

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 #: W912BV07-P-0189

Date Received: 1/19/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | By | Parameter | Q | Results | Units | MDL | SQL | Method |
|------------|-----------------------|--------------|---------------|-------|----|---------------------|---|---------|-------|---------|---------|-------------|
| 200900251 | GAGE# 07331000 | | | | | METALS-TUL-D: | | | | | | |
| | | 1/18/2009 | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Barium | | 0.119 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | | 0.006 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Copper | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Iron | | 0.034 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Manganese | | 0.008 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Zinc | | 0.002 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| 200900251 | GAGE# 07331000 | | | | | METALS-TULSA: | | | | | | |
| | | 1/18/2009 | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Barium, Total | | 0.132 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Cadmium, Total | | 0.005 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Copper, Total | | 0.082 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Iron, Total | | 0.137 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Manganese, Total | | 0.054 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Zinc, Total | | 0.008 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | 2/4/2009 | | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | 1/28/2009 | | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | 1/26/2009 | | 9:14 | OL | Selenium, Dissolved | U | BDL | mg/l | 0.00169 | 0.00169 | EPA_7440 |
| | | 1/26/2009 | | 10:45 | OL | Selenium | U | BDL | mg/l | 0.00169 | 0.00169 | EPA_7740 |

Susie Southwell

Laboratory Authorized Signature



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Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | Analized By | Parameter | Q | Results | Units | MDL | SQL Method |
|------------|-----------------------|--------------|---------------|-------|-------------|----------------------------|---|---------|-------|--------|--------------------|
| 200900251 | GAGE# 07331000 | 1/18/2009 | 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 11.9 | mg/l | 0.006 | 0.006 200.7/6010B |
| 200900251 | GAGE# 07331000 | | | | | SALTS-TULSA: | | | | | |
| | | 1/18/2009 | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | | 281 | mg/L | 0.0039 | 0.0039 200.7/6010B |
| | | | 2/5/2009 | | JL | Magnesium, Dissolved | | 90.5 | mg/L | 0.0006 | 0.0006 200.7/6010B |
| | | | 2/5/2009 | | JL | Phosphorus, Total | | 0.22 | mg/L | 0.0096 | 0.0096 200.7/6010B |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | | 6.06 | mg/L | 0.0009 | 0.0009 200.7/6010B |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | | 150 | mg/L | 0.0018 | 0.0018 200.7/6010B |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | | 1078 | mg/l | 0.06 | 0.06 200.7/6010B |
| | | | 1/23/2009 | 11:52 | PR | Total Alkalinity | | 218 | mg/l | 2 | 2 EPA_310.1 |
| | | | 2/3/2009 | 10:00 | JC | Chloride | | 69 | mg/l | 0.383 | 0.383 SM4500-CL-B |
| | | | 1/18/2009 | 14:30 | JL | Dissolved Oxygen | | 10.49 | mg/l | 0.1 | 0.1 EPA_360.1 |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | | 0.98 | mg/L | 0.04 | 0.04 SM4500F-D |
| | | | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 SM_4500-NO |
| | | | 1/18/2009 | 14:30 | JL | pH | | 7.4 | s.u. | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | | 700 | mg/l | 1.2 | 1.2 EPA_375.2 |
| | | | 1/21/2009 | 10:08 | SS | Total Dissolved Solids | | 1530 | mg/l | 5.5 | 5.5 SM_2540C |
| | | | 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | U | BDL | mg/l | 0.4 | 0.4 EPA_351.3M |
| | | | 1/20/2009 | 14:10 | SS | Total Suspended Solids | | 28.8 | mg/l | 1.7 | 1.7 SM 2540D |
| | | | 1/22/2009 | 13:25 | SS | Turbidity | | 21.9 | NTU | 1 | 1 EPA_180.1 |
| 200900252 | GAGE# 07331600 | | | | | METALS-TUL-D: | | | | | |
| | | 1/18/2009 | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Barium | | 0.155 | mg/L | 0.0006 | 0.0006 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Copper | | 0.015 | mg/L | 0.0003 | 0.0003 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Iron | | 0.015 | mg/L | 0.0008 | 0.0008 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Manganese | U | BDL | mg/L | 0.0001 | 0.0001 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 200.7/6010B |

