



Department of Environmental Quality

May 15, 2006

Mr. Greg Withrow, General Manager El Dorado Chemical Corporation P.O. Box 231 El Dorado, AR 71731

NPDES Permit No. AR0000752

Dear Mr. Withrow:

On April 25 and 26, 2006, I performed an NPDES compliance sampling inspection of the EDCC Facility in conjunction with a multimedia inspection conducted with the Air, Hazardous Waste and Water Divisions of the ADEQ. The NPDES portion of this inspection 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. The NPDES portion of the multimedia inspection revealed the following:

- The DMR data for dissolved oxygen for January 2006 was not consistent with the actual instantaneous minimum performed by the facility. The facility reported a monthly average of 8.78 mg/L instead of actual instantaneous minimum of 8.0 mg/L.
- The Storm Water Pollution Prevention Plan (SWPPP) needs to be updated to show the current plant staff.
- 3. The SWPPP needs to be certified by the current General Manager.
- The SWPPP needs to be updated to show the moving and addition of diesel fuel tanks by the railroad into the plant.
- 5. The Annual Comprehensive Site Compliance Evaluation was not performed during 2005. The last Evaluation was performed in December 2004.

. S COMPLIANCE FILE NPDES# プケス DMR'S

May 15, 2006 Greg Withrow Page 2

These 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 each item noted. This corrective action should be completed as soon as possible, and the written response is due by June 5, 2006.

If I can be of any assistance, please contact me at 870-862-0680.

Sincerely,

John W. Lamb

Frank Sun

District Field Inspector Water Division

cc: NPDES Branch

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Form Approved OMB No. 2040-0003 Approval Expires 7-31-85

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

NPDES Compliance Inspection Report

L	Section A: National Data System Coding																													
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													Se	ction	B: Fa	cility	Data													
	Name and Location of Facility Inspected (For industrial users discharging to POTW, also nclude POTW name and NPDES permit number) Entry Time /Date 9:42/04/26/06 Permit Effective Date 9:42/04/26/06 1 July 2002																													
El Dorado Chemical Company Northwest Ave EL Dorado, AR Exit Time/Date 12:42/04/26/06											Permit Expiration Date 30 June 2007																			
	Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Other Facility Data																													
	Wes Morgan/ Environmental Manager/(870)-863-1484 David Sartain/ Environmental Tech																													
	Name, Address of Responsible Official/Title/Phone and Fax Number																													
Greg Withrow, General Manager/870-863-1400 EDCC Contacted																														
P.C	. Вох	231,	El Do	rado,	AR 71	731											Yes	L	X	No										
├─	Section C: Areas Evaluated During Inspection																													
	(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)																													
S	S Permit S Flow Measureme					nt	of the State of th						s	Sampling																
M	Re	ecords	/Repo	rts			s		Self-i	Monit	oring	Prog	ram		N	Sludge Handling/Disposal N					N	Pollution Prevention								
s_	Fa	cility	Site R	Leview	,		N	_ ∙	Comp	liance	Sch	edules			N	Pı	etreat	ment	t			ļ	N	Multimedia						
s	Ef	fluent	/Rece	iving	Wate	rs	S]	Labor	ratory					U	Sto	rm W	ater					N	Othe	r:					
								Secti	on D:	Sumi	nary	of Fin	dings	s/Con	nment	s (At	ach ac	lditio	nal s	heets	if nec	essar	y)							
		pection		perf	rmed	in co	njun	ction	with	a mul	timed	lia ins	pectio	n wit	h the	ADE	Q Air,	Wat	er an	d Haz	ardou	s Wa	ste Di	ivision	s. Al	l sam	ples v	vere v	vithin th	ıe
Se	ction	B, ite	m 1: '																				minir	ոստ բ	erfor	med	by the	facil	ity. The	e
			osed items			-	•				•	_				instar	itaneo	us mi	inimu	m (8.	0 mg/	L)								
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Th	e ann	ual C	ompr	ehens	ive Si	te Co	mplia	nce I	Evalu	_						-	e previ					-			embe	r 200	4. Ro	utine		
ins	pecti	ons as	outli	ne in t	he pla	an we	re up	to d	ate.					_																
		and S	Signat amb	ure(s)	of In	spect	or(s)								Telep aod/87		Fax -5941/	870-8	362-35	509				Date	e 15 N	May 2	006			
Sign	atur	e of R	Leview	er								Agency/Office/Phone and Fax Numbers					Date				_									

