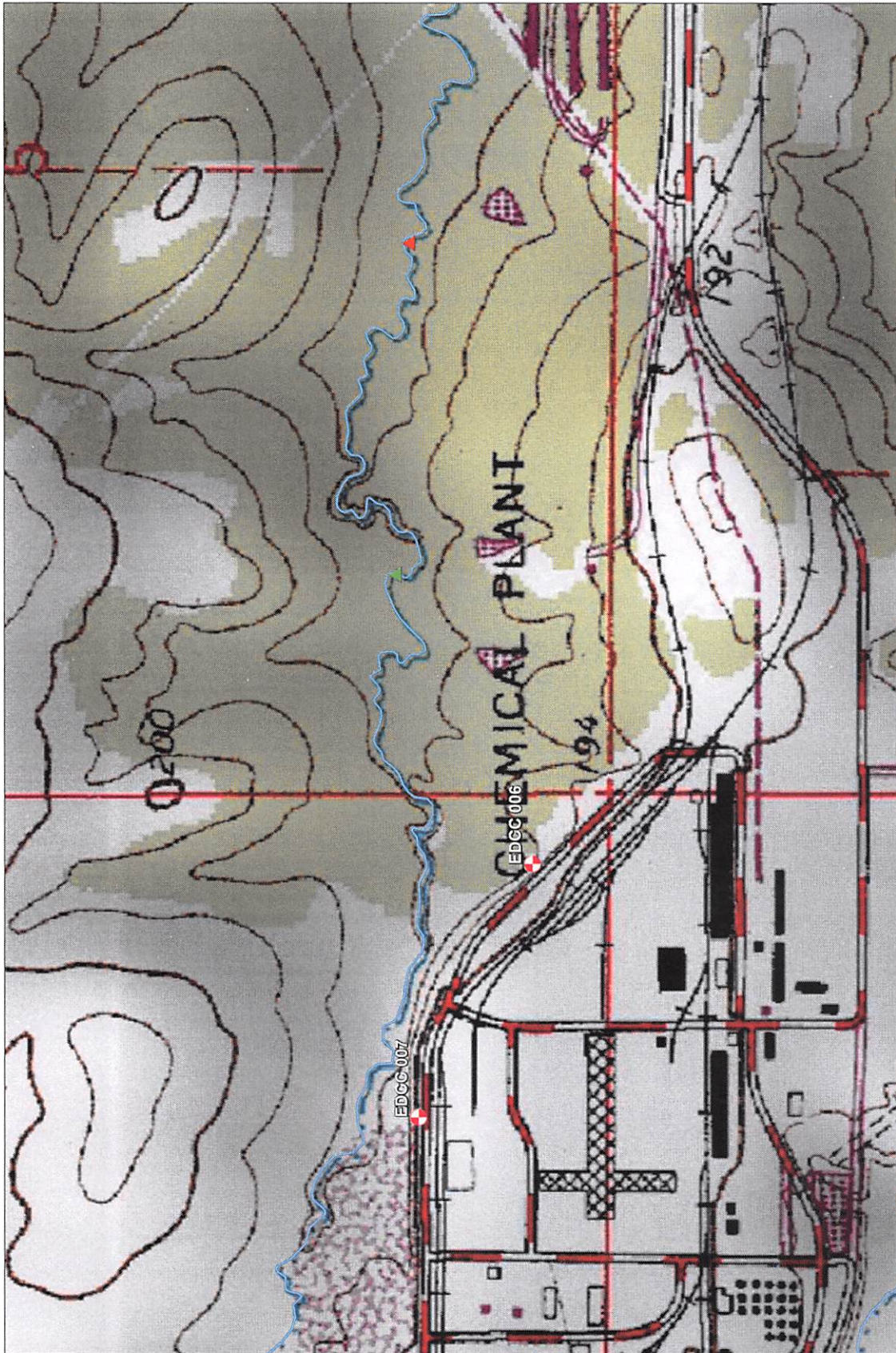
JOB NAME

**EL DORADO CHEMICAL COMPANY  
UNION COUNTY, ARKANSAS**

PROJECT NO. 2042-99-010	REV. NO.
DATE 09/28/2018	
SCALE SHOWN	SHEET NO. <b>S1</b>



- Outfalls
- EDCC Outfalls 006 and 007 - Downstream Monitoring Location
- ADEO Inspection Report Location
- Streams



PROJECT NO.	2042-09-010	DATE	05/25/2018	SCALE	AS SHOWN	SHEET NO.	S2
				PROJECT NAME EL DORADO CHEMICAL COMPANY UNION COUNTY, ARKANSAS			
DRAWN BY FILE DOWNSTREAM MONITORING LOCATION TOPOGRAPHIC MAP				DATE PLOTTED 05/25/2018			
DESIGNED BY	SKH	CHECKED BY	SKH	DATE	05/25/2018	BY	CK
DRAWN BY	ALB	CHECKED BY	ALB	DATE	05/25/2018	BY	CK
REVISION		DATE					

**Attachment 3**

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**Outfalls 006 and 007  
Instream Level Logger  
Photographs**

Photos #1 and #2: Level Logger at time of installation - March 07, 2018



Photo #3 and #4: Back-up Level Logger and Staff Gauge at time of installation - May 02, 2018



**From:** [Young, Michael](#)  
**To:** [McConnell, Melissa](#)  
**Subject:** FW: Response to Compliance Evaluation  
**Date:** Tuesday, October 30, 2018 11:14:08 AM  
**Attachments:** [Flow Chart for Instantaneous - Final.pdf](#)  
[Rating Curve Flows & Bottom Profiles - Final.pdf](#)  
[Rating Curve and Data - Final.pdf](#)

---

Melissa,

Would you please attach this to WID 24737?

Thank you,

Michael Young  
District 8 Inspector  
El Dorado Field Office  
ADEQ Office of Water Quality  
Cell Phone: 501-837-2073  
[youngm@adeq.state.ar.us](mailto:youngm@adeq.state.ar.us)

---

**From:** David Sartain [mailto:[DSartain@edc-ark.com](mailto:DSartain@edc-ark.com)]  
**Sent:** Tuesday, October 16, 2018 4:06 PM  
**To:** Young, Michael  
**Subject:** RE: Response to Compliance Evaluation

Michael,

Please find attached the information that you requested. Please let me know if you need any additional information.

- Rating Curve and Data used to develop it
- Flow measurements and cross-section bottom profiles for every measurement used to develop the curve.
- Chart for the staff gage stage measurements. Developed from the rating curve.

---

**From:** Young, Michael <[youngm@adeq.state.ar.us](mailto:youngm@adeq.state.ar.us)>  
**Sent:** Wednesday, October 3, 2018 2:53 PM  
**To:** David Sartain <[DSartain@edc-ark.com](mailto:DSartain@edc-ark.com)>  
**Subject:** RE: Response to Compliance Evaluation

David,

Can you (or GBMc) supply a cross-section of the location for downstream 006/007 flow monitoring?



Also, is the data used to construct the rating curve available? Is there a chart for the stage measurement from the staff gage that would give me an instantaneous MGD measurement?

I will most likely be passing this information to permits branch for any feedback they can provide.

Thank you,

Michael Young  
District 8 Inspector  
El Dorado Field Office  
ADEQ Office of Water Quality  
Cell Phone: 501-837-2073  
[youngm@adeq.state.ar.us](mailto:youngm@adeq.state.ar.us)

---

**From:** David Sartain [<mailto:DSartain@edc-ark.com>]  
**Sent:** Wednesday, October 03, 2018 1:27 PM  
**To:** Young, Michael  
**Cc:** Delmar Reppond; John Carver  
**Subject:** Response to Compliance Evaluation

Mr. Young,

Please see attached letter in response to your Compliance Evaluation Inspection Report. If you have any questions or need any additional information, please give me a call.

