



Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200803214	CAGE #: 07308500					METALS-TUL-D:						
		8/9/2008	8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			8/21/2008		JL	Dissolved Barium		0.12	mg/L	0.0006	0.0006	200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/21/2008		JL	Dissolved Copper		0.006	mg/L	0.0003	0.0003	200.7/6010B
			8/21/2008		JL	Dissolved Iron		0.2	mg/L	0.0008	0.0008	200.7/6010B
			8/21/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			8/21/2008		JL	Dissolved Manganese		0.079	mg/L	0.0001	0.0001	200.7/6010B
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			8/21/2008		JL	Dissolved Zinc		0.063	mg/L	0.0006	0.0006	200.7/6010B
200803214	CAGE #: 07308500					METALS-TULSA:						
		8/9/2008	8/22/2008	10:30	JL	Arsenic, Total		0.041	mg/L	0.009	0.009	200.7/6010B
			8/22/2008		JL	Barium, Total		0.11	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Copper, Total		0.011	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Iron, Total		0.23	mg/L	0.0008	0.0008	200.7/6010B
			8/22/2008		JL	Lead, Total		0.016	mg/L	0.009	0.009	200.7/6010B
			8/22/2008		JL	Manganese, Total		0.079	mg/L	0.0001	0.0001	200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Zinc, Total		0.051	mg/L	0.0006	0.0006	200.7/6010B
			8/26/2008	14:30	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/27/2008	10:21	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			8/22/2008	12:24	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740

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TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method
200803214	CAGE #: 07308500	8/9/2008	8/22/2008	10:30	JL	Silicon Dioxide (silica)		7.4	mg/l	0.006	0.006 200.7/6010B
200803214	CAGE #: 07308500					SALTS-TULSA:					
		8/9/2008	8/22/2008	15:50	JL	Calcium, Dissolved		258	mg/L	0.0039	0.0039 200.7/6010B
			8/22/2008		JL	Magnesium, Dissolved		114	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Phosphorus, Total		0.28	mg/L	0.0096	0.0096 200.7/6010B
			8/22/2008		JL	Potassium, Dissolved		25.8	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Sodium, Dissolved		1306	mg/L	0.0018	0.0018 200.7/6010B
			8/22/2008	15:50	JL	Total Hardness		1214	mg/l	0.06	0.06 200.7/6010B
			8/18/2008	10:00	YZ	Total Alkalinity		94	mg/l	2	2 EPA_310.1
			8/19/2008	10:30	YZ	Chloride		1400	mg/l	0.383	0.383 EPA 9253
		8/9/2008	10:26	J/M		Dissolved Oxygen		8.8	mg/l	0.1	0.1 EPA_360.1
		8/27/2008	11:00	MY		Fluoride	J	0.84	mg/L	0.04	0.04 EPA 340.1
		8/11/2008	13:54	YZ		Nitrate/nitrite As Nitroge	J	2	mg/l	1.2	1.2 EPA 353.3
		8/9/2008	10:26	J/M		pH		8.5	s.u.		EPA_150.1
		8/13/2008	9:10	YZ		Sulfate		1050	mg/l	1.2	1.2 EPA_375.2
		8/12/2008	9:40	YZ		Total Dissolved Solids		4096	mg/l	5.5	5.5 EPA_160.1
		8/28/2008	14:05	OP		Total Kjeldahl Nitrogen	J	1.12	mg/l	0.4	0.4 EPA_351.3M
		8/13/2008	16:09	YZ		Total Suspended Solids		53.6	mg/l	1.7	1.7 EPA_160.2
		8/22/2008	10:00	YZ		Turbidity		60.3	NTU	0.078	0.078 EPA_180.1
200803214	CAGE #: 07308500					PEST-OC-A:					
		8/9/2008	8/15/2008	17:19	MY	tcmx (Surr)		88	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A

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200803214	CAGE #: 07308500	8/9/2008	8/15/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			8/15/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
			8/15/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A
			8/15/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	1,2-dcbpl (Surr)		73	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A
200803215	CAGE #: 07312100					METALS-TUL-D:					
		8/9/2008	8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium		0.138	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008 200.7/6010B
			8/21/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Manganese		0.02	mg/L	0.0001	0.0001 200.7/6010B
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Zinc		0.045	mg/L	0.0006	0.0006 200.7/6010B
200803215	CAGE #: 07312100					METALS-TULSA:					
		8/9/2008	8/22/2008	10:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Barium, Total		0.154	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Iron, Total	U	BDL	mg/L	0.0008	0.0008 200.7/6010B
			8/22/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B