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|------------|-----------------------|--------------|---------------|-------|-------------|--------------------------|---|---------|-------|---------|---------|-------------|
| 200900252 | GAGE# 07331600 | 1/18/2009 | 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Zinc | U | BDL | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| 200900252 | GAGE# 07331600 | | | | | METALS-TULSA: | | | | | | |
| | | 1/18/2009 | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Barium, Total | | 0.154 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Copper, Total | | 0.079 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Iron, Total | | 0.023 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Manganese, Total | | 0.022 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Zinc, Total | U | BDL | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 9:17 | OL | Selenium, Dissolved | U | BDL | mg/l | 0.00169 | 0.00169 | EPA_7440 |
| | | | 1/26/2009 | 10:48 | OL | Selenium | U | BDL | mg/l | 0.00169 | 0.00169 | EPA_7740 |
| | | | 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 1.7 | mg/l | 0.006 | 0.006 | 200.7/6010B |
| 200900252 | GAGE# 07331600 | | | | | SALTS-TULSA: | | | | | | |
| | | 1/18/2009 | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | | 118 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Magnesium, Dissolved | | 45.7 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Phosphorus, Total | | 0.16 | mg/L | 0.0096 | 0.0096 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | | 11.2 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | | 263 | mg/L | 0.0018 | 0.0018 | 200.7/6010B |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | | 464 | mg/l | 0.06 | 0.06 | 200.7/6010B |
| | | | 1/23/2009 | 11:52 | PR | Total Alkalinity | | 118 | mg/l | 2 | 2 | EPA_310.1 |
| | | | 2/3/2009 | 10:00 | JC | Chloride | | 200 | mg/l | 0.383 | 0.383 | SM4500-CL-B |
| | | | 1/18/2009 | 16:31 | JL | Dissolved Oxygen | | 8.89 | mg/l | 0.1 | 0.1 | EPA_360.1 |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | | 0.5 | mg/L | 0.04 | 0.04 | SM4500F-D |

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| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | Analyst | Parameter | Q | Results | Units | MDL | SQL | Method | |
|------------|-----------------------|--------------|----------------|-------|---------|----------------------------|--------|---------|-------------|-------------|--------|-------------|-------------|
| 200900252 | GAGE# 07331600 | 1/18/2009 | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 | SM_4500-NO | |
| | | | 1/18/2009 | 16:31 | JL | pH | | | 7.2 | s.u. | | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | | | 285 | mg/l | 1.2 | 1.2 | EPA_375.2 |
| | | | 1/21/2009 | 10:08 | SS | Total Dissolved Solids | | | 960 | mg/l | 5.5 | 5.5 | SM_2540C |
| | | | 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | U | BDL | mg/l | 0.4 | 0.4 | 0.4 | EPA_351.3M |
| | | | 1/20/2009 | 14:10 | SS | Total Suspended Solids | J | 4 | mg/l | 1.7 | 1.7 | 1.7 | SM 2540D |
| | | | 1/22/2009 | 13:25 | SS | Turbidity | | | 3.6 | NTU | 1 | 1 | 1 |
| 200900253 | GAGE# 07316000 | 1/18/2009 | METALS-TUL-D: | | | | | | | | | | |
| | | | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Barium | | | 0.1 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Copper | | | 0.023 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Iron | | | 0.013 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Manganese | | | 0.021 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | |
| 2/3/2009 | | JL | Dissolved Zinc | | | 0.006 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | | | |
| 200900253 | GAGE# 07316000 | 1/18/2009 | METALS-TULSA: | | | | | | | | | | |
| | | | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Barium, Total | | | 0.104 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Copper, Total | | | 0.096 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Iron, Total | | | 0.087 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Manganese, Total | | | 0.05 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| 2/5/2009 | | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B | | | | |