Thank You

**David Sartain**

Environmental Coordinator / Lead  
El Dorado Chemical Company  
4500 North West Ave.  
El Dorado, Arkansas 71730  
Office: 870-863-1403  
Cell: 870-312-1397

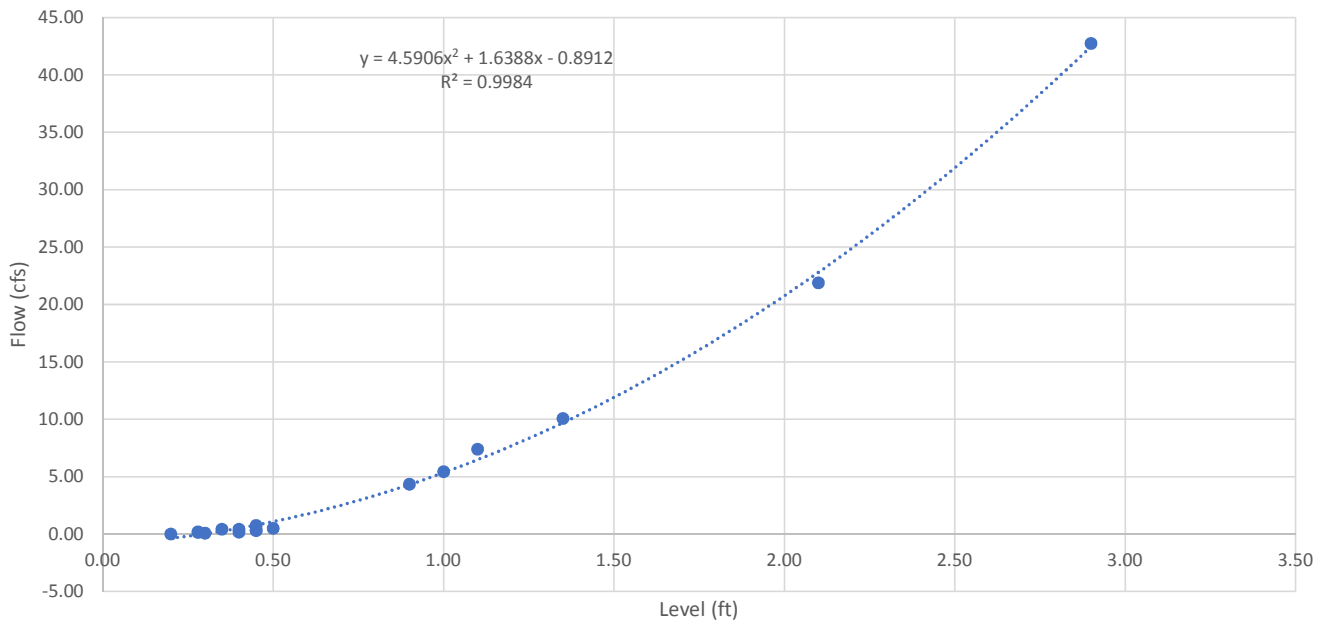
**EDCC Stream Flow Chart**

<b>Gage (ft)</b>	<b>Flow (cfs)</b>
0	0.00
0.1	0.00
0.2	0.00
0.3	0.01
0.4	0.50
0.5	1.08
0.6	1.74
0.7	2.51
0.8	3.36
0.9	4.30
1	5.34
1.1	6.47
1.2	7.69
1.3	9.00
1.4	10.40
1.5	11.90
1.6	13.48
1.7	15.16
1.8	16.93
1.9	18.79
2	20.75
2.1	22.79
2.2	24.93
2.3	27.16
2.4	29.48
2.5	31.90
2.6	34.40
2.7	37.00
2.8	39.69
2.9	42.47
3	45.34
3.1	48.30
3.2	51.36
3.3	54.51
3.4	57.75
3.5	61.08
3.6	64.50
3.7	68.02
3.8	71.62
3.9	75.32
4	79.11

**EDCC Stream**

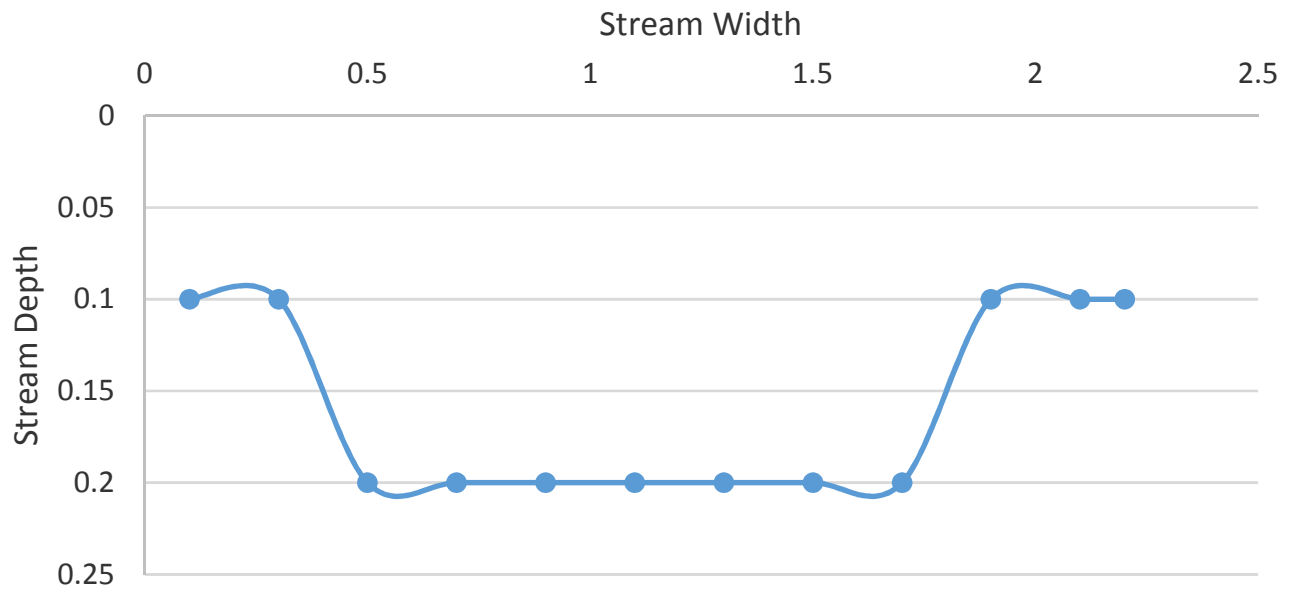
<b>Date</b>	<b>Time</b>	<b>Depth (ft)</b>	<b>Flow (cfs)</b>
6/28/2017	1533	0.20	0.00
8/30/2017	1335	0.30	0.08
1/23/2018	1230	0.50	0.50
1/24/2018	1350	0.40	0.17
2/7/2018	0900	1.35	10.06
2/7/2018	1045	1.10	7.40
2/7/2018	1215	1.00	5.44
2/7/2018	1400	0.90	4.34
02/12/18	1559	0.45	0.75
02/13/18	855	0.4	0.43
02/13/18	1630	0.35	0.42
02/20/18	1315	0.45	0.33
02/20/18	1525	0.45	0.30
02/21/18	915	2.1	21.89
02/21/18	1130	2.9	42.75
03/07/18	0930	0.28	0.15
03/07/18	1230	0.28	0.18