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200803215	CAGE #: 07312100	8/9/2008	8/22/2008		JL	Manganese, Total		0.023	mg/L	0.0001	0.0001 200.7/6010B	
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B	
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B	
			8/22/2008		JL	Zinc, Total		0.05	mg/L	0.0006	0.0006 200.7/6010B	
			8/26/2008	14:30	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/27/2008	10:24	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			8/22/2008	12:28	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
			8/22/2008	10:30	JL	Silicon Dioxide (silica)		6.01	mg/l	0.006	0.006	200.7/6010B
200803215	CAGE #: 07312100	8/9/2008	SALTS-TULSA:									
			8/22/2008	15:50	JL	Calcium, Dissolved		210	mg/L	0.0039	0.0039 200.7/6010B	
			8/22/2008		JL	Magnesium, Dissolved		67.9	mg/L	0.0006	0.0006 200.7/6010B	
			8/22/2008		JL	Phosphorus, Total		0.19	mg/L	0.0096	0.0096 200.7/6010B	
			8/22/2008		JL	Potassium, Dissolved		12.5	mg/L	0.0009	0.0009 200.7/6010B	
			8/22/2008		JL	Sodium, Dissolved		1070	mg/L	0.0018	0.0018 200.7/6010B	
			8/22/2008	15:50	JL	Total Hardness		962	mg/l	0.06	0.06	200.7/6010B
			8/18/2008	10:00	YZ	Total Alkalinity		98	mg/l	2	2	EPA_310.1
			8/19/2008	10:30	YZ	Chloride		1150	mg/l	0.383	0.383	EPA 9253
			8/9/2008	12:55	J/M	Dissolved Oxygen		9	mg/l	0.1	0.1	EPA_360.1
			8/27/2008	11:00	MY	Fluoride	J	0.61	mg/L	0.04	0.04	EPA 340.1
			8/11/2008	13:54	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
			8/9/2008	12:55	J/M	pH		8.4	s.u.			EPA_150.1
			8/13/2008	9:10	YZ	Sulfate		900	mg/l	1.2	1.2	EPA_375.2
			8/12/2008	9:40	YZ	Total Dissolved Solids		3368	mg/l	5.5	5.5	EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	J	0.56	mg/l	0.4	0.4	EPA_351.3M
8/13/2008	16:09	YZ	Total Suspended Solids		6.2	mg/l	1.7	1.7	EPA_160.2			
8/22/2008	10:00	YZ	Turbidity		3.8	NTU	0.078	0.078	EPA_180.1			
200803215	CAGE #: 07312100	8/9/2008	PEST-OC-A:									
			8/15/2008	17:56	MY	tcmx (Surr)		86	%Rec	70	70 EPA_8081A	
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A	

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains two main sections of data for lab numbers 200803215 and 200803216.

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
200803216	CAGE #: 07311900	8/9/2008	8/12/2008	9:40	YZ	Total Dissolved Solids		8442	mg/l	5.5	5.5 EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4 EPA_351.3M
			8/13/2008	16:09	YZ	Total Suspended Solids		5.9	mg/l	1.7	1.7 EPA_160.2
			8/22/2008	10:00	YZ	Turbidity		6	NTU	0.078	0.078 EPA_180.1
200803216	CAGE #: 07311900	8/9/2008	PEST-OC-A:								
			8/15/2008	18:32	MY	tcmx (Surr)	Q	63	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			8/15/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
8/15/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A			
8/15/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A			
8/15/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A			
8/15/2008		MY	1,2-dcbpl (Surr)	Q	48	%Rec	70	70 EPA_8081A			
8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A			
200803217	CAGE #: 07311782	8/9/2008	METALS-TUL-D:								
			8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium	U	BDL	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B			

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200803217	CAGE #: 07311782	8/9/2008	8/21/2008		JL	Dissolved Copper		0.06	mg/L	0.0003	0.0003	200.7/6010B
			8/21/2008		JL	Dissolved Iron		0.22	mg/L	0.0008	0.0008	200.7/6010B
			8/21/2008		JL	Dissolved Lead		0.05	mg/L	0.009	0.009	200.7/6010B
			8/21/2008		JL	Dissolved Manganese		0.14	mg/L	0.0001	0.0001	200.7/6010B
			8/21/2008		JL	Dissolved Nickel		U BDL	mg/L	0.0069	0.0069	200.7/6010B
			8/21/2008		JL	Dissolved Silver		U BDL	mg/L	0.0003	0.0003	200.7/6010B
			8/21/2008		JL	Dissolved Zinc		1.06	mg/L	0.0006	0.0006	200.7/6010B
200803217	CAGE #: 07311782	8/9/2008	METALS-TULSA:									
			8/22/2008	10:30	JL	Arsenic, Total		U BDL	mg/L	0.009	0.009	200.7/6010B
			8/22/2008		JL	Barium, Total		U BDL	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Cadmium, Total		U BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Chromium, Total		U BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Copper, Total		0.212	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Iron, Total		0.22	mg/L	0.0008	0.0008	200.7/6010B
			8/22/2008		JL	Lead, Total		0.11	mg/L	0.009	0.009	200.7/6010B
			8/22/2008		JL	Manganese, Total		0.16	mg/L	0.0001	0.0001	200.7/6010B
			8/22/2008		JL	Nickel, Total		U BDL	mg/L	0.0069	0.0069	200.7/6010B
			8/22/2008		JL	Silver, Total		U BDL	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Zinc, Total		1.01	mg/L	0.0006	0.0006	200.7/6010B
			8/26/2008	14:30	OP	Mercury, Dissolved		U BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/26/2008	14:30	OP	Mercury		U BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/27/2008	10:30	OL	Selenium, Dissolved		< 0.014	mg/l	0.0014	0.014	EPA_7440
8/22/2008	13:57	OL	Selenium		< 0.014	mg/l	0.0014	0.014	EPA_7740			
8/22/2008	10:30	JL	Silicon Dioxide (silica)		10.7	mg/l	0.006	0.006	200.7/6010B			
200803217	CAGE #: 07311782	8/9/2008	SALTS-TULSA:									
			8/22/2008	15:50	JL	Calcium, Dissolved		1310	mg/L	0.0039	0.0039	200.7/6010B
			8/22/2008		JL	Magnesium, Dissolved		410	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Phosphorus, Total		1.23	mg/L	0.0096	0.0096	200.7/6010B
			8/22/2008		JL	Potassium, Dissolved		126	mg/L	0.0009	0.0009	200.7/6010B
8/22/2008		JL	Sodium, Dissolved		19900	mg/L	0.0018	0.0018	200.7/6010B			

