



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: 3/7/2008
Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800848	07331000					METALS-TUL-D:						
		3/6/2008	3/24/2008	14:04	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Barium		0.137	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper		0.042	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron		0.024	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
200800848	07331000					METALS-TULSA:						
		3/6/2008	3/24/2008	15:50	JL	Arsenic, Total		0.06	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total		0.2	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total		0.066	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total		3.32	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total		0.038	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total		1.07	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Nickel, Total		0.02	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Zinc, Total		0.032	mg/L	0.0006	0.0006	200.7/6010B
			3/19/2008	14:45	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/11/2008	14:42	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/24/2008	19:08	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			3/24/2008	21:23	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740

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
Project Name: WATER QUALITY MONITORING

Date Received: 3/7/2008
Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800848	07331000	3/6/2008	3/24/2008	15:50	JL	Silicon Dioxide (silica)		31.2	mg/l	0.006	0.006	200.7/6010B
200800848	07331000					SALTS-TULSA:						
		3/6/2008	3/21/2008	14:30	JL	Calcium, Dissolved		133.7	mg/L	0.0039	0.0039	200.7/6010B
			3/21/2008		JL	Magnesium, Dissolved		44.9	mg/L	0.0006	0.0006	200.7/6010B
			3/21/2008		JL	Phosphorus, Total		0.7	mg/L	0.0096	0.0096	200.7/6010B
			3/21/2008		JL	Potassium, Dissolved		8.6	mg/L	0.0009	0.0009	200.7/6010B
			3/21/2008		JL	Sodium, Dissolved		54.2	mg/L	0.0018	0.0018	200.7/6010B
			3/21/2008	15:30	JL	Total Hardness		638	mg/l	0.06	0.06	200.7/6010B
			3/13/2008	14:30	OP	Total Alkalinity		218	mg/l	2	2	EPA_310.1
			3/17/2008	13:10	OP	Chloride		43.3	mg/l	0.383	0.383	EPA 9253
			3/6/2008	12:10	JL	Dissolved Oxygen		10.2	mg/l	0.1	0.1	EPA_360.1
			3/12/2008	16:10	OP	Fluoride		0.74	mg/L			EPA 340.1
			3/13/2008	10:00	OP	Nitrate/nitrite As Nitroge	J	3.002	mg/l	1.2	1.2	EPA 353.3
			3/6/2008	12:10	J/P	pH		8.4	s.u.			EPA_150.1
			3/14/2008	13:43	OP	Sulfate		350	mg/l	1.2	1.2	EPA_375.2
			3/11/2008	9:31	SS	Total Dissolved Solids		838	mg/l	5.5	5.5	EPA_160.1
			3/18/2008	14:30	OP	Total Kjeldahl Nitrogen		5.88	mg/l	0.4	0.4	EPA_351.3M
			3/10/2008	11:20	SS	Total Suspended Solids		1780	mg/l	1.7	1.7	EPA_160.2
			3/17/2008	15:45	SS	Turbidity	B	1890	NTU	0.078	0.078	EPA_180.1
200800849	07331600					METALS-TUL-D:						
		3/6/2008	3/24/2008	14:04	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Barium		0.157	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper		0.033	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron		0.014	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel		0.008	mg/L	0.0069	0.0069	200.7/6010B

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
Project Name: WATER QUALITY M

Date Received: 3/7/2008
Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800849	07331600	3/6/2008	3/24/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
200800849	07331600					METALS-TULSA:						
		3/6/2008	3/24/2008	15:50	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total		0.174	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total		0.033	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total		0.1	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total		0.013	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total		0.035	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Nickel, Total		0.01	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Zinc, Total		0.008	mg/L	0.0006	0.0006	200.7/6010B
			3/19/2008	14:45	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/11/2008	14:42	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/24/2008	19:11	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			3/24/2008	21:26	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
			3/24/2008	15:50	JL	Silicon Dioxide (silica)		12.6	mg/l	0.006	0.006	200.7/6010B
200800849	07331600					SALTS-TULSA:						
		3/6/2008	3/21/2008	14:30	JL	Calcium, Dissolved		32.5	mg/L	0.0039	0.0039	200.7/6010B
			3/21/2008		JL	Magnesium, Dissolved		12.1	mg/L	0.0006	0.0006	200.7/6010B
			3/21/2008		JL	Phosphorus, Total		0.059	mg/L	0.0096	0.0096	200.7/6010B
			3/21/2008		JL	Potassium, Dissolved		3.39	mg/L	0.0009	0.0009	200.7/6010B
			3/21/2008		JL	Sodium, Dissolved		48.5	mg/L	0.0018	0.0018	200.7/6010B
			3/21/2008	15:30	JL	Total Hardness		357	mg/l	0.06	0.06	200.7/6010B
			3/13/2008	14:30	OP	Total Alkalinity		138	mg/l	2	2	EPA_310.1
			3/17/2008	13:10	OP	Chloride		155	mg/l	0.383	0.383	EPA 9253
			3/6/2008	16:30	JL	Dissolved Oxygen		11.2	mg/l	0.1	0.1	EPA_360.1
			3/12/2008	16:10	OP	Fluoride		0.47	mg/L			EPA 340.1