EDCC-B - Curve



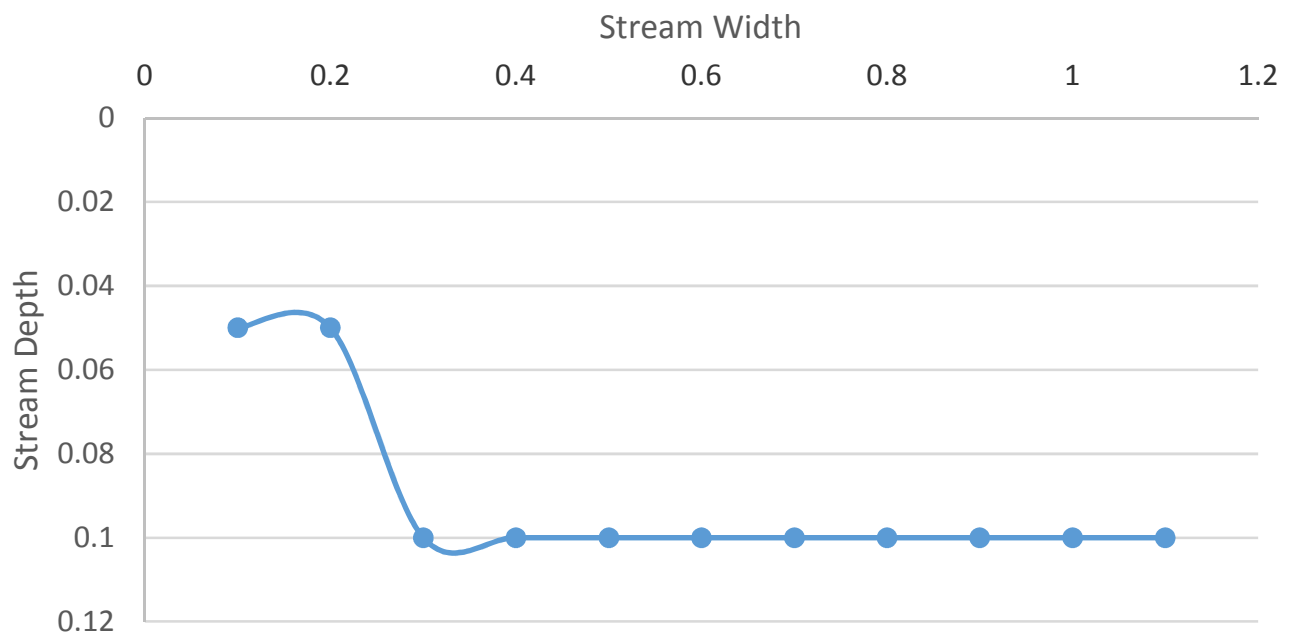


# Stream Bottom Profile





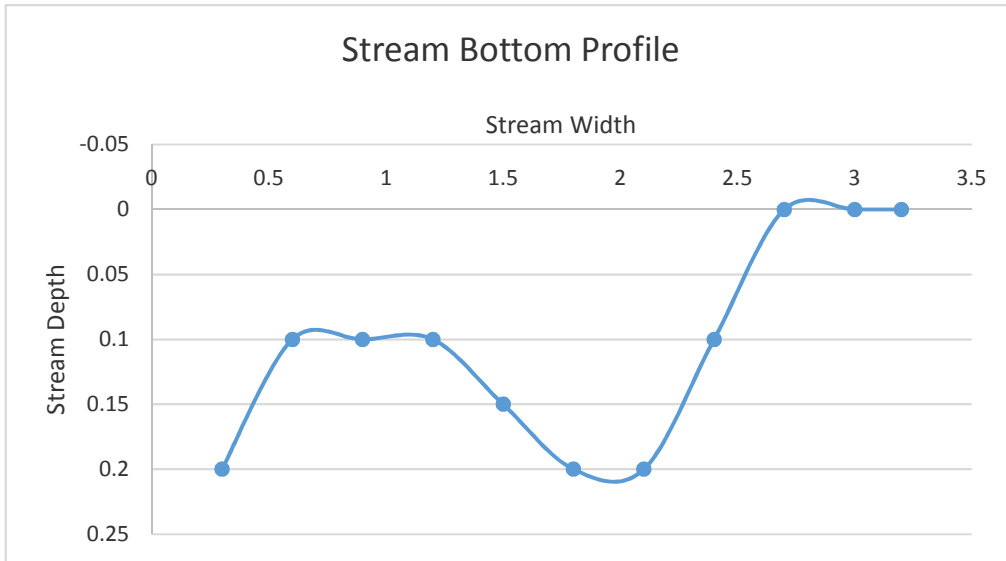
# Stream Bottom Profile





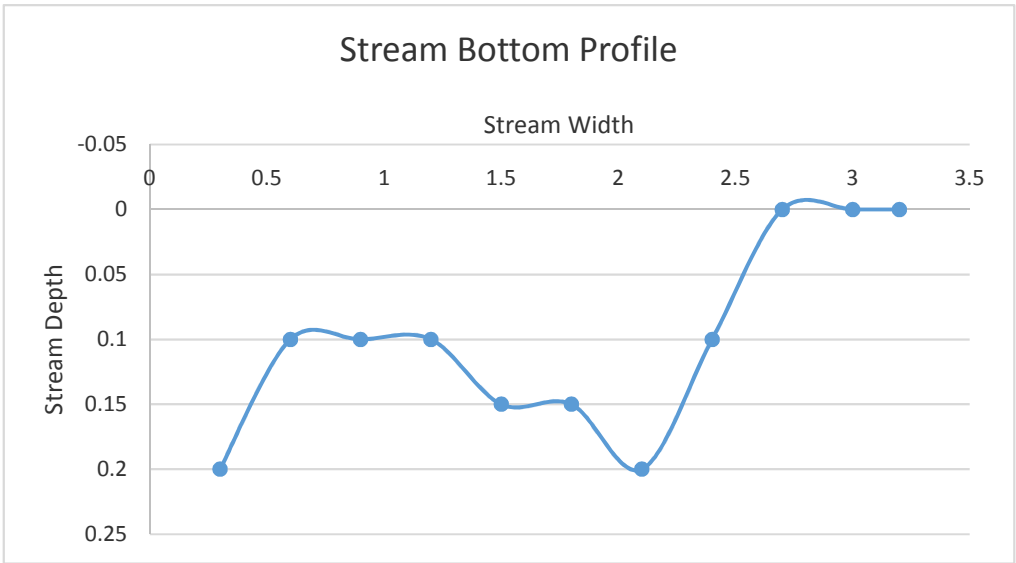


### Stream Bottom Profile



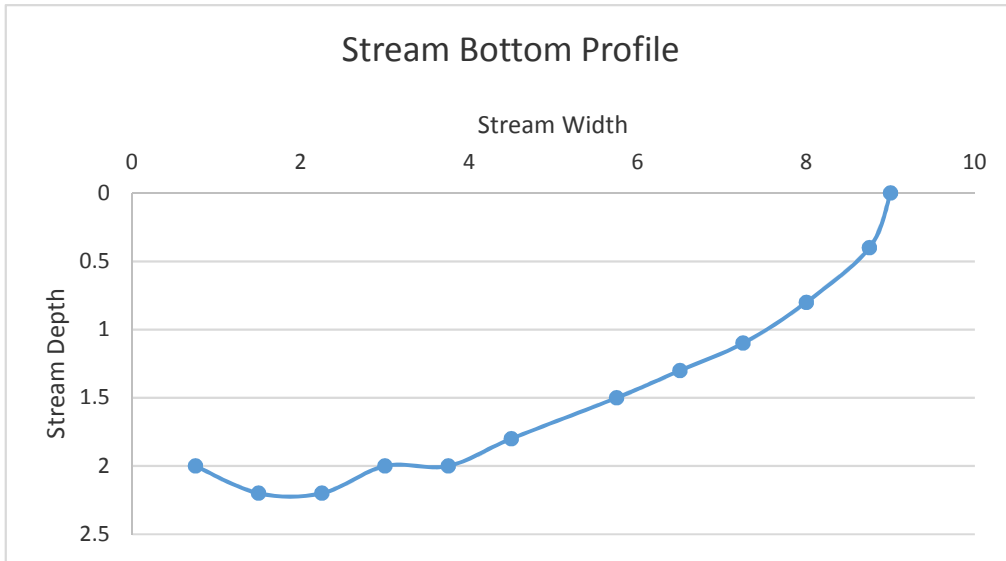


### Stream Bottom Profile

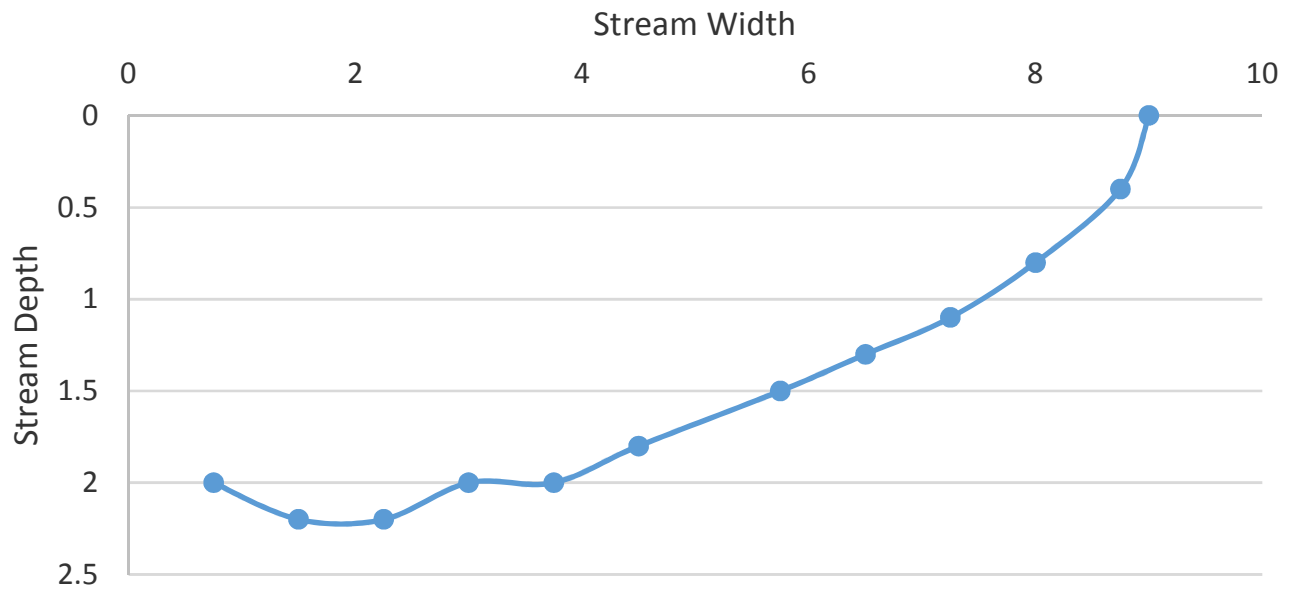




### Stream Bottom Profile



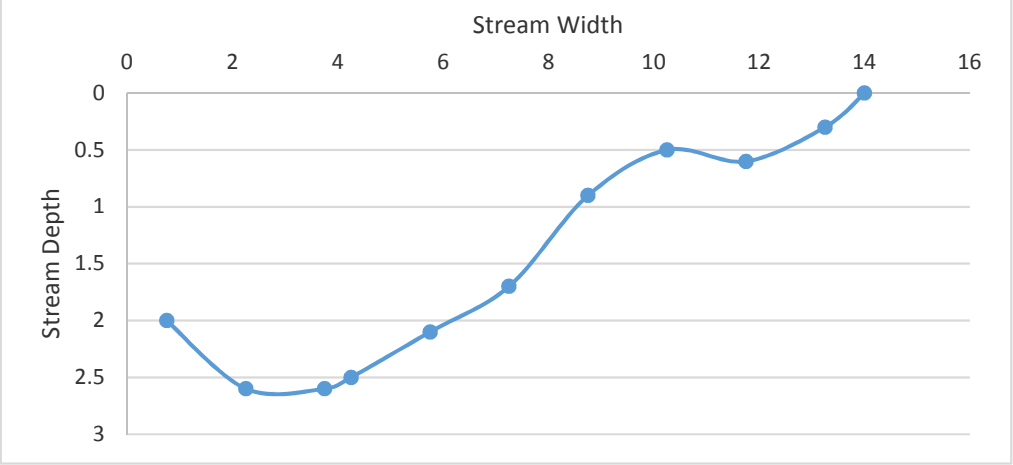
# Stream Bottom Profile



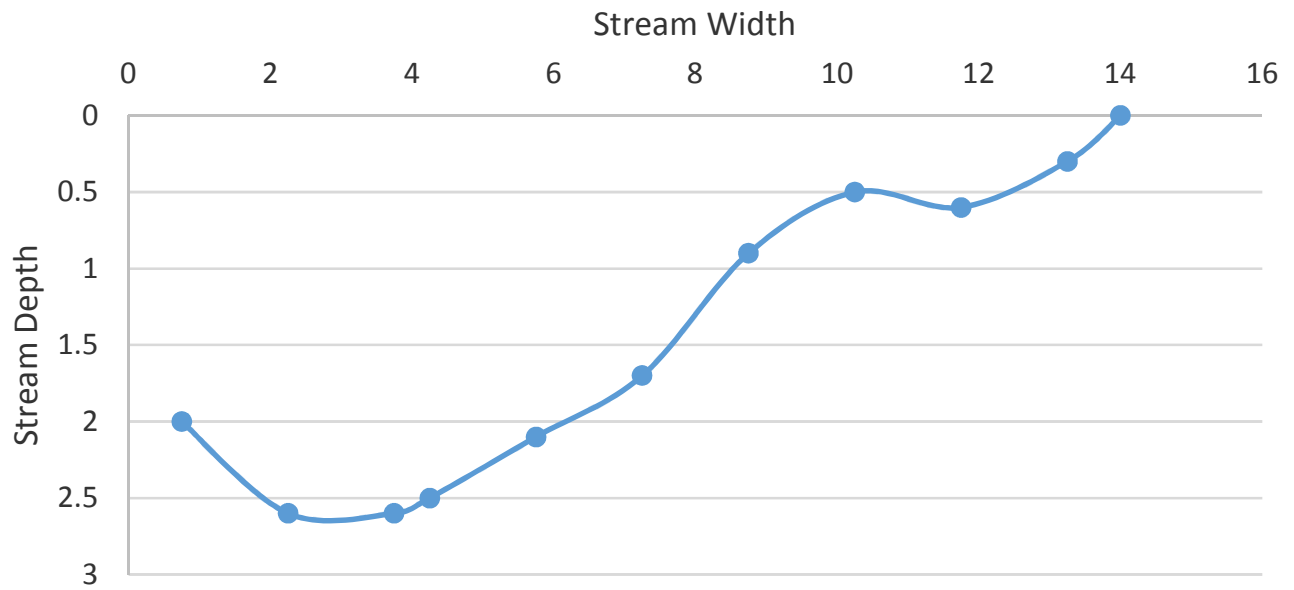




### Stream Bottom Profile



# Stream Bottom Profile



Project 2042-99-010

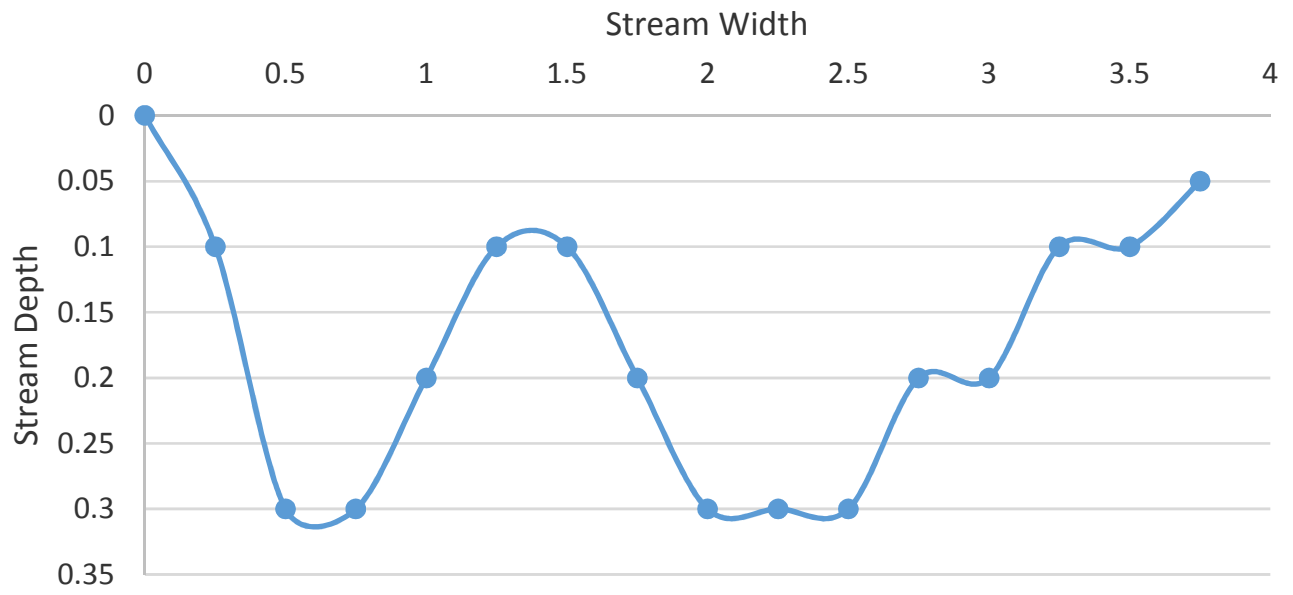
date 2/20/2018

time 1315

<b>Station: EDCC Stream</b>			
Waterbody			
Crew: ZDW			
Width (ft):	4	Area: 0.8125	Velocity: 0.31