Susie Southwell

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Red River

Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL Method
200803217	CAGE #: 07311782	8/9/2008	8/22/2008	15:50	JL	Total Hardness		5578	mg/l	0.06	0.06 200.7/6010B
			8/18/2008	10:00	YZ	Total Alkalinity		104	mg/l	2	2 EPA_310.1
			8/19/2008	10:30	YZ	Chloride		20393	mg/l	0.383	0.383 EPA 9253
			8/9/2008	18:50	J/M	Dissolved Oxygen		10	mg/l	0.1	0.1 EPA_360.1
			8/27/2008	11:00	MY	Fluoride		1.81	mg/L	0.04	0.04 EPA 340.1
			8/11/2008	13:54	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA 353.3
			8/9/2008	18:50	J/M	pH		7.7	s.u.		EPA_150.1
			8/13/2008	9:10	YZ	Sulfate		3300	mg/l	1.2	1.2 EPA_375.2
			8/12/2008	9:40	YZ	Total Dissolved Solids		41948	mg/l	5.5	5.5 EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	J	1.12	mg/l	0.4	0.4 EPA_351.3M
			8/13/2008	16:09	YZ	Total Suspended Solids		14.3	mg/l	1.7	1.7 EPA_160.2
			8/22/2008	10:00	YZ	Turbidity		3.4	NTU	0.078	0.078 EPA_180.1
200803217	CAGE #: 07311782					PEST-OC-A:					
		8/9/2008	8/15/2008	19:09	MY	tcmx (Surr)		80	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			8/15/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
			8/15/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A
			8/15/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	1,2-dcbpl (Surr)	Q	34	%Rec	70	70 EPA_8081A

Susie Southwell

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Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL Method
200803217	CAGE #: 07311782	8/9/2008	8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A
200803218	CAGE #: 07311783					METALS-TUL-D:					
		8/9/2008	8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium		0.05	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Iron		0.63	mg/L	0.0008	0.0008 200.7/6010B
			8/21/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Manganese		0.51	mg/L	0.0001	0.0001 200.7/6010B
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Zinc		0.67	mg/L	0.0006	0.0006 200.7/6010B
200803218	CAGE #: 07311783					METALS-TULSA:					
		8/9/2008	8/22/2008	10:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Barium, Total		0.05	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Iron, Total		0.83	mg/L	0.0008	0.0008 200.7/6010B
			8/22/2008		JL	Lead, Total		0.019	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Manganese, Total		0.54	mg/L	0.0001	0.0001 200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Zinc, Total		0.12	mg/L	0.0006	0.0006 200.7/6010B
			8/29/2008	14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			8/27/2008	10:33	OL	Selenium, Dissolved	<	0.02	mg/l	0.0014	0.01946 EPA_7440
			8/22/2008	14:01	OL	Selenium	<	0.014	mg/l	0.0014	0.014 EPA_7740

Susie Southwell

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Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL Method
200803218	CAGE #: 07311783	8/9/2008	8/22/2008	10:30	JL	Silicon Dioxide (silica)		11.7	mg/l	0.006	0.006 200.7/6010B
200803218	CAGE #: 07311783					SALTS-TULSA:					
		8/9/2008	8/22/2008	15:50	JL	Calcium, Dissolved		1250	mg/L	0.0039	0.0039 200.7/6010B
			8/22/2008		JL	Magnesium, Dissolved		352	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Phosphorus, Total		1.15	mg/L	0.0096	0.0096 200.7/6010B
			8/22/2008		JL	Potassium, Dissolved		90.7	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Sodium, Dissolved		15400	mg/L	0.0018	0.0018 200.7/6010B
			8/22/2008	15:50	JL	Total Hardness		5548	mg/l	0.06	0.06 200.7/6010B
			8/18/2008	10:00	YZ	Total Alkalinity		154	mg/l	2	2 EPA_310.1
			8/19/2008	10:30	YZ	Chloride		17594	mg/l	0.383	0.383 EPA 9253
			8/9/2008	19:10	J/M	Dissolved Oxygen		12	mg/l	0.1	0.1 EPA_360.1
			8/27/2008	11:00	MY	Fluoride		2.02	mg/L	0.04	0.04 EPA 340.1
			8/11/2008	13:54	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA 353.3
			8/9/2008	19:10	J/M	pH		7.8	s.u.		EPA_150.1
			8/13/2008	9:10	YZ	Sulfate		3600	mg/l	1.2	1.2 EPA_375.2
			8/12/2008	9:40	YZ	Total Dissolved Solids		35146	mg/l	5.5	5.5 EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	J	0.84	mg/l	0.4	0.4 EPA_351.3M
			8/13/2008	16:09	YZ	Total Suspended Solids		19.8	mg/l	1.7	1.7 EPA_160.2
			8/22/2008	10:00	YZ	Turbidity		15	NTU	0.078	0.078 EPA_180.1
200803218	CAGE #: 07311783					PEST-OC-A:					
		8/9/2008	8/15/2008	19:46	MY	tcmx (Surr)		84	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A

Susie Southwell

Laboratory Authorized Signature



Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189

Date Received: 8/11/2008

Project Name: WATER QUALITY MONITORING

Report Date: 8/29/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL Method. Contains data for three lab numbers: 200803218, 200803219, and 200803219.