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
Project Name: WATER QUALITY M

Date Received: 3/7/2008
Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Analysis Parameter	Q	Results	Units	MDL	SQL	Method
200800849	07331600	3/6/2008	3/13/2008	10:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			3/6/2008	16:30	J/P	pH		8.6	s.u.			EPA_150.1
			3/14/2008	13:43	OP	Sulfate		200	mg/l	1.2	1.2	EPA_375.2
			3/11/2008	9:31	SS	Total Dissolved Solids	J	7.34	mg/l	5.5	5.5	EPA_160.1
			3/18/2008	14:30	OP	Total Kjeldahl Nitrogen	J	1.01	mg/l	0.4	0.4	EPA_351.3M
			3/10/2008	11:20	SS	Total Suspended Solids		21.9	mg/l	1.7	1.7	EPA_160.2
			3/17/2008	15:45	SS	Turbidity	B	18.2	NTU	0.078	0.078	EPA_180.1
200800850	07316000	3/7/2008	METALS-TUL-D:									
			3/24/2008	14:04	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Barium		0.167	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper		0.035	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron		0.027	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
200800850	07316000	3/7/2008	METALS-TULSA:									
			3/24/2008	15:50	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total		0.152	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total		0.063	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total		0.12	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total		0.014	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total		0.088	mg/L	0.0001	0.0001	200.7/6010B
3/24/2008		JL	Nickel, Total		0.01	mg/L	0.0069	0.0069	200.7/6010B			

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: 3/7/2008

Project Name: WATER QUALITY M

Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL Method. Contains analysis data for samples 200800850 and 200800866.

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800866	07312100	3/8/2008	3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper		0.033	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron		0.04	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead		0.019	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese		0.2	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Zinc		0.018	mg/L	0.0006	0.0006	200.7/6010B
200800866	07312100	3/8/2008	METALS-TULSA:									
			3/24/2008	15:50	JL	Arsenic, Total		0.055	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total		0.029	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total		0.031	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total		0.324	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total		0.017	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total		0.23	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Zinc, Total		0.02	mg/L	0.0006	0.0006	200.7/6010B
			3/19/2008	14:45	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/11/2008	14:42	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/24/2008	19:31	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			3/24/2008	21:32	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
3/24/2008	15:50	JL	Silicon Dioxide (silica)		14.6	mg/l	0.006	0.006	200.7/6010B			
200800866	07312100	3/8/2008	SALTS-TULSA:									
			3/21/2008	14:30	JL	Calcium, Dissolved		266.6	mg/L	0.0039	0.0039	200.7/6010B
			3/21/2008		JL	Magnesium, Dissolved		82.3	mg/L	0.0006	0.0006	200.7/6010B
			3/21/2008		JL	Phosphorus, Total		0.095	mg/L	0.0096	0.0096	200.7/6010B
3/21/2008		JL	Potassium, Dissolved		16.1	mg/L	0.0009	0.0009	200.7/6010B			

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 #:
Project Name:

Date Received: 3/10/2008
Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL Method. Contains data for Lab 200800866 and Lab 200800867.

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

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 200800867.