Flow (cfs):	0.33	Method: 0.6	Max Vel: 0.77
Water Depth to Probe (ft)	0.45	Min Vel:	0

Distance from initial point (ft)	Width (ft)	Depth (ft)	Avg. velocity at point (ft/sec)	Area (sq. ft.)	Discharge (cfs)
0.25	0.25	0.1	0.11	0.025	0.00275
0.5	0.25	0.3	0.69	0.075	0.05175
0.75	0.25	0.3	0.56	0.075	0.042
1	0.25	0.3	0.41	0.075	0.03075
1.25	0.25	0.2	0.32	0.05	0.016
1.5	0.25	0.2	0.47	0.05	0.0235
1.75	0.25	0.2	0.68	0.05	0.034
2	0.25	0.3	0.77	0.075	0.05775
2.25	0.25	0.3	0.64	0.075	0.048
2.5	0.25	0.3	0.28	0.075	0.021
2.75	0.25	0.2	0	0.05	0
3	0.25	0.2	0	0.05	0
3.25	0.25	0.1	0	0.025	0
3.5	0.25	0.1	0	0.025	0
3.75	0.25	0.1	0	0.025	0
4	0.25	0.05	0	0.0125	0
total	4	3.25	4.93	0.8125	0.33
average	0.25	0.20	0.31	0.05	0.02