Susie Southwell

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Red River

Environmental Laboratory and Consulting Company

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Certificate of Analysis

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TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Analized Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method	
200803219	CAGE #: 07311700	8/9/2008	8/22/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001 200.7/6010B	
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B	
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B	
			8/22/2008		JL	Zinc, Total		0.32	mg/L	0.0006	0.0006 200.7/6010B	
			8/29/2008	14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/27/2008	10:36	OL	Selenium, Dissolved	<	0.014	mg/l	0.0014	0.014	EPA_7440
			8/22/2008	14:04	OL	Selenium	<	0.014	mg/l	0.0014	0.014	EPA_7740
			8/22/2008	10:30	JL	Silicon Dioxide (silica)		2.14	mg/l	0.006	0.006	200.7/6010B
200803219	CAGE #: 07311700	8/9/2008	SALTS-TULSA:									
			8/22/2008	15:50	JL	Calcium, Dissolved		858	mg/L	0.0039	0.0039 200.7/6010B	
			8/22/2008		JL	Magnesium, Dissolved		227	mg/L	0.0006	0.0006 200.7/6010B	
			8/22/2008		JL	Phosphorus, Total		0.94	mg/L	0.0096	0.0096 200.7/6010B	
			8/22/2008		JL	Potassium, Dissolved		31	mg/L	0.0009	0.0009 200.7/6010B	
			8/22/2008		JL	Sodium, Dissolved		5220	mg/L	0.0018	0.0018 200.7/6010B	
			8/22/2008	15:50	JL	Total Hardness		3670	mg/l	0.06	0.06	200.7/6010B
			8/18/2008	10:00	YZ	Total Alkalinity		42	mg/l	2	2	EPA_310.1
			8/19/2008	10:30	YZ	Chloride		6747	mg/l	0.383	0.383	EPA_9253
			8/9/2008	14:50	J/M	Dissolved Oxygen		9	mg/l	0.1	0.1	EPA_360.1
			8/27/2008	11:00	MY	Fluoride		1.7	mg/L	0.04	0.04	EPA_340.1
			8/11/2008	13:54	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			8/9/2008	14:50	J/M	pH		8.3	s.u.			EPA_150.1
			8/13/2008	9:10	YZ	Sulfate		3200	mg/l	1.2	1.2	EPA_375.2
			8/12/2008	9:40	YZ	Total Dissolved Solids		16434	mg/l	5.5	5.5	EPA_160.1
8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M			
8/13/2008	16:09	YZ	Total Suspended Solids		9.2	mg/l	1.7	1.7	EPA_160.2			
8/22/2008	10:00	YZ	Turbidity		8.3	NTU	0.078	0.078	EPA_180.1			
200803219	CAGE #: 07311700	8/9/2008	PEST-OC-A:									
			8/15/2008	20:23	MY	tcmx (Surr)	Q	58	%Rec	70	70 EPA_8081A	
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A	

Susie Southwell

Laboratory Authorized Signature



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Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189

Date Received: 8/11/2008

Project Name: WATER QUALITY MONITORING

Report Date: 8/29/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains data for two sample IDs: 200803219 and 200803220.

Susie Southwell

Laboratory Authorized Signature

Red River

Environmental Laboratory and Consulting Company

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Certificate of Analysis

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To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189

Date Received: 8/11/2008

Project Name: WATER QUALITY MONITORING

Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200803220	CAGE #: 07311630					METALS-TULSA:						
		8/9/2008	8/22/2008	10:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			8/22/2008		JL	Barium, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Copper, Total		0.014	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Iron, Total		0.057	mg/L	0.0008	0.0008	200.7/6010B
			8/22/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			8/22/2008		JL	Manganese, Total		0.07	mg/L	0.0001	0.0001	200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Zinc, Total		0.069	mg/L	0.0006	0.0006	200.7/6010B
		8/29/2008		14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		8/26/2008		14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		8/27/2008		11:36	OL	Selenium, Dissolved	<	0.0072	mg/l	0.0014	0.007	EPA_7440
		8/22/2008		12:44	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
		8/22/2008		10:30	JL	Silicon Dioxide (silica)		8.5	mg/l	0.006	0.006	200.7/6010B
200803220	CAGE #: 07311630					SALTS-TULSA:						
		8/9/2008	8/22/2008	15:50	JL	Calcium, Dissolved		835	mg/L	0.0039	0.0039	200.7/6010B
			8/22/2008		JL	Magnesium, Dissolved		164	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Phosphorus, Total		1.03	mg/L	0.0096	0.0096	200.7/6010B
			8/22/2008		JL	Potassium, Dissolved		19.1	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Sodium, Dissolved		2310	mg/L	0.0018	0.0018	200.7/6010B
			8/22/2008	15:50	JL	Total Hardness		2745	mg/l	0.06	0.06	200.7/6010B
			8/18/2008	10:00	YZ	Total Alkalinity		132	mg/l	2	2	EPA_310.1
			8/19/2008	10:30	YZ	Chloride		3000	mg/l	0.383	0.383	EPA 9253
		8/9/2008		16:00	J/M	Dissolved Oxygen		9.3	mg/l	0.1	0.1	EPA_360.1
		8/27/2008		11:00	MY	Fluoride		1.78	mg/L	0.04	0.04	EPA 340.1
		8/11/2008		13:54	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
		8/9/2008		16:00	J/M	pH		7.8	s.u.			EPA_150.1
		8/13/2008		9:10	YZ	Sulfate		2500	mg/l	1.2	1.2	EPA_375.2

Susie Southwell

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Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
200803220	CAGE #: 07311630	8/9/2008	8/12/2008	9:40	YZ	Total Dissolved Solids		9398	mg/l	5.5	5.5 EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4 EPA_351.3M
			8/13/2008	16:09	YZ	Total Suspended Solids		9.7	mg/l	1.7	1.7 EPA_160.2
			8/22/2008	10:00	YZ	Turbidity		6.7	NTU	0.078	0.078 EPA_180.1
200803220	CAGE #: 07311630	8/9/2008	PEST-OC-A:								
			8/15/2008	20:59	MY	tcmx (Surr)		101	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			8/15/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
			8/15/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
8/15/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A			
8/15/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A			
8/15/2008		MY	1,2-dcbpl (Surr)			112	%Rec	70	70 EPA_8081A		
8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A			
200803221	CAGE #: 07311600	8/9/2008	METALS-TUL-D:								
			8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium	U	BDL	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B			