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800868	07311800					METALS-TUL-D:						
		3/9/2008	3/24/2008	14:04	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Barium		0.04	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead		0.04	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese		0.11	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Zinc		0.15	mg/L	0.0006	0.0006	200.7/6010B
200800868	07311800					METALS-TULSA:						
		3/9/2008	3/24/2008	15:50	JL	Arsenic, Total		0.21	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total		0.03	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total		0.05	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total		0.12	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Zinc, Total		0.15	mg/L	0.0006	0.0006	200.7/6010B
			3/19/2008	14:45	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/11/2008	14:42	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			3/24/2008	19:37	OL	Selenium, Dissolved	<	0.0072	mg/l	0.0014	0.007	EPA_7440
			3/24/2008	21:56	OL	Selenium	<	0.0072	mg/l	0.0014	0.007	EPA_7740
			3/24/2008	15:50	JL	Silicon Dioxide (silica)		7.53	mg/l	0.006	0.006	200.7/6010B

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800868	07311800					SALTS-TULSA:						
		3/9/2008	3/21/2008	14:30	JL	Calcium, Dissolved		1174	mg/L	0.0039	0.0039	200.7/6010B
			3/21/2008		JL	Magnesium, Dissolved		522	mg/L	0.0006	0.0006	200.7/6010B
			3/21/2008		JL	Phosphorus, Total		0.68	mg/L	0.0096	0.0096	200.7/6010B
			3/21/2008		JL	Potassium, Dissolved		49.2	mg/L	0.0009	0.0009	200.7/6010B
			3/21/2008		JL	Sodium, Dissolved		4821	mg/L	0.0018	0.0018	200.7/6010B
			3/21/2008	15:30	JL	Total Hardness		5299	mg/l	0.06	0.06	200.7/6010B
			3/13/2008	14:30	OP	Total Alkalinity		230	mg/l	2	2	EPA_310.1
			3/17/2008	13:10	OP	Chloride		5138	mg/l	0.383	0.383	EPA 9253
			3/9/2008	10:33	J/M	Dissolved Oxygen		9.6	mg/l	0.1	0.1	EPA_360.1
			3/12/2008	16:10	OP	Fluoride		1.4	mg/L			EPA 340.1
			3/13/2008	10:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
			3/9/2008	10:33	J/M	pH		8.2	s.u.			EPA_150.1
			3/14/2008	13:43	OP	Sulfate		3400	mg/l	1.2	1.2	EPA_375.2
			3/11/2008	9:31	SS	Total Dissolved Solids		13832	mg/l	5.5	5.5	EPA_160.1
			3/18/2008	14:30	OP	Total Kjeldahl Nitrogen	J	0.56	mg/l	0.4	0.4	EPA_351.3M
			3/10/2008	11:20	SS	Total Suspended Solids		8.9	mg/l	1.7	1.7	EPA_160.2
			3/17/2008	15:45	SS	Turbidity	B	15.4	NTU	0.078	0.078	EPA_180.1
200800869	07311700					METALS-TUL-D:						
		3/9/2008	3/24/2008	14:04	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Barium		0.04	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200800869	07311700	3/9/2008	3/24/2008		JL	Dissolved Zinc		0.2	mg/L	0.0006	0.0006	200.7/6010B
200800869	07311700					METALS-TULSA:						
		3/9/2008	3/24/2008	15:50	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total		0.05	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Zinc, Total		0.17	mg/L	0.0006	0.0006	200.7/6010B
		3/19/2008		14:45	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		3/11/2008		14:42	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		3/24/2008		19:40	OL	Selenium, Dissolved	<	0.00432	mg/l	0.0014	0.0042	EPA_7440
		3/24/2008		21:59	OL	Selenium	<	0.00432	mg/l	0.0014	0.0042	EPA_7740
		3/24/2008		15:50	JL	Silicon Dioxide (silica)		1.26	mg/l	0.006	0.006	200.7/6010B
200800869	07311700					SALTS-TULSA:						
		3/9/2008	3/21/2008	14:30	JL	Calcium, Dissolved		1004	mg/L	0.0039	0.0039	200.7/6010B
			3/21/2008		JL	Magnesium, Dissolved		250.1	mg/L	0.0006	0.0006	200.7/6010B
			3/21/2008		JL	Phosphorus, Total		0.2	mg/L	0.0096	0.0096	200.7/6010B
			3/21/2008		JL	Potassium, Dissolved		39.5	mg/L	0.0009	0.0009	200.7/6010B
			3/21/2008		JL	Sodium, Dissolved		6224	mg/L	0.0018	0.0018	200.7/6010B
			3/21/2008	15:30	JL	Total Hardness		3640	mg/l	0.06	0.06	200.7/6010B
		3/14/2008		8:52	OP	Total Alkalinity		109	mg/l	2	2	EPA_310.1
		3/17/2008		13:10	OP	Chloride		6223	mg/l	0.383	0.383	EPA 9253
		3/9/2008		10:52	J/M	Dissolved Oxygen		11.5	mg/l	0.1	0.1	EPA_360.1
		3/12/2008		16:10	OP	Fluoride		1.6	mg/L			EPA 340.1
		3/13/2008		10:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200800869	07311700	3/9/2008	3/9/2008	10:52	J/M	pH		8.4	s.u.			EPA_150.1
			3/14/2008	13:43	OP	Sulfate		3000	mg/l	1.2	1.2	EPA_375.2
			3/11/2008	9:31	SS	Total Dissolved Solids		14968	mg/l	5.5	5.5	EPA_160.1
			3/21/2008	8:15	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M
			3/12/2008	13:00	SS	Total Suspended Solids		7.73	mg/l	1.7	1.7	EPA_160.2
			3/17/2008	15:45	SS	Turbidity	B	14.2	NTU	0.078	0.078	EPA_180.1
200800870	07311630	3/9/2008	METALS-TUL-D:									
			3/24/2008	14:04	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Barium	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
200800870	07311630	3/9/2008	METALS-TULSA:									
			3/24/2008	15:50	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total		0.08	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B			