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Form Approved OMB No. 2040-0003 Approval Expires 7-31-85

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

NPDES Compliance Inspection Report

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	Section A: Nation	nal Data S	ystem Codi	ng	_							
Transaction Code NPDES			yr	/mo/day	<i>'</i> .		Ins	рес. Тур	e In	spector	Fac Type	
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Inspection Work Days Facility Evaluation	n Rating E	31 (QA					Reserve	d			
67 69 70 3	71	N 72	N 73		7	4 75					80	
Section B: Facility Data												
Name and Location of Facility Inspected (For industrial users discharging to POTW, also Entry Time /Date Permit Effective Date												
include POTW name and NPDES permit number) El Dorado Chemical Company			9:30/04/2	25/06				01 Jul	y 2002			
Northwest Ave EL Dorado, AR Exit Time/Date 13:42/04/25/06									it Expirat ine 2007	ion Date		
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Nu	imber(s)	_					Oth	ner Facili	ity Data			
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Wes Morgan/ Environmental Manager/(870)-863-1484 David Sartain/ Environmental Tech												
Name, Address of Responsible Official/Title/Phone and Fax Nun	nber											
Greg Withrow, General Manager/870-863-1400 EDCC				Contac	ted_	_						
P.O. Box 231, El Dorado, AR 71731			Yes _	X No	0							
Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)												
Permit Flow Measuren	nent	Оре	erations & I	Maintei	nance			Sampli	ng			
Records/Reports Self-Monitorin	ng Program	Slu	dge Handli	ng/Disp	osal			Polluti	on Preve	ntion		
Facility Site Review Compliance Sc.	hedules	Pr	etreatment				Y	Multimedia				
Effluent/Receiving Waters Laboratory		Sto	rm Water					Other:	Other:			
Section D: Summar	y of Findings/Comn	nents (Att	Section D: Summary of Findings/Comments (Attach additional sheets if necessary)									
This inspection was performed as part of a multimedia inspection that included the ADEQ Air, Water and Hazardous Waste Divisions. The inspection team consisted of Thomas Hunting, Hazardous Waste Inspector, Tiffany Wooten, Air Inspector, Travis Harmon, Air inspector (Ms. Wooten was the lead inspector for the Air Division, with Mr. Harmon there to assist) and myself (John Lamb, Water Inspector.) The team made entry to the facility at 9:30 am and began the entry interview with Mr. Greg Withrow, General Manager, Mr. Wes Morgan, EDCC Environmental Manager, and David Sartain, Environmental Tech all of EDCC. The team discussed the scope of the multimedia inspection. Each media inspector then proceeded with his or her portion of the inspection. Mr. Harmon and Mr. Hunting toured the facility with Mr. Morgan and I toured the waste water treatment plants and outfalls with Mr. Sartain. At the end of the multimedia inspection an exit interview was performed with the EDCC representatives discussing the findings from each inspector.												
Air Division, with Mr. Harmon there to assist) and myself (J interview with Mr. Greg Withrow, General Manager, Mr. W team discussed the scope of the multimedia inspection. Each toured the facility with Mr. Morgan and I toured the waste v	Ciffany Wooten, Air fohn Lamb, Water I. fohn Eamb, Water I. fes Morgan, EDCC I media inspector the water treatment plan	Inspector, nspector.) Environmen proceedents and ou	, Travis Ha The team ental Mana ed with his itfalls with	r and F rmon, a made e ger, an or ber p	Hazaro Air ins entry t d Dav portion	ous Wa pector o the fa id Sarta o of the	nste Di (Ms. V cility a nin, En inspec	Vooten v it 9:30 a vironme tion. M	vas the le m and be ental Tec r. Harme	ead inspe egan the ch all of E on and M	ctor for the entry DCC. The Ir. Hunting	
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	PERMIT NO. AR0000752
SECTION A - PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS DETAILS:	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. ☐ S ■ M □ DETAILS: see page 1	U NA (FURTHER EXPLANATION ATTACHED <u>Ves</u>)
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	■ YON DNA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	■Y □N □N
c) ANALYTICAL METHODS AND TECHNIQUES.	■Y□N □NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	MY DN DNA
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 □ NE
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA	N. ■Y□N□NA
SECTION C - OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. DETAILS:	U NA (FURTHER EXPLANATION ATTACHED <u>no</u>)
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 ■NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.	□Y□N ■NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	■Y□N □NE