# Stream Bottom Profile



Project 2042-99-010

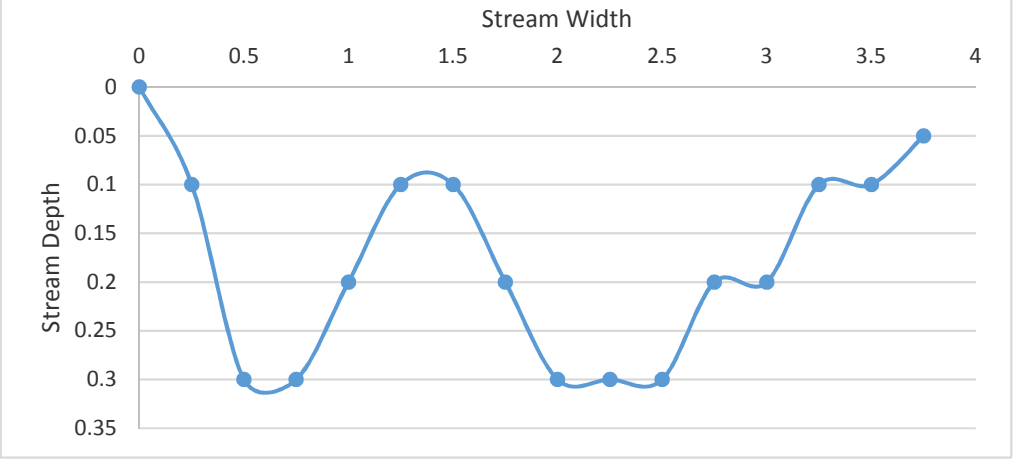
date 2/20/2018

time 1525

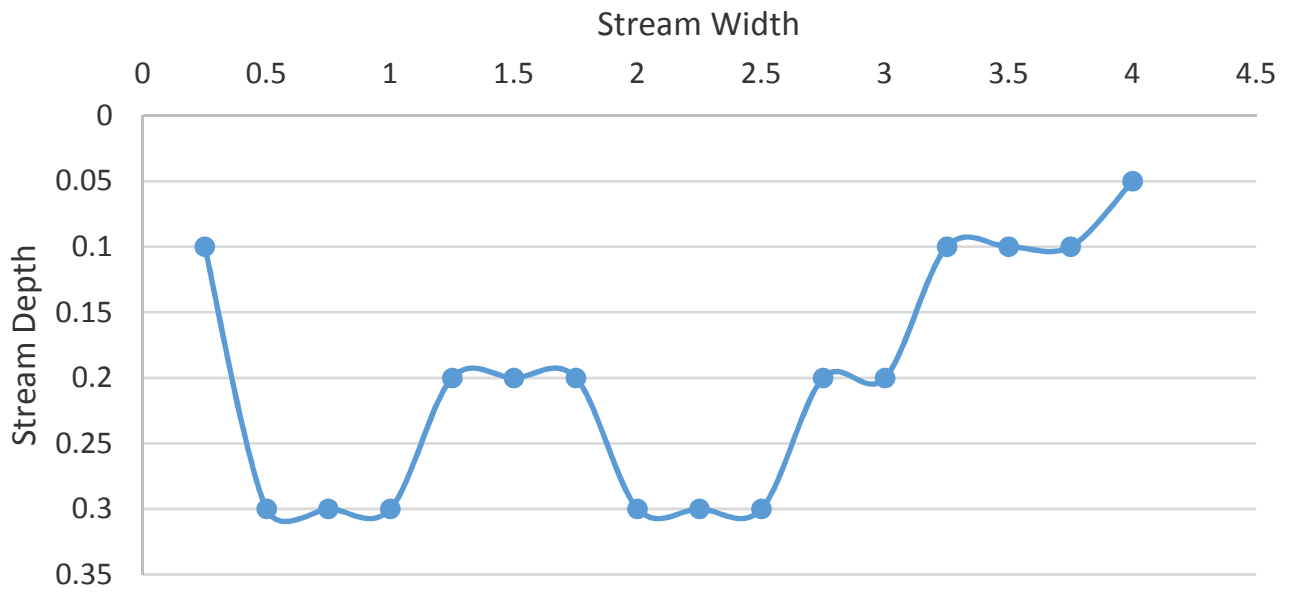
<b>Station: EDCC Stream</b>			
Waterbody			
Crew: ZDW			
Width (ft):	3.75	Area: 0.7125	Velocity: 0.35
Flow (cfs):	0.30	Method: 0.6	Max Vel: 0.72
Water Depth to Probe (ft)		0.45	Min Vel: 0

Distance from initial point (ft)	Width (ft)	Depth (ft)	Avg. velocity at point (ft/sec)	Area (sq. ft.)	Discharge (cfs)
0	0	0			
0.25	0.25	0.1	0.08	0.025	0.002
0.5	0.25	0.3	0.33	0.075	0.02475
0.75	0.25	0.3	0.72	0.075	0.054
1	0.25	0.2	0.47	0.05	0.0235
1.25	0.25	0.1	0.56	0.025	0.014
1.5	0.25	0.1	0.54	0.025	0.0135
1.75	0.25	0.2	0.66	0.05	0.033
2	0.25	0.3	0.71	0.075	0.05325
2.25	0.25	0.3	0.71	0.075	0.05325
2.5	0.25	0.3	0.4	0.075	0.03
2.75	0.25	0.2	0.04	0.05	0.002
3	0.25	0.2	0	0.05	0
3.25	0.25	0.1	0	0.025	0
3.5	0.25	0.1	0	0.025	0
3.75	0.25	0.05	0	0.0125	0
total	3.75	2.85	5.22	0.7125	0.30
average	0.23	0.18	0.35	0.05	0.02

### Stream Bottom Profile



# Stream Bottom Profile



Project 2042-99-010

date 2/13/2018

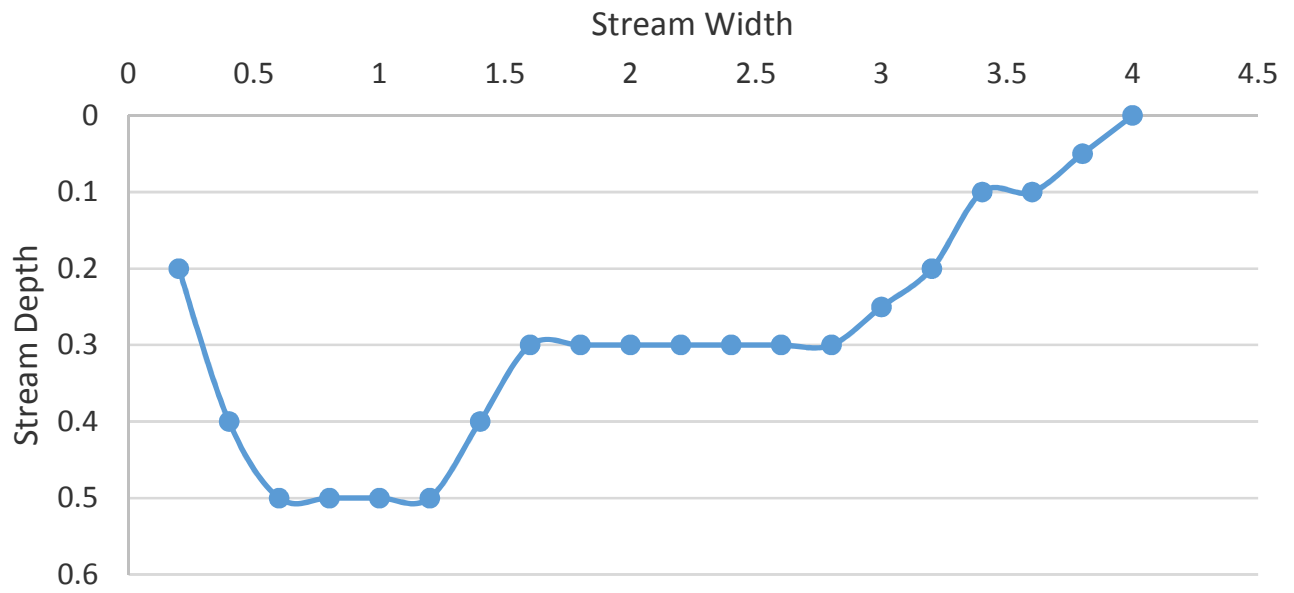
time 0855

<b>Station: EDCC Stream</b>					
Waterbody					
Crew: RJS/ZDW					
Width (ft):	4	Area:	1.16	Velocity:	0.36
Flow (cfs):	0.43330	Method:	0.6	Max Vel:	0.67
Water Depth to Probe (ft)			0.4	Min Vel:	0

Distance from initial point (ft)	Width (ft)	Depth (ft)	Avg. velocity at point (ft/sec)	Area (sq. ft.)	Discharge (cfs)
0.2	0.2	0.2	0	0.04	0
0.4	0.2	0.4	0	0.08	0
0.6	0.2	0.5	0.09	0.1	0.009
0.8	0.2	0.5	0.23	0.1	0.023
1	0.2	0.5	0.09	0.1	0.009
1.2	0.2	0.5	0.59	0.1	0.059
1.4	0.2	0.4	0.51	0.08	0.0408
1.6	0.2	0.3	0.53	0.06	0.0318
1.8	0.2	0.3	0.43	0.06	0.0258
2	0.2	0.3	0.56	0.06	0.0336
2.2	0.2	0.3	0.58	0.06	0.0348
2.4	0.2	0.3	0.66	0.06	0.0396
2.6	0.2	0.3	0.67	0.06	0.0402
2.8	0.2	0.3	0.58	0.06	0.0348
3	0.2	0.25	0.55	0.05	0.0275
3.2	0.2	0.2	0.39	0.04	0.0156
3.4	0.2	0.1	0.23	0.02	0.0046
3.6	0.2	0.1	0.21	0.02	0.0042
3.8	0.2	0.05	0	0.01	0
4	0.2	0		0	
total	4	5.8	6.9	1.16	0.43
average	0.20	0.29	0.36	0.06	0.02