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 #:
Project Name:

Date Received: 3/10/2008
Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q Results, Units, MDL, SQL Method. Includes data for samples 200800870 and 200800871.

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 #:
Project Name:

Date Received: 3/10/2008
Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains data for various chemical analyses including Dissolved Copper, Iron, Lead, Manganese, Nickel, Silver, Zinc, and METALS-TULSA (Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Silver, Zinc, Mercury, Selenium, Silicon Dioxide) and SALTS-TULSA (Calcium, Magnesium, Phosphorus, Potassium, Sodium).

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 #:
Project Name:

Date Received: 3/10/2008
Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q, Results, Units, MDL, SQL Method. Contains data for samples 200800871, 200800872 (METALS-TUL-D), and 200800872 (METALS-TULSA).

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method			
200800872	07311782	3/9/2008	3/24/2008		JL	Copper, Total		0.06	mg/L	0.0003	0.0003 200.7/6010B			
			3/24/2008		JL	Iron, Total		0.028	mg/L	0.0008	0.0008 200.7/6010B			
			3/24/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B			
			3/24/2008		JL	Manganese, Total		0.13	mg/L	0.0001	0.0001 200.7/6010B			
			3/24/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B			
			3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B			
			3/24/2008		JL	Zinc, Total		0.21	mg/L	0.0006	0.0006 200.7/6010B			
			3/19/2008	14:45	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002 EPA_245.1			
			3/11/2008	14:42	OP	Mercury	U	BDL	mg/l	0.0002	0.0002 EPA_245.1			
			3/24/2008	19:49	OL	Selenium, Dissolved	<	0.0072	mg/l	0.0014	0.007 EPA_7440			
			3/24/2008	22:08	OL	Selenium	<	0.0072	mg/l	0.0014	0.007 EPA_7740			
			3/24/2008	15:50	JL	Silicon Dioxide (silica)		7.53	mg/l	0.006	0.006 200.7/6010B			
			200800872	07311782	3/9/2008	SALTS-TULSA:								
						3/21/2008	14:30	JL	Calcium, Dissolved		1495	mg/L	0.0039	0.0039 200.7/6010B
3/21/2008		JL				Magnesium, Dissolved		439	mg/L	0.0006	0.0006 200.7/6010B			
3/21/2008		JL				Phosphorus, Total		0.64	mg/L	0.0096	0.0096 200.7/6010B			
3/21/2008		JL				Potassium, Dissolved		149	mg/L	0.0009	0.0009 200.7/6010B			
3/21/2008		JL				Sodium, Dissolved		25280	mg/L	0.0018	0.0018 200.7/6010B			
3/21/2008	15:30	JL				Total Hardness		5822	mg/l	0.06	0.06 200.7/6010B			
3/14/2008	8:52	OP				Total Alkalinity		120	mg/l	2	2 EPA_310.1			
3/17/2008	13:10	OP				Chloride		20594	mg/l	0.383	0.383 EPA 9253			
3/9/2008	15:45	J/M				Dissolved Oxygen		10.2	mg/l	0.1	0.1 EPA_360.1			
3/12/2008	16:10	OP				Fluoride		1.95	mg/L		EPA 340.1			
3/13/2008	10:00	OP				Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA 353.3			
3/9/2008	15:45	J/M				pH		7.96	s.u.		EPA_150.1			
3/14/2008	13:43	OP				Sulfate		3300	mg/l	1.2	1.2 EPA_375.2			
3/13/2008	15:40	SS				Total Dissolved Solids		38852	mg/l	5.5	5.5 EPA_160.1			
3/21/2008	8:15	OP				Total Kjeldahl Nitrogen	J	0.5	mg/l	0.4	0.4 EPA_351.3M			
3/12/2008	13:00	SS				Total Suspended Solids	J	2.2	mg/l	1.7	1.7 EPA_160.2			
3/17/2008	15:45	SS	Turbidity	B	2	NTU	0.078	0.078 EPA_180.1						