	PERMIT NO. AR0000752
SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)	
9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	□ Y □ N ■ NA □ Y □ N ■ NA □ Y □ N ■ NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	□Y□N ■NA □Y□N ■NA
SECTION D - SELF-MONITORING	
PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS.	ON ATTACHED <u>NO</u>).
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 (FURTH DETAILS:	HER EXPLANATION ATTACHED <u>NO</u>)
PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE	TY ON ONA
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 <u>monthly</u>) RECORDS MAINTAINED OF CALIBRATION PROCEDURES. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	MY ON ONA MY ON ONE MY ON ONA
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.	MY ON ONA
SECTION F - LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. DETAILS: S M U NA (FURTION OF TAXABLE)	HER EXPLANATION ATTACHED <u>no</u>)
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)	TY DN DNA

						PERMIT I	NO. AR0000752		
SECTION F - LABOR	RATORY (CONT'D)								
2. IF ALTERNATIVE	ANALYTICAL PROCE	DURES ARE USED, P	ROPER APPROVAL H.	AS BEEN OBTAINED		■Y_□N	I □ NA		
3. SATISFACTORY C	CALIBRATION AND MA	AINTENANCE OF INST	RUMENTS AND EQUI	PMENT.		■S □M□U	□NA		
4. QUALITY CONTRO	DL PROCEDURES AD	EQUATE				■S □ M□L	JONA		
5. DUPLICATE SAME	PLES ARE ANALYZED	0.10 % OF THE TIME				■Y □ N	□NA		
6. SPIKED SAMPLES	ARE ANALYZED.10	% OF THE TIME.				■Y □ N	I □ NA		
7. COMMERCIAL LABORATORY USED. ■ Y □ N □ NA									
LAB ADDRESS Littl	LAB NAME Arkansas Analytical Labs LAB ADDRESS Little Rock, AR PARAMETERS PERFORMED all permitted parameters but pH and Dissolved Oxygen								
SECTION G - EFFLU	ENT/RECEIVING WAT	TERS OBSERVATION	S.	■S □ M □ U □	NA (FURTHER EXPLAN	IATION ATTACHED_	<u>no</u>).		
Based on visual	observations of	nlv.							
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER		
001	None	None	Slight	None	None	Lt green			
010, 011	Not constructed								
003	None	none	none	none	none	colorless			
002, 004, 005, 006, 007	None	None	Moderate	None	none	Lt brown			
Comments:	•								
SECTION H - SLUDG	E DISPOSAL								
SLUDGE DISPOSAL DETAILS:	MEETS PERMIT REQ	UIREMENTS.			U ■ NA (FURTHER EX	(PLANATION ATTAC	HED <u>no</u>).		
1. SLUDGE MANAGE	MENT ADEQUATE TO	O MAINTAIN EFFLUEN	IT QUALITY.			□Ѕ□М□∪	■ NA		
2. SLUDGE RECORD	S MAINTAINED AS R	EQUIRED BY 40 CFR	503.			□S □ M □ U	■NA		
3. FOR LAND APPLIE	D SLUDGE, TYPE OF	LAND APPLIED TO:	(e.g., FOREST, AGR	ICULTURAL, PUBLIC C	ONTACT SITE)				
SECTION I - SAMPLIN	NG INSPECTION PRO	OCEDURES		(FURTHER EXPL	ANATION ATTACHED_yes).see page 1 and	d attacments		
1. SAMPLES OBTAIN	ED THIS INSPECTION	N.				■ Y□N	□NA		
2. TYPE OF SAMPLE	OBTAINED								
GRAB X	COMPOSITE SAMPL	_E _X ME	THOD_Auto sampler	FREQUENCY_	1/hr for 24 hours		_		
3. SAMPLES PRESER	RVED.					■Y □ N	□ NA		
4. FLOW PROPORTIO	NED SAMPLES OBT	AINED.				■Y□N	□ NA		
5. SAMPLE OBTAINED	FROM FACILITY'S	SAMPLING DEVICE.				■Y□N	□ NA		
6. SAMPLE REPRESE	NTATIVE OF VOLUM	IE AND NATURE OF D	ISCHARGE.			■Y□N	□NA		
7. SAMPLE SPLIT WIT	H PERMITTEE.	_				□Y■N	□ NA		
8. CHAIN-OF-CUSTOD	Y PROCEDURES EN	MPLOYED.				■Y□N	□ NA		
9. SAMPLES COLLEC	TED IN ACCORDANC	E WITH PERMIT.		,		■Y□N	□NA		