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Environmental Laboratory and Consulting Company

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Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Analized Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method	
200803221	CAGE #: 07311600	8/9/2008	8/21/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B	
			8/21/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B	
			8/21/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B	
			8/21/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B	
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B	
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B	
			8/21/2008		JL	Dissolved Zinc			0.28	mg/L	0.0006	0.0006	200.7/6010B
200803221	CAGE #: 07311600	8/9/2008	METALS-TULSA:										
			8/22/2008	10:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B	
			8/22/2008		JL	Barium, Total			0.05	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B	
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B	
			8/22/2008		JL	Copper, Total			0.07	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Iron, Total			0.28	mg/L	0.0008	0.0008	200.7/6010B
			8/22/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B	
			8/22/2008		JL	Manganese, Total			0.06	mg/L	0.0001	0.0001	200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B	
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B	
			8/22/2008		JL	Zinc, Total			0.24	mg/L	0.0006	0.0006	200.7/6010B
			8/29/2008	14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1	
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1	
			8/27/2008	10:47	OL	Selenium, Dissolved	<	0.0164	mg/l	0.0014	0.01596	EPA_7440	
8/22/2008	14:17	OL	Selenium	<	0.014	mg/l	0.0014	0.014	EPA_7740				
8/22/2008	10:30	JL	Silicon Dioxide (silica)			2.71	mg/l	0.006	0.006	200.7/6010B			
200803221	CAGE #: 07311600	8/9/2008	SALTS-TULSA:										
			8/22/2008	15:50	JL	Calcium, Dissolved			1070	mg/L	0.0039	0.0039	200.7/6010B
			8/22/2008		JL	Magnesium, Dissolved			247	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Phosphorus, Total			0.78	mg/L	0.0096	0.0096	200.7/6010B
			8/22/2008		JL	Potassium, Dissolved			43.2	mg/L	0.0009	0.0009	200.7/6010B
8/22/2008		JL	Sodium, Dissolved			8140	mg/L	0.0018	0.0018	200.7/6010B			

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Certificate of Analysis

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To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL Method
200803221	CAGE #: 07311600	8/9/2008	8/22/2008	15:50	JL	Total Hardness		3527	mg/l	0.06	0.06 200.7/6010B
			8/18/2008	10:00	YZ	Total Alkalinity		72	mg/l	2	2 EPA_310.1
			8/19/2008	10:30	YZ	Chloride		9497	mg/l	0.383	0.383 EPA_9253
			8/9/2008	17:30	J/M	Dissolved Oxygen		12	mg/l	0.1	0.1 EPA_360.1
			8/27/2008	11:00	MY	Fluoride		1.93	mg/L	0.04	0.04 EPA_340.1
			8/11/2008	13:54	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA_353.3
			8/9/2008	17:30	J/M	pH		8.1	s.u.		EPA_150.1
			8/13/2008	9:10	YZ	Sulfate		3200	mg/l	1.2	1.2 EPA_375.2
			8/14/2008	16:00	YZ	Total Dissolved Solids		19820	mg/l	5.5	5.5 EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	J	0.56	mg/l	0.4	0.4 EPA_351.3M
			8/13/2008	16:09	YZ	Total Suspended Solids	J	3.4	mg/l	1.7	1.7 EPA_160.2
			8/22/2008	10:00	YZ	Turbidity		9.7	NTU	0.078	0.078 EPA_180.1
200803221	CAGE #: 07311600					PEST-OC-A:					
		8/9/2008	8/15/2008	22:13	MY	tcmx (Surr)		73	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			8/15/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
			8/15/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A
			8/15/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	1,2-dcbpl (Surr)	Q	53	%Rec	70	70 EPA_8081A

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Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189

Date Received: 8/11/2008

Project Name: WATER QUALITY MONITORING

Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method
200803221	CAGE #: 07311600	8/9/2008	8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A
200803222	CAGE #: 07312100 DUP					METALS-TUL-D:					
		8/9/2008	8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium		0.16	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008 200.7/6010B
			8/21/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Manganese		0.02	mg/L	0.0001	0.0001 200.7/6010B
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Zinc		0.052	mg/L	0.0006	0.0006 200.7/6010B
200803222	CAGE #: 07312100 DUP					METALS-TULSA:					
		8/9/2008	8/22/2008	10:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Barium, Total		0.14	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Iron, Total	U	BDL	mg/L	0.0008	0.0008 200.7/6010B
			8/22/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Manganese, Total		0.02	mg/L	0.0001	0.0001 200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Zinc, Total		0.052	mg/L	0.0006	0.0006 200.7/6010B
			8/29/2008	14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002 EPA_245.1