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q Results, Units, MDL, SQL Method. Contains two main sections for METALS-TUL-D and METALS-TULSA.

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q Results, Units, MDL, SQL Method. Contains two main sections: SALTS-TULSA and METALS-TUL-D.

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q Results, Units, MDL, SQL Method. Contains data for METALS-TULSA and SALTS-TULSA.

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Analysis Parameter	Q	Results	Units	MDL	SQL Method	
200800874	07308500	3/8/2008	3/14/2008	13:43	OP	Sulfate		875	mg/l	1.2	1.2 EPA_375.2	
			3/13/2008	15:40	SS	Total Dissolved Solids		3828	mg/l	5.5	5.5 EPA_160.1	
			3/21/2008	8:15	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4 EPA_351.3M	
			3/12/2008	13:00	SS	Total Suspended Solids		30.6	mg/l	1.7	1.7 EPA_160.2	
			3/17/2008	15:45	SS	Turbidity	B	35.6	NTU	0.078	0.078 EPA_180.1	
200800875	07311900 DUP	3/8/2008	METALS-TUL-D:									
			3/24/2008	14:04	JL	Dissolved Arsenic		0.026	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Barium		0.05	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Dissolved Copper		0.06	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Dissolved Iron		0.06	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Dissolved Lead		0.013	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Dissolved Manganese		0.156	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
3/24/2008		JL	Dissolved Zinc		0.034	mg/L	0.0006	0.0006	200.7/6010B			
200800875	07311900 DUP	3/8/2008	METALS-TULSA:									
			3/24/2008	15:50	JL	Arsenic, Total		0.03	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Barium, Total		0.048	mg/L	0.0006	0.0006	200.7/6010B
			3/24/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			3/24/2008		JL	Copper, Total		0.064	mg/L	0.0003	0.0003	200.7/6010B
			3/24/2008		JL	Iron, Total		0.067	mg/L	0.0008	0.0008	200.7/6010B
			3/24/2008		JL	Lead, Total		0.014	mg/L	0.009	0.009	200.7/6010B
			3/24/2008		JL	Manganese, Total		0.178	mg/L	0.0001	0.0001	200.7/6010B
			3/24/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			3/24/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
3/24/2008		JL	Zinc, Total		0.095	mg/L	0.0006	0.0006	200.7/6010B			

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 #:
Project Name:

Date Received: 3/10/2008
Report Date: 3/31/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Includes data for Mercury, Selenium, Silicon Dioxide, and various salts.

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 #:

Date Received: 3/10/2008

Project Name:

Report Date: 3/31/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
------------	-----------------------	--------------	---------------	------	----	-----------	---	---------	-------	-----	------------

Note:

- 200800867: Higher detection limit on selenium is based on sample needing dilution prior to analysis.
- 200800868: Higher detection limit on selenium is based on sample needing dilution prior to analysis.
- 200800869: Higher detection limit on selenium is based on sample needing dilution prior to analysis.
- 200800870: Higher detection limit on selenium is based on sample needing dilution prior to analysis.
- 200800871: Higher detection limit on selenium is based on sample needing dilution prior to analysis.
- 200800872: Higher detection limit on selenium is based on sample needing dilution prior to analysis.
- 200800875: Higher detection limit on selenium is based on sample needing dilution prior to analysis.

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.

* 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.

Laboratory Authorized Signature