DMR Calculation Check

Reporting Period:	From	_2006_	<u>January</u>	_01	To	2006	<u>January</u>	_31
		Year	Month	Day		Year	Month	Day

Parameter Checked: <u>Dissolved Oxygen Outfall 001</u>

	Loading		Concentration		
	Mass Monthly Avg. (lbs/ day)	Monthly AvgMg/l	Instantaneo	ıs Minimum	
Reported Value:			8.78	mg/L	
Calculated Value:			8.0	mg/L	
Permit Value:			5.0	mg/L	

If calculated value does not equal reported value, explain: Not equal. The facility reported an 8.78 for the instantaneous minimum for dissolved oxygen which was the monthly average for dissolved oxygen, not the true minimum. Other months were reviewed with this being the only month that this occurred. The staff transposed the wrong number. No parameter violation occurred.

FLOW CALCULATION SHEET

Field Data: Date 26 April 2006 Time 10:22
Head in Inches $3.75 = 0.31$ ft.
Type & Size of Primary Flow Measurement Device 12" parshall flume
Name & Model of Secondary Flow Measurement Device <u>Isco 3010</u>
Recorded Flow at date & time listed above 0.438
Flows are calculated from flow charts taken from the <u>ISCO Open Channel Flow Measurement Handbook</u>
Flows are calculated from flow charts taken from the <u>ISCO Open Channel Flow Measurement Handbook</u>
Flows are calculated from flow charts taken from the ISCO Open Channel Flow Measurement Handbook

% error = 1.20 less than 10% is acceptable

- CERTIFICATE OF ANALYSIS -

Attn: Phone: Ext: FAX:

Our Lab#: 2006-0982

Your Sample ID: El Dorado Chemical 001

Sample Type: Report Date: 08-May-06

Samp	le Type:		Report Date:	08-May-06	
NH3-N-ISE					
	Ammonia as nitrogen		3.67	mg/L	5/8/2006
ICP/MS-T					51410000
	Aluminum		220	µg/L 	5/1/2006
	Antimony	<	10.0	µg/L	5/1/2006
	Arsenic	<	2.50	μg/L	5/1/2006
	Barium		34.7	µg/L	5/1/2006
	Beryllium	<	0.50	µg/L	5/1/2006
	Boron		77.2	µg/L	5/1/2006
	Cadmium	<	1.00	μg/L	5/1/2006
	Calcium		15.7	mg/L	5/1/2006
	Chromium		1.16	μg/L	5/1/2006
	Cobalt	<	2.50	μg/L	5/1/2006
	Copper		6.17	μg/L	5/1/2006
	Iron		131	μg/L	5/1/2006
	Lead	<	1.00	μg/L	5/1/2006
	Magnesium		7.81	mg/L	5/1/2006
	Manganese		32.5	μg/L	5/1/2006
	Nickel		6.54	µg/L	5/1/2006
	Potassium		5.95	mg/L	5/1/2006
	Selenium	<	5.00	μg/L	5/1/2006
	Silicon Dioxide		7.58	mg/L	5/1/2006
	Silver	<	5.00	μg/L	5/1/2006
	Sodium		126	mg/L	5/1/2006
	Thallium	<	2.50	μg/L	5/1/2006

Page 1 of 2

CERTIFICATE OF ANALYSIS -

Attn: Phone: Ext:

FAX:

Our Lab#: 2006-0982

Your Sample ID: El Dorado Chemical 001

Samp	ole Type:	Report Date: 08-May-06				
	Vanadium	12.3	μg/L	5/1/2006		
	Zinc	41.9	μg/L	5/1/2006		
TSS/TDS						
	Total suspended solids	10.0	mg/L	4/26/2006		
	Total dissolved solids	502	mg/L	4/26/2006		
Anions						
	Bromide	5.18	mg/L	4/26/2006		
	Fluoride	0.34	mg/L	4/26/2006		
	Chloride	43.2	mg/L	4/26/2006		
	Sulfate	81.8	mg/L	4/26/2006		
NH3/PO4/NO3	3					
	Nitrite+Nitrate-N	32.7	mg/L	4/27/2006		

Mass loading calculations

Parameter	Concentrati	on (m	g/L) X Flow	(mgd) $X 8.34 = lbs/day$	Permitted limit
NH3-N	3.34	х	0.3525	X 8.34 = 9.82	811.84 lbs/day
Nitrate-N	32.7	X	0.3525	X 8.34 = 96.1	1153.73 lbs/day
TSS	10	X	0.3525	X 8.34 = 29.4	692 lbs/day
TDS	502	х	0.3525	X 8.34 1475.8	report lbs/day
Sulfate	81.8	Х	0.3525	X 8.34 = 240.5	report lbs/day
Chlorides	43.2	х	0.3525	X 8.34 = 127.0	report lbs/day
Copper	0.0061	7 x	0.3525	X 8.34 = 0.0181	report lbs/day
Selenium	0.005	х	0.3525	X 8.34 = 0.0147	report lbs/day
Zinc	0.0419	×	0.3525	X 8.34 = 0.123	report lbs/day

- CERTIFICATE OF ANALYSIS -

Attn:

demand

Phone: FAX:

<

Ext:

Our Lab#: 2006-0983

. . .

Your Sample ID: El Dorado Chemical 003

Sample Type:

Report Date: 08-May-06

TSS

Total suspended solids

1.00

mg/L

4/26/2006

CBOD5

Carbonaceous biochemical oxygen

Void

mg/L

4/26/2006

FC-MF

Fecal coliform by membrane filter

cfu/100 ml ~14

4/26/2006

NH3-N-ISE

Ammonia as nitrogen

0.62

5/8/2006

Mass loading calculations

Parameter

Concentration (mg/L) X Flow (mgd) X 8.34 = lbs/day

Permitted limit

mg/L

TSS

1.0 0.043 Х

8.34 = 0.35

3.3 lbs/day

NH3-N

0.62 0.043

8.34 = 0.22Χ

2.1 lbs.day

Field Data

Outfall 001

Dissolved oxygen 6.52 mg/L

permitted minimum 5.0 mg/L

pН

7.84 S.U.

permitted range 6.0 -9.0 S.U.

Temperature

73.4 F

permitted maximum 86 F

Outfall 003

рΗ

6.47 S.U.

permitted range 6.0-9.0 S.U.