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Project #: W912BV07P0189
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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Analysis	Q	Results	Units	MDL	SQL	Method
200803222	CAGE #: 07312100 DUP	8/9/2008	8/27/2008	10:50	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			8/22/2008	12:57	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
			8/22/2008	10:30	JL	Silicon Dioxide (silica)	5.56	mg/l	0.006	0.006	200.7/6010B	
200803222	CAGE #: 07312100 DUP	8/9/2008	SALTS-TULSA:									
			8/22/2008	15:50	JL	Calcium, Dissolved	907	mg/L	0.0039	0.0039	200.7/6010B	
			8/22/2008		JL	Magnesium, Dissolved	81.2	mg/L	0.0006	0.0006	200.7/6010B	
			8/22/2008		JL	Phosphorus, Total	0.16	mg/L	0.0096	0.0096	200.7/6010B	
			8/22/2008		JL	Potassium, Dissolved	12.2	mg/L	0.0009	0.0009	200.7/6010B	
			8/22/2008		JL	Sodium, Dissolved	795	mg/L	0.0018	0.0018	200.7/6010B	
			8/22/2008	15:50	JL	Total Hardness	974.2	mg/l	0.06	0.06	200.7/6010B	
			8/18/2008	13:30	YZ	Total Alkalinity	96	mg/l	2	2	EPA_310.1	
			8/25/2008	14:00	MY	Chloride	1100	mg/l	0.383	0.383	EPA_9253	
			8/9/2008	12:53	J/M	Dissolved Oxygen	8.9	mg/l	0.1	0.1	EPA_360.1	
			8/27/2008	11:00	MY	Fluoride	J	0.86	mg/L	0.04	0.04	EPA_340.1
			8/11/2008	13:54	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			8/9/2008	12:53	J/M	pH	8.5	s.u.				EPA_150.1
			8/13/2008	9:10	YZ	Sulfate	850	mg/l	1.2	1.2	EPA_375.2	
8/14/2008	16:00	YZ	Total Dissolved Solids	3216	mg/l	5.5	5.5	EPA_160.1				
8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M			
8/13/2008	16:09	YZ	Total Suspended Solids	U	BDL	mg/l	1.7	1.7	EPA_160.2			
8/22/2008	10:00	YZ	Turbidity	7.8	NTU	0.078	0.078	EPA_180.1				
200803222	CAGE #: 07312100 DUP	8/9/2008	PEST-OC-A:									
			8/15/2008	22:50	MY	tcmx (Surr)	85	%Rec	70	70	EPA_8081A	
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
200803222	CAGE #: 07312100 DUP	8/9/2008	8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			8/15/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
			8/15/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A
			8/15/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	1,2-dcbpl (Surr)		74	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A
200803223	CAGE #: 07331600					METALS-TUL-D:					
		8/10/2008	8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium		0.15	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Iron		0.044	mg/L	0.0008	0.0008 200.7/6010B
			8/21/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Manganese		0.143	mg/L	0.0001	0.0001 200.7/6010B
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Zinc		0.007	mg/L	0.0006	0.0006 200.7/6010B
200803223	CAGE #: 07331600					METALS-TULSA:					
		8/10/2008	8/22/2008	10:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Barium, Total		0.14	mg/L	0.0006	0.0006 200.7/6010B

Susie Southwell

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Red River

Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189

Date Received: 8/11/2008

Project Name: WATER QUALITY MONITORING

Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method	
200803223	CAGE #: 07331600	8/10/2008	8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Iron, Total		0.067	mg/L	0.0008	0.0008	200.7/6010B
			8/22/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			8/22/2008		JL	Manganese, Total		0.132	mg/L	0.0001	0.0001	200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			8/22/2008		JL	Zinc, Total		0.005	mg/L	0.0006	0.0006	200.7/6010B
			8/29/2008	14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/27/2008	10:53	OL	Selenium, Dissolved	<	0.00171	mg/l	0.0014	0.001666	EPA_7440
			8/22/2008	13:00	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
			8/22/2008	10:30	JL	Silicon Dioxide (silica)		14.5	mg/l	0.006	0.006	200.7/6010B
			200803223	CAGE #: 07331600	8/10/2008	SALTS-TULSA:						
8/22/2008	15:50	JL				Calcium, Dissolved		143	mg/L	0.0039	0.0039	200.7/6010B
8/22/2008		JL				Magnesium, Dissolved		75.8	mg/L	0.0006	0.0006	200.7/6010B
8/22/2008		JL				Phosphorus, Total		0.22	mg/L	0.0096	0.0096	200.7/6010B
8/22/2008		JL				Potassium, Dissolved		6.8	mg/L	0.0009	0.0009	200.7/6010B
8/22/2008		JL				Sodium, Dissolved		112	mg/L	0.0018	0.0018	200.7/6010B
8/22/2008	15:50	JL				Total Hardness		659	mg/l	0.06	0.06	200.7/6010B
8/18/2008	13:30	YZ				Total Alkalinity		110	mg/l	2	2	EPA_310.1
8/25/2008	14:00	MY				Chloride		90	mg/l	0.383	0.383	EPA_9253
8/10/2008	10:25	J/M				Dissolved Oxygen		4	mg/l	0.1	0.1	EPA_360.1
8/27/2008	11:00	MY				Fluoride	J	0.97	mg/L	0.04	0.04	EPA_340.1
8/12/2008	11:13	YZ				Nitrate/nitrite As Nitroge	J	2	mg/l	1.2	1.2	EPA_353.3
8/10/2008	10:25	J/M				pH		8.4	s.u.			EPA_150.1
8/13/2008	9:10	YZ				Sulfate		680	mg/l	1.2	1.2	EPA_375.2
8/14/2008	16:00	YZ				Total Dissolved Solids		1310	mg/l	5.5	5.5	EPA_160.1
8/28/2008	14:05	OP	Total Kjeldahl Nitrogen		1.68	mg/l	0.4	0.4	EPA_351.3M			
8/15/2008	9:00	YZ	Total Suspended Solids		56.7	mg/l	1.7	1.7	EPA_160.2			