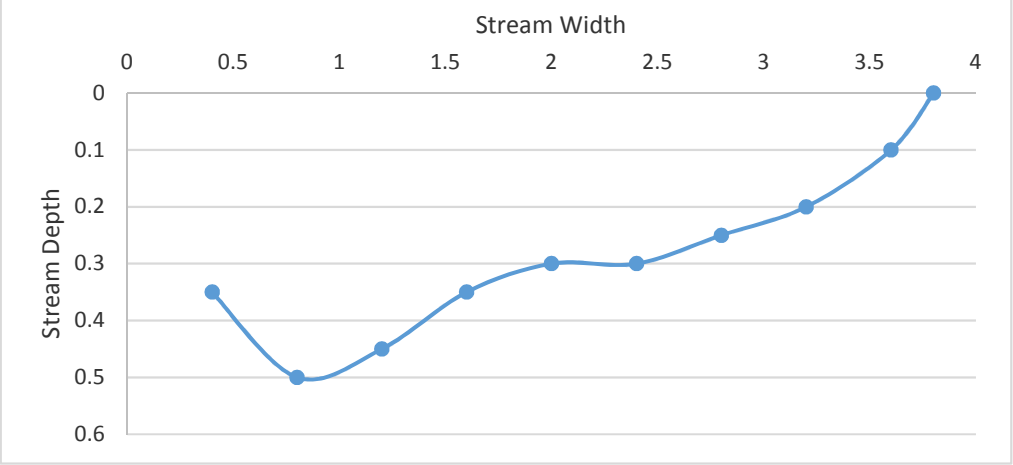


# Stream Bottom Profile

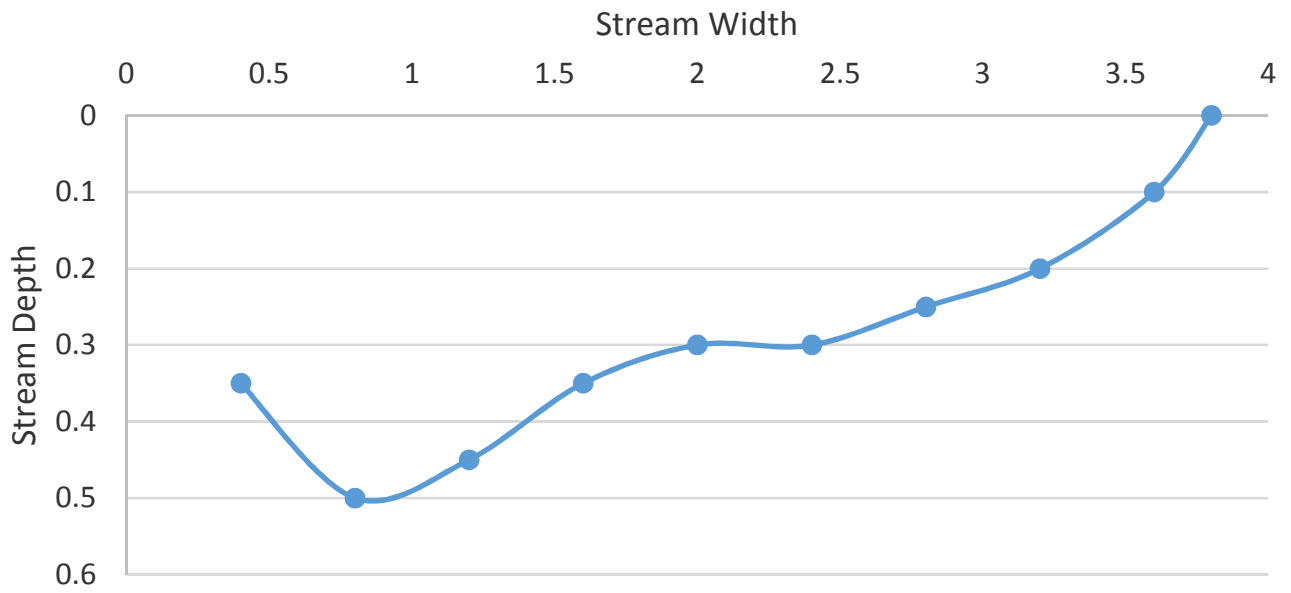




### Stream Bottom Profile

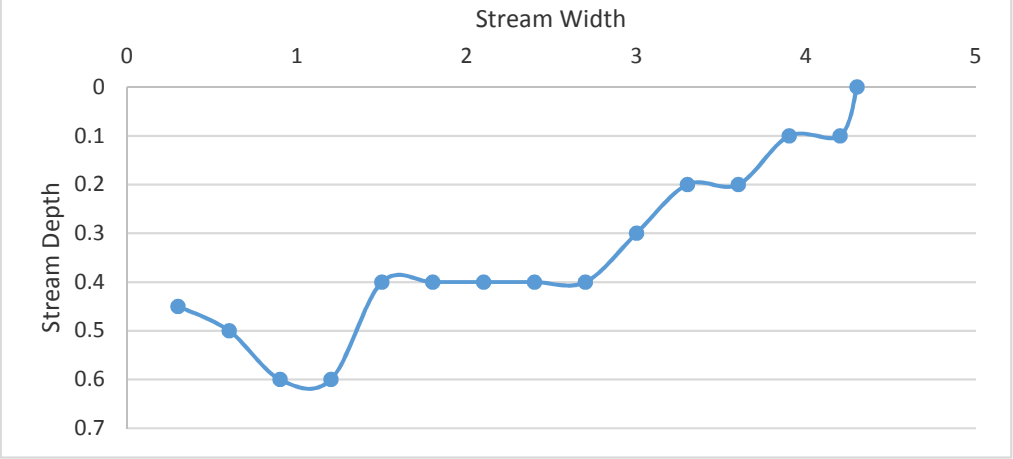


# Stream Bottom Profile



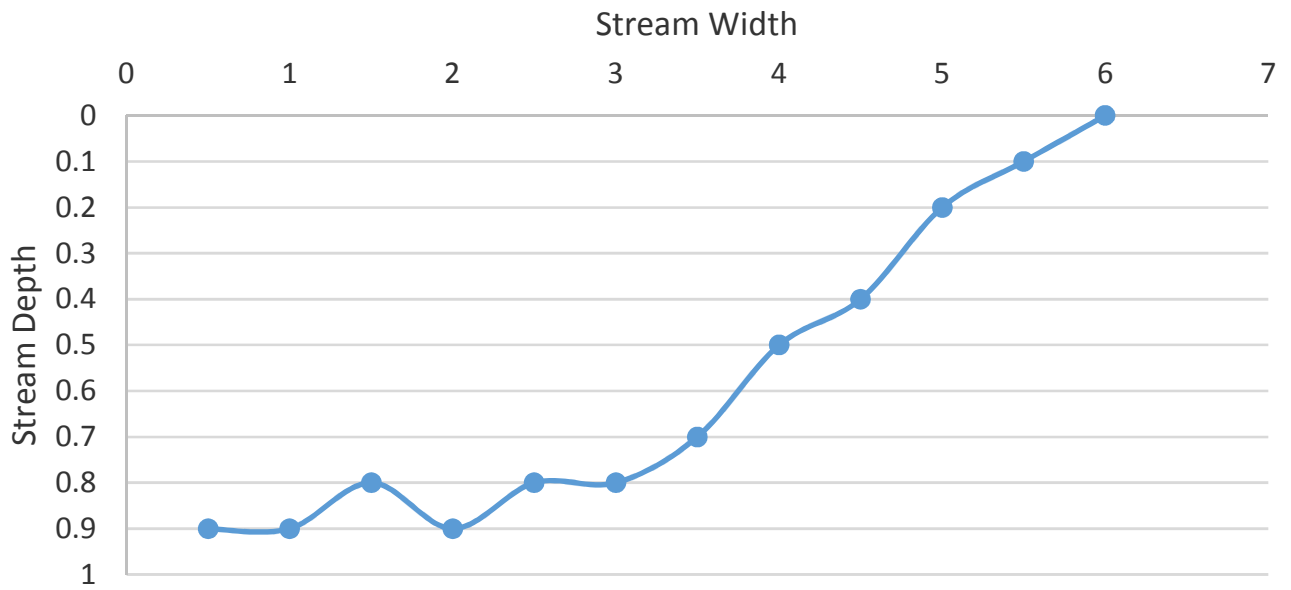


### Stream Bottom Profile





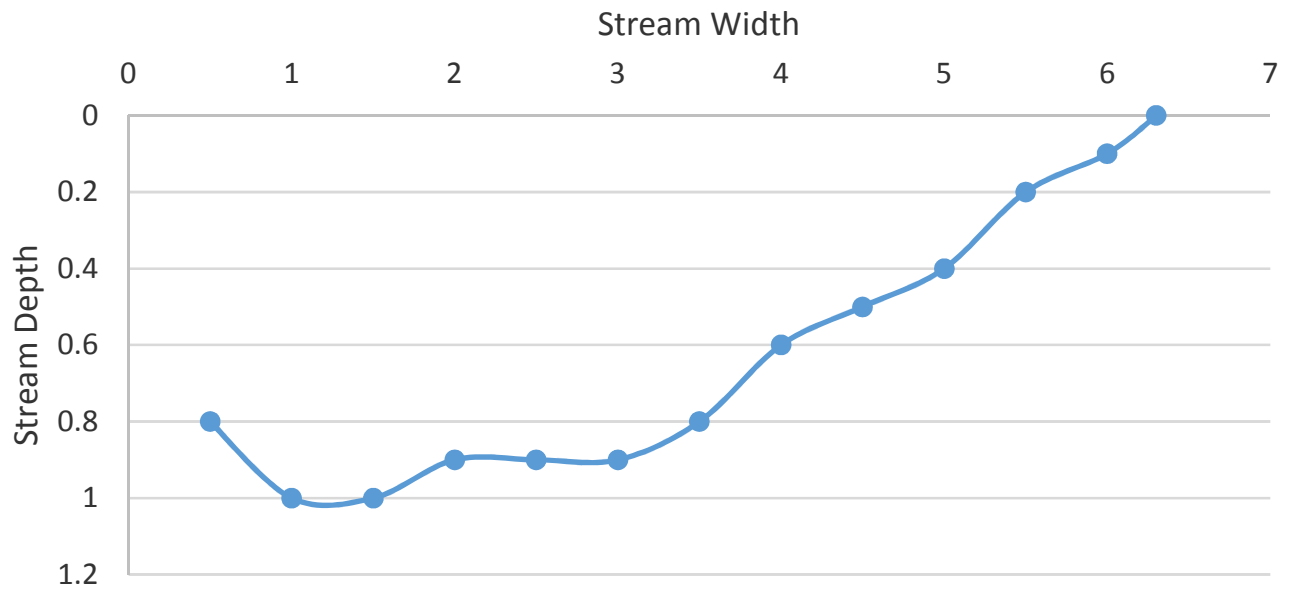
# Stream Bottom Profile





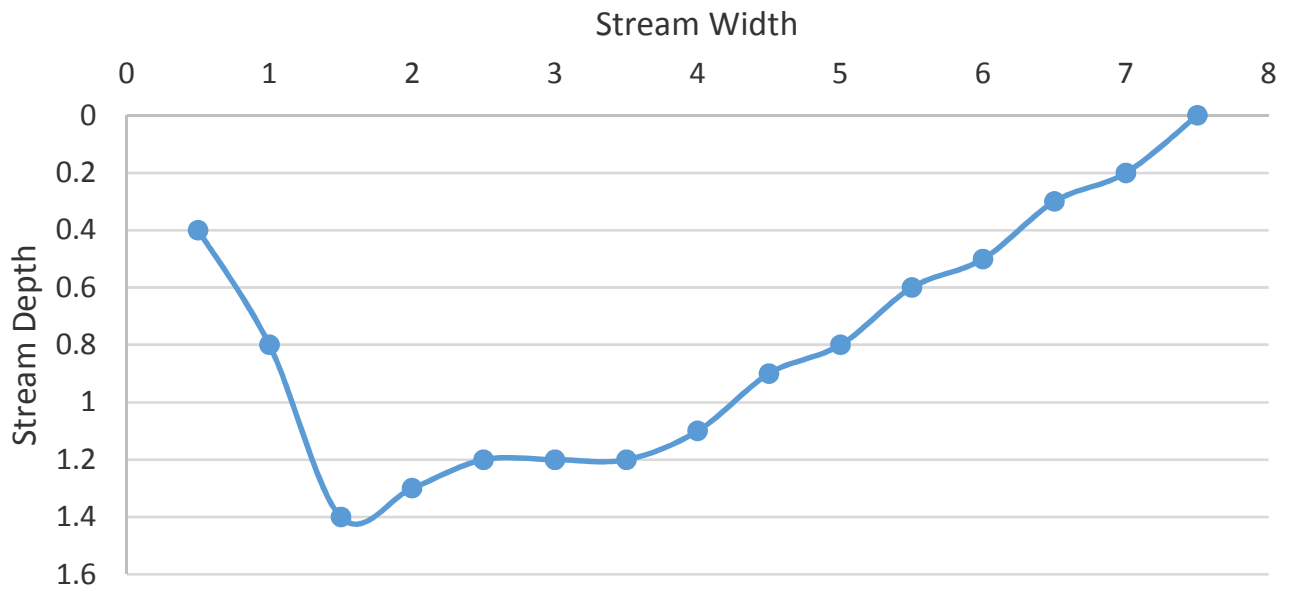


# Stream Bottom Profile



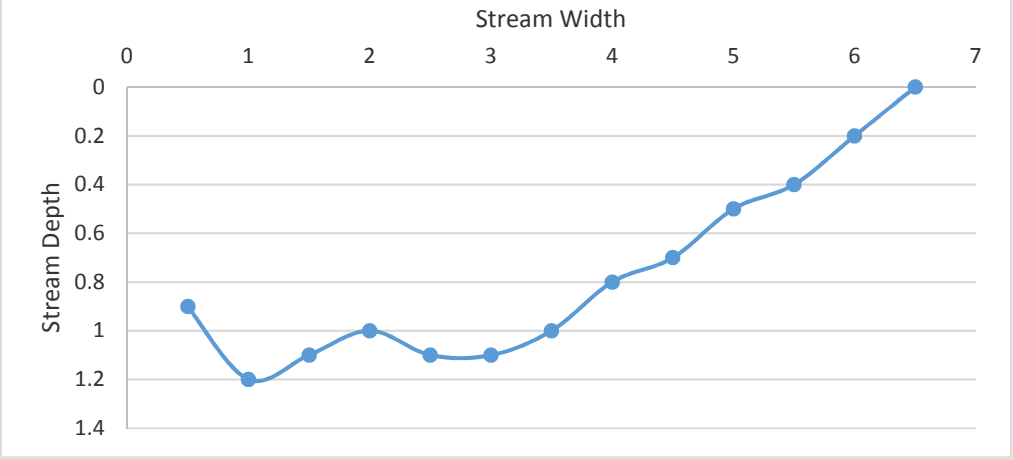


# Stream Bottom Profile

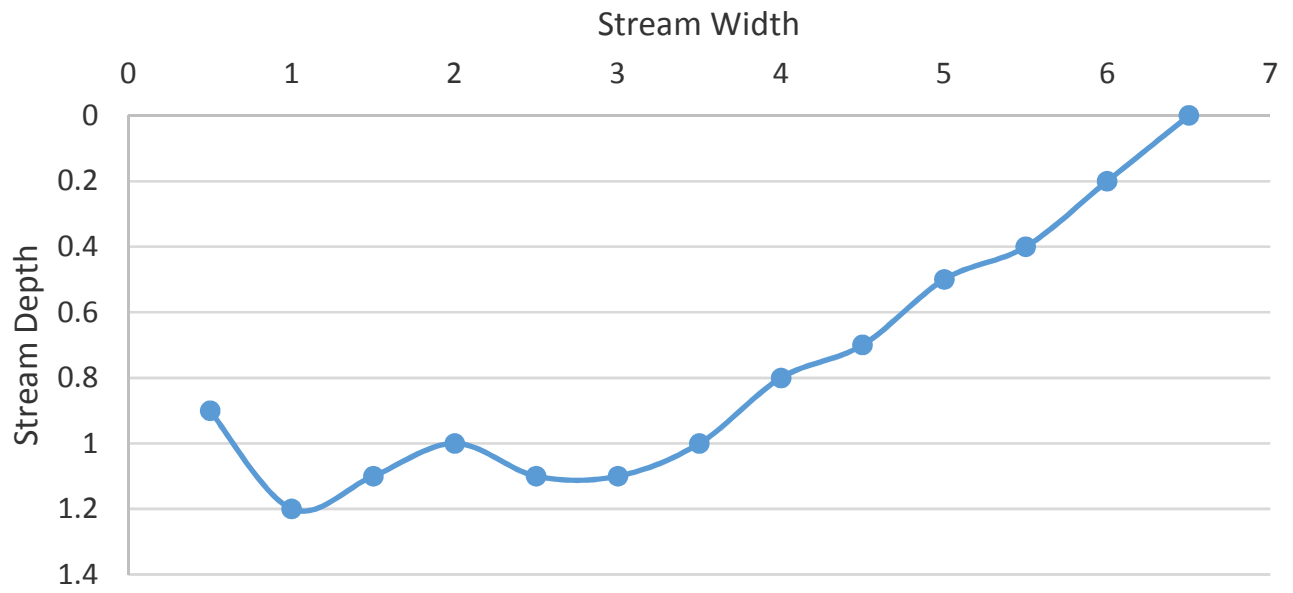




### Stream Bottom Profile



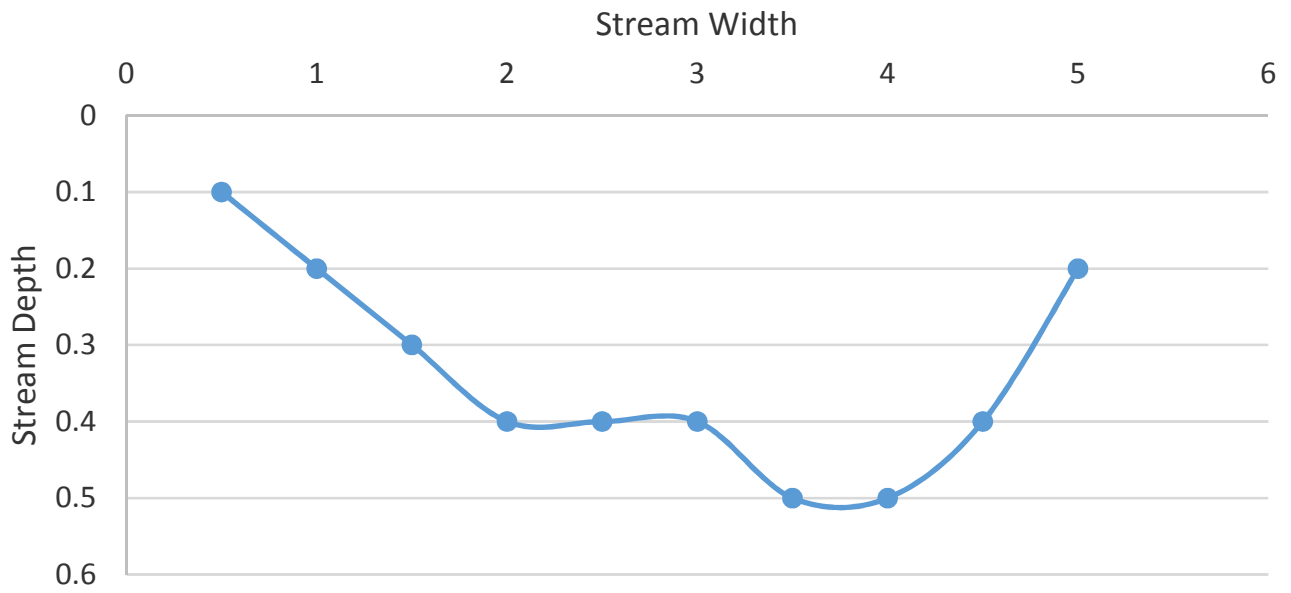
# Stream Bottom Profile





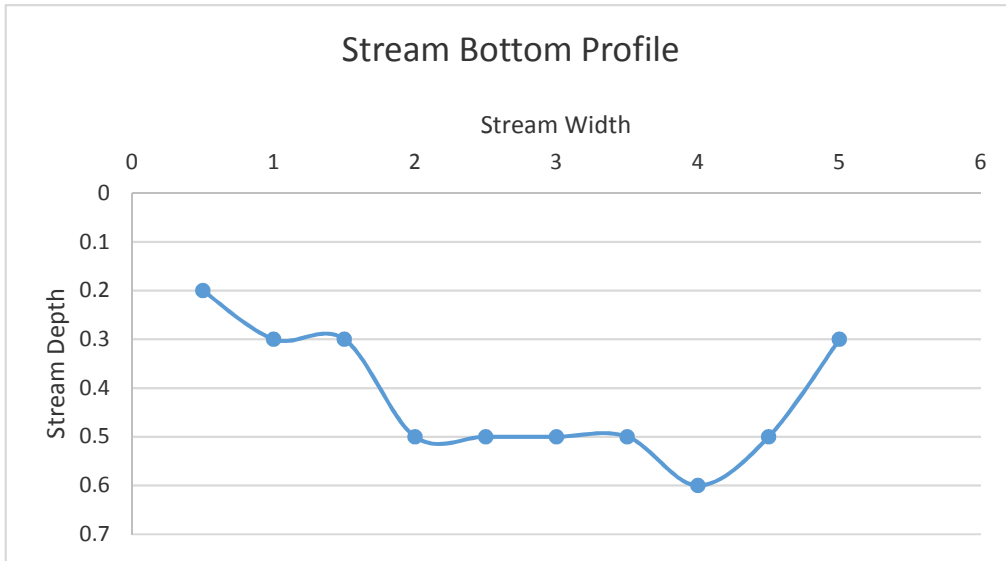