Page 1 of 1

P.O. BOX 1373 • OKLAHOMA CITY, OKLAHOMA 73101 • 405-235-4546

VIA CERTIFIED MAIL: 7004 0750 0000 9377 2108 RETURN RECEIPT REQUESTED

June 1, 2006

Mr. Dennis Benson Technical Assistance Manager NPDES Permits Section - Water Division Arkansas Department of Environmental Quality 8001 National Drive Little Rock, Arkansas 72219-8913





2006

RE:

Annual Compliance Progress Report - El Dorado Chemical Company

NPDES No. AR0000752

Dear Mr. Benson:

Pursuant to the requirements of Part IB Section B2 of the referenced NPDES permit, this letter serves as the second year Annual Compliance Progress Report. Pursuant to Part II Section D 5, this report is being submitted within 14 days of the schedule date of June 1, 2006.

During the second year under the referenced NPDES Permit, El Dorado Chemical Company (EDCC) has continued to conduct projects and studies in an effort to not only meet the final limitations of the NPDES permit, but to ensure compliance with current permit limitations. During the past year, there continued to be significant progress as a result of these activities. The following paragraphs present the details.

1. Hydrologic Study

EDCC submitted a hydrologic study plan for the storm water outfalls. This plan was approved by ADEQ and then subsequently revised to modify the location of the background monitor for Outfalls 006 and 007. During 2006 the level loggers continued to collect data pursuant to the approved work plan and the subsequent revision due to low flow conditions in 2005. Additional flow measurements required by the study plan were made during this quarter and we anticipate completion of the flow measurements during the 3nd quarter of 2006. The hydrologic study report will be developed and submitted to the ADEQ after that data is collected.

2. Retention Basin Temperature Study

Pursuant to the requirements of the final NPDES permit, EDCC submitted a temperature study plan for the purpose of determining the influence of ambient conditions on the temperature regime of the retention basin at EDCC. The study report was completed and submitted to the ADEQ during the 4th quarter of 2005. During the 1st quarter of 2006 ADEQ sent out review comments which were addressed by GBMc in correspondence. At this time there has been no permitting action based on the final study report. EDCC requests ADEQ to move forward on permitting action for EDCC to be able to discharge in July and August 2006.

Mr. Dennis Benson Technical Assistance Manager NPDES Permits Section - Water Division Arkansas Department of Environmental Quality May 31, 2006 Page 2

3. Storm Water Outfall Compliance

During the reporting period the following activities were accomplished to effectuate compliance with storm water discharges from Outfalls 004, 005, 006 and 007.

- EDCC evaluated alternatives including gravity diversion and source reduction to attain compliance with permit limits at Outfalls 006 and 007.
- Outfall 004 is in final stages of being diverted to Lake Lee.
- Storm water runoff from the industrial areas of Outfall 005 and part of Outfall 006 were routed into Lake Lee.
- Outfall 005 will be physically eliminated and a request to delete it from our NPDES permit was sent to the ADEQ on March 29, 2006. This project is on hold pending ADEQ's approval for routing Outfall 003 to Lake Lee. L Gan. tory ?

4. Source Reduction Analysis

During the reporting period source reduction activities continued, including:

Process improvements in the Nitrate Plant and Acid Plant areas were implemented to reduce waste loading to the wastewater system. These efforts have paid-off with major reductions in the nitrate and ammonia concentrations in the wastewater measured in Lake Lee. 2006 year to date Lake Lee effluent averaged 33 mg/L Ammonia-N and 67 mg/L Nitrate-N down from 2005's average of 120 mg/L Ammonia-N and 178 mg/L 2006 year to date Outfall 001 averaged 12 mg/L Ammonia-N and 63 mg/L Nitrate-N down from 2005's average of 70 mg/L Ammonia-N and 142 mg/L Nitrate-N.

Efforts continue to identify and repair piping and collection sumps in the Nitrate Plant area and Acid Plant Area to reduce waste loading to the wastewater system.