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To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method
200803223	CAGE #: 07331600	8/10/2008	8/22/2008	10:00	YZ	Turbidity		35.4	NTU	0.078	0.078 EPA_180.1
200803223	CAGE #: 07331600					PEST-OC-A:					
		8/10/2008	8/15/2008	23:26	MY	tcmx (Surr)		83	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			8/15/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			8/15/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			8/15/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			8/15/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
			8/15/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A
			8/15/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A
			8/15/2008		MY	1,2-dcbpl (Surr)	Q	69	%Rec	70	70 EPA_8081A
			8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A
200803224	CAGE #: 07316000					METALS-TUL-D:					
		8/10/2008	8/21/2008	14:30	JL	Dissolved Arsenic		0.034	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium		0.148	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Iron		0.019	mg/L	0.0008	0.0008 200.7/6010B
			8/21/2008		JL	Dissolved Lead		0.021	mg/L	0.009	0.009 200.7/6010B

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To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
200803224	CAGE #: 07316000	8/10/2008	8/21/2008		JL	Dissolved Manganese		0.59	mg/L	0.0001	0.0001 200.7/6010B
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Zinc		0.007	mg/L	0.0006	0.0006 200.7/6010B
200803224	CAGE #: 07316000	8/10/2008	METALS-TULSA:								
			8/22/2008	10:30	JL	Arsenic, Total		0.034	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Barium, Total		0.15	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Iron, Total		0.024	mg/L	0.0008	0.0008 200.7/6010B
			8/22/2008		JL	Lead, Total		0.017	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Manganese, Total		0.58	mg/L	0.0001	0.0001 200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Zinc, Total		0.01	mg/L	0.0006	0.0006 200.7/6010B
			8/29/2008	14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			8/27/2008	10:56	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014 EPA_7440
8/22/2008	13:04	OL	Selenium	U	BDL	mg/l	0.0014	0.0014 EPA_7740			
8/22/2008	10:30	JL	Silicon Dioxide (silica)		11.9	mg/l	0.006	0.006 200.7/6010B			
200803224	CAGE #: 07316000	8/10/2008	SALTS-TULSA:								
			8/22/2008	15:50	JL	Calcium, Dissolved		98.6	mg/L	0.0039	0.0039 200.7/6010B
			8/22/2008		JL	Magnesium, Dissolved		33.8	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Phosphorus, Total		0.41	mg/L	0.0096	0.0096 200.7/6010B
			8/22/2008		JL	Potassium, Dissolved		8.6	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Sodium, Dissolved		136	mg/L	0.0018	0.0018 200.7/6010B
			8/22/2008	15:50	JL	Total Hardness		383	mg/l	0.06	0.06 200.7/6010B
			8/18/2008	13:30	YZ	Total Alkalinity		140	mg/l	2	2 EPA_310.1
8/25/2008	14:00	MY	Chloride		166	mg/l	0.383	0.383 EPA 9253			

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Red River

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Certificate of Analysis

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To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200803224	CAGE #: 07316000	8/10/2008	8/10/2008	9:10	J/M	Dissolved Oxygen		8	mg/l	0.1	0.1	EPA_360.1
			8/27/2008	11:00	MY	Fluoride	J	0.59	mg/L	0.04	0.04	EPA_340.1
			8/12/2008	11:13	YZ	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			8/10/2008	9:10	J/M	pH		8.2	s.u.			EPA_150.1
			8/13/2008	9:10	YZ	Sulfate		200	mg/l	1.2	1.2	EPA_375.2
			8/14/2008	16:00	YZ	Total Dissolved Solids		750	mg/l	5.5	5.5	EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen	J	1.12	mg/l	0.4	0.4	EPA_351.3M
			8/15/2008	9:00	YZ	Total Suspended Solids	J	2.1	mg/l	1.7	1.7	EPA_160.2
			8/22/2008	10:50	YZ	Turbidity		2.1	NTU	0.078	0.078	EPA_180.1
200803224	CAGE #: 07316000					PEST-OC-A:						
		8/10/2008	8/16/2008	0:03	MY	tcmx (Surr)	Q	60	%Rec	70	70	EPA_8081A
			8/16/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			8/16/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			8/16/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			8/16/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			8/16/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
			8/16/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A
			8/16/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A
			8/16/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A
			8/16/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A
			8/16/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A
			8/16/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A
			8/16/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A
			8/16/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A
			8/16/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A
			8/16/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A
			8/16/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A
			8/16/2008		MY	1,2-dcbpl (Surr)		74	%Rec	70	70	EPA_8081A
			8/15/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A

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1645 S 101st EAST AVE
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Project #: W912BV07P0189
Project Name: WATER QUALITY MONITORING

Date Received: 8/11/2008
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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method
200803225	CAGE #: 07331000					METALS-TUL-D:					
		8/10/2008	8/21/2008	14:30	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Barium		0.21	mg/L	0.0006	0.0006 200.7/6010B
			8/21/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/21/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Iron		0.31	mg/L	0.0008	0.0008 200.7/6010B
			8/21/2008		JL	Dissolved Lead		0.012	mg/L	0.009	0.009 200.7/6010B
			8/21/2008		JL	Dissolved Manganese		0.37	mg/L	0.0001	0.0001 200.7/6010B
			8/21/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/21/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/21/2008		JL	Dissolved Zinc		0.046	mg/L	0.0006	0.0006 200.7/6010B
200803225	CAGE #: 07331000					METALS-TULSA:					
		8/10/2008	8/22/2008	10:30	JL	Arsenic, Total		0.044	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Barium, Total		0.2	mg/L	0.0006	0.0006 200.7/6010B
			8/22/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			8/22/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Iron, Total		0.26	mg/L	0.0008	0.0008 200.7/6010B
			8/22/2008		JL	Lead, Total		0.011	mg/L	0.009	0.009 200.7/6010B
			8/22/2008		JL	Manganese, Total		0.35	mg/L	0.0001	0.0001 200.7/6010B
			8/22/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			8/22/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			8/22/2008		JL	Zinc, Total		0.051	mg/L	0.0006	0.0006 200.7/6010B
			8/29/2008	14:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			8/26/2008	14:30	OP	Mercury	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			8/27/2008	10:59	OL	Selenium, Dissolved	<	0.0018	mg/l	0.0014	0.00175 EPA_7440
			8/22/2008	13:07	OL	Selenium	U	BDL	mg/l	0.0014	0.0014 EPA_7740
			8/22/2008	10:30	JL	Silicon Dioxide (silica)		10	mg/l	0.006	0.006 200.7/6010B