# Stream Bottom Profile

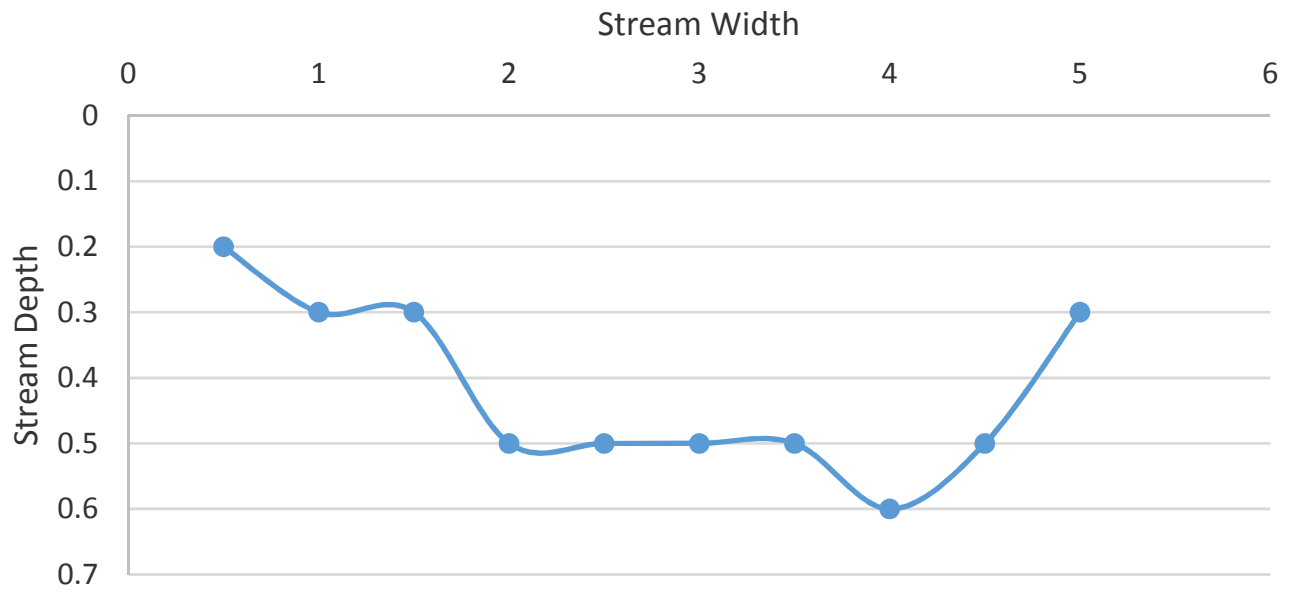




### Stream Bottom Profile



# Stream Bottom Profile



# ADEQ

ARKANSAS  
Department of Environmental Quality

December 6, 2018

Delmar R. Reppond, General Manager  
El Dorado Chemical Company  
4500 North West Avenue  
El Dorado, AR 71730

**RE: El Dorado Chemical Co - Response to Inspection (Union Co)**  
**AFIN: 70-00040 NPDES Permit No.: AR0000752**

Dear Mr. Reppond:

I have reviewed the response pertaining to my August 8, 2018 inspection of El Dorado Chemical Company (EDCC). The information provided sufficiently addresses the violations referenced in my inspection report. At this time, the Department has no further comment concerning this particular inspection. Acceptance of this response by the Department does not preclude any future enforcement action deemed necessary at this site or any other site.

If we need further information concerning this matter, we will contact you. Thank you for your attention to this matter. Should you have any questions, feel free to contact me at (501) 837-2073 or you may e-mail me at [youngm@adeq.state.ar.us](mailto:youngm@adeq.state.ar.us).

Sincerely,



Michael Young  
District 8 Field Inspector  
Office of Water Quality