 The plant continues to recover waste streams for recycling in the processes. The plant has reduced the overall wastewater flowing to Lake Lee on a dry weather basis from 1.0 MGD to 0.6 MGD.

5. Wastewater System

During the reporting period, EDCC continued activities regarding the upgrade of the wastewater treatment system. These activities focused on both Lake Lee and Lake Kildeer as listed in the following sections.

Mr. Dennis Benson Technical Assistance Manager NPDES Permits Section - Water Division Arkansas Department of Environmental Quality May 31, 2006 Page 3

Wastewater/Storm Water Treatment

- Engineering work being done to route Outfall 006 and 007 to Lake Lee will be completed in the 2nd quarter of 2006.
- Constructed a new pipeline from Lake Lee to Lake Kildeer to convey peak storm/ process flows and minimize discharges from Outfall 001.
- In March of 2006, EDCC requested that ADEQ authorize a pilot test allowing the diversion of raw domestic sewage to Lake Lee to be used as a carbonaceous material supplement for the biological nitrification/denitrification process. As of this writing, ADEQ has not approved the request and EDCC is pursuing a meeting at which to discuss the need for this pilot project. With the lack of a carbon source in EDCC's wastewater, it is essential that raw domestic sewage be routed to Lake Lee. This could prevent EDCC from having to add Methanol as a carbon source.
- EDCC installed AquaMats in Lake Lee and Lake Kildeer. AquaMats are membranes for biofilm to attach. The AquaMats will sustain colonies of nitrifying and denitrifying bacteria to effectuate nitrogen removal treatment.

6. Wastewater Treatment Bioaugmentation

During the reporting period, EDCC continued implementation of the alternative wastewater treatment technology. We continue the collection of performance data to determine the efficacy of the organisms in our wastewater treatment system.

The data that EDCC has collected so far indicates that the source reduction and wastewater treatment improvements (including the addition of various microbes) has had a positive impact on the wastewater treatment system. The biomonitoring results from Outfall 001 continue to demonstrate steady improvement with all of the 2006 tests to date passing at 100% effluent water for lethality. The concentrations of contaminants such as ammonianitrogen and nitrate also continue to decline as well. The attached charts present the biomonitoring test results, the results of the source reduction efforts and effluent quality from Outfall 001.

7. Joint Pipeline Activities

During the reporting period, the ADEQ public noticed draft NPDES permits, the construction permit and the Water Quality Management Plan (WQMP) which supports the NPDES permit effluent limitations. In addition, the ADEQ conducted a public hearing on all the draft permits and the WQMP. We anticipate finalization of the permits during 2006.

Mr. Dennis Benson Technical Assistance Manager NPDES Permits Section - Water Division Arkansas Department of Environmental Quality May 31, 2006 Page 4

8. Ouachita River Nutrient Study

Additionally, during the reporting period, EDCC participated in the completion of the Ouachita River nutrient study requested by the ADEQ and other natural resource agencies. The final report for the study is to be completed and submitted to ADEQ by June 1, 2006.

9. Dissolved Minerals Study

During the reporting period, EDCC initiated a review of the receiving streams for Outfall 001 for the purpose of determining the feasibility of conducting a water quality study to amend the Arkansas Water Quality Standards for dissolved minerals and to remove the designated, but not existing, domestic water supply use. Based on the initial biological survey, the decision was made to proceed with the third-party rulemaking process and the fieldwork was completed during the reporting period. We anticipate submittal of the third party rulemaking request during 2006.

Hopefully, this letter has adequately explained the status of our NPDES compliance efforts during the reporting period. Should you have any questions, please feel free to call me at (405) 235-4546.

Sincerely,

John M. Carver

Vice President Safety and Environmental Compliance

oh m. Camen

cc: Mary Leath, Chief Deputy Director, ADEQ Martin Maner, Chief, Water Division, ADEQ

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El Dorado Chemical Co. Outfall 001 Monthly Averages