200803225 CAGE #: 07331000

SALTS-TULSA:

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Date Received: 8/11/2008
Report Date: 8/29/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200803225	CAGE #: 07331000	8/10/2008	8/22/2008	15:50	JL	Calcium, Dissolved		225	mg/L	0.0039	0.0039	200.7/6010B
			8/22/2008		JL	Magnesium, Dissolved		92.8	mg/L	0.0006	0.0006	200.7/6010B
			8/22/2008		JL	Phosphorus, Total		0.25	mg/L	0.0096	0.0096	200.7/6010B
			8/22/2008		JL	Potassium, Dissolved		27	mg/L	0.0009	0.0009	200.7/6010B
			8/22/2008		JL	Sodium, Dissolved		1120	mg/L	0.0018	0.0018	200.7/6010B
			8/22/2008	15:50	JL	Total Hardness		890	mg/l	0.06	0.06	200.7/6010B
			8/18/2008	13:30	YZ	Total Alkalinity		108	mg/l	2	2	EPA_310.1
			8/25/2008	14:00	MY	Chloride		1125	mg/l	0.383	0.383	EPA 9253
			8/10/2008	12:30	J/M	Dissolved Oxygen		9	mg/l	0.1	0.1	EPA_360.1
			8/27/2008	11:00	MY	Fluoride		J 0.93	mg/L	0.04	0.04	EPA 340.1
			8/12/2008	11:13	YZ	Nitrate/nitrite As Nitroge		J 3	mg/l	1.2	1.2	EPA 353.3
			8/10/2008	12:30	J/M	pH		8.4	s.u.			EPA_150.1
			8/13/2008	9:10	YZ	Sulfate		580	mg/l	1.2	1.2	EPA_375.2
			8/14/2008	16:00	YZ	Total Dissolved Solids		3010	mg/l	5.5	5.5	EPA_160.1
			8/28/2008	14:05	OP	Total Kjeldahl Nitrogen		1.96	mg/l	0.4	0.4	EPA_351.3M
			8/15/2008	9:00	YZ	Total Suspended Solids		49.9	mg/l	1.7	1.7	EPA_160.2
			8/22/2008	10:50	YZ	Turbidity		44.8	NTU	0.078	0.078	EPA_180.1
			200803225	CAGE #: 07331000	8/10/2008	PEST-OC-A:						
8/15/2008	0:40	MY				tcmx (Surr)		87	%Rec	70	70	EPA_8081A
8/15/2008		MY				Alpha-Bhc		U BDL	ug/l	0.04	0.04	EPA_8081A
8/15/2008		MY				Gamma-Bhc		U BDL	ug/l	0.04	0.04	EPA_8081A
8/15/2008		MY				Beta-Bhc		U BDL	ug/l	0.05	0.05	EPA_8081A
8/15/2008		MY				Delta-Bhc		U BDL	ug/l	0.05	0.05	EPA_8081A
8/15/2008		MY				Heptachlor		U BDL	ug/l	0.04	0.04	EPA_8081A
8/15/2008		MY				Aldrin		U BDL	ug/l	0.04	0.04	EPA_8081A
8/15/2008		MY				Heptachlor Epoxide		U BDL	ug/l	0.04	0.04	EPA_8081A
8/15/2008		MY				Chlordane		U BDL	ug/l	0.2	0.2	EPA_8081A
8/15/2008		MY				Endosulfan I		U BDL	ug/l	0.05	0.05	EPA_8081A
8/15/2008		MY				Dieldrin		U BDL	ug/l	0.09	0.09	EPA_8081A
8/15/2008		MY				Endrin		U BDL	ug/l	0.07	0.07	EPA_8081A
8/15/2008		MY				Endosulfan II		U BDL	ug/l	0.07	0.07	EPA_8081A

Susie Southwell

Laboratory Authorized Signature



Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV07P0189

Date Received: 8/11/2008

Project Name: WATER QUALITY MONITORING

Report Date: 8/29/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL, Method. Contains 6 rows of analysis data for sample 200803225.

Note:

- 200803216: Change in detection limit in selenium is based on dilution factor.
200803217: Change in detection limit in selenium is based on dilution factor.
200803218: Change in detection limit in selenium is based on dilution factor.
200803219: Change in detection limit in selenium is based on dilution factor.
200803220: Change in detection limit in selenium is based on dilution factor.
200803221: Change in detection limit in selenium is based on dilution factor.
200803223: Change in detection limit in selenium is based on dilution factor.
200803225: Change in detection limit in selenium is based on dilution factor.

MDL = Method Detection Limit. SQL* = Sample Quantitation Level.

BDL = Analyte was analyzed for but not detected above MDL.

B = Analyte was detected in both the sample and associated blank.

J = Analyte was detected above the MDL but below the PQL.

OL2 = Subcontracted to ODEQ Lab #7211.

Q = Surrogate recovery fell outside acceptance limits.

M = Matrix effect present

* When a sample contains a high concentration of either a target or non-target compound(s) or interference, it must be diluted. SQL = Dilution factor x MDL. Samples are disposed of 20 days after the sample is reported.

Susie Southwell

Laboratory Authorized Signature