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|------------|-----------------------------|--------------|---------------|-------|------|----------------------------|---|---------|-------|---------|---------|-------------|
| 200900253 | GAGE# 07316000 | 1/18/2009 | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Zinc, Total | | 0.009 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 9:30 | OL | Selenium, Dissolved | U | BDL | mg/l | 0.00169 | 0.00169 | EPA_7440 |
| | | | 1/26/2009 | 11:43 | OL | Selenium | < | 0.00507 | mg/l | 0.00169 | 0.00507 | EPA_7740 |
| | | | 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 0.96 | mg/l | 0.006 | 0.006 | 200.7/6010B |
| 200900253 | GAGE# 07316000 | | | | | SALTS-TULSA: | | | | | | |
| | | 1/18/2009 | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | | 375 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Magnesium, Dissolved | | 112 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Phosphorus, Total | | 0.26 | mg/L | 0.0096 | 0.0096 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | | 23.8 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | | 2140 | mg/L | 0.0018 | 0.0018 | 200.7/6010B |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | | 1732 | mg/l | 0.06 | 0.06 | 200.7/6010B |
| | | | 1/23/2009 | 11:52 | PR | Total Alkalinity | | 170 | mg/l | 2 | 2 | EPA_310.1 |
| | | | 2/3/2009 | 10:00 | JC | Chloride | | 1600 | mg/l | 0.383 | 0.383 | SM4500-CL-B |
| | | | 1/18/2009 | 17:40 | JL | Dissolved Oxygen | | 9.14 | mg/l | 0.1 | 0.1 | EPA_360.1 |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | | 0.96 | mg/L | 0.04 | 0.04 | SM4500F-D |
| | | | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 | SM_4500-NO |
| | | | 1/18/2009 | 17:40 | JL | pH | | 7.6 | s.u. | | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | | 800 | mg/l | 1.2 | 1.2 | EPA_375.2 |
| | | | 1/21/2009 | 10:08 | SS | Total Dissolved Solids | | 4246 | mg/l | 5.5 | 5.5 | SM_2540C |
| | | | 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | U | BDL | mg/l | 0.4 | 0.4 | EPA_351.3M |
| | | | 1/20/2009 | 14:10 | SS | Total Suspended Solids | | 18 | mg/l | 1.7 | 1.7 | SM 2540D |
| | | | 1/22/2009 | 13:25 | SS | Turbidity | | 8.2 | NTU | 1 | 1 | EPA_180.1 |
| 200900254 | GAGE# 07316000 DUPLICATE | | | | | METALS-TUL-D: | | | | | | |
| | | 1/18/2009 | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Barium | | 0.09 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |

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|------------|-----------------------------|--------------|--------------------------|-------|---------|---------------------|---------|---------|-------------|---------|---------|-------------|
| 200900254 | GAGE# 07316000 DUPLICATE | 1/18/2009 | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Copper | | 0.02 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Iron | | 0.009 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Manganese | | 0.021 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Zinc | | 0.005 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| 200900254 | GAGE# 07316000 DUPLICATE | 1/18/2009 | METALS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Barium, Total | | 0.108 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Copper, Total | | 0.098 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Iron, Total | | 0.082 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Manganese, Total | | 0.05 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Zinc, Total | | 0.009 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 9:39 | OL | Selenium, Dissolved | < | 0.00507 | mg/l | 0.00169 | 0.00507 | EPA_7440 |
| 1/26/2009 | 11:04 | OL | Selenium | < | 0.00507 | mg/l | 0.00169 | 0.00507 | EPA_7740 | | | |
| 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 0.96 | mg/l | 0.006 | 0.006 | 200.7/6010B | | | |
| 200900254 | GAGE# 07316000 DUPLICATE | 1/18/2009 | SALTS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | | 355 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |

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 #: W912BV07-P-0189

Date Received: 1/19/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | By | Parameter | Q | Results | Units | MDL | SQL Method |
|------------|-----------------------------|--------------|---------------|-------|------|----------------------------|---|---------|-------|--------|--------------------|
| 200900254 | GAGE# 07316000 DUPLICATE | 1/18/2009 | 2/5/2009 | | JL | Magnesium, Dissolved | | 108.8 | mg/L | 0.0006 | 0.0006 200.7/6010B |
| | | | 2/5/2009 | | JL | Phosphorus, Total | | 0.27 | mg/L | 0.0096 | 0.0096 200.7/6010B |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | | 23.3 | mg/L | 0.0009 | 0.0009 200.7/6010B |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | | 2058 | mg/L | 0.0018 | 0.0018 200.7/6010B |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | | 1427 | mg/l | 0.06 | 0.06 200.7/6010B |
| | | | 1/23/2009 | 16:00 | PR | Total Alkalinity | | 158 | mg/l | 2 | 2 EPA_310.1 |
| | | | 2/3/2009 | 10:00 | JC | Chloride | | 1650 | mg/l | 0.383 | 0.383 SM4500-CL-B |
| | | | 1/18/2009 | 17:50 | JL | Dissolved Oxygen | | 9.3 | mg/l | 0.1 | 0.1 EPA_360.1 |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | | 0.84 | mg/L | 0.04 | 0.04 SM4500F-D |
| | | | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 SM_4500-NO |
| | | | 1/18/2009 | 17:50 | JL | pH | | 7.6 | s.u. | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | | 800 | mg/l | 1.2 | 1.2 EPA_375.2 |
| | | | 1/21/2009 | 10:08 | SS | Total Dissolved Solids | | 4204 | mg/l | 5.5 | 5.5 SM_2540C |
| | | | 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | U | BDL | mg/l | 0.4 | 0.4 EPA_351.3M |
| | | | 1/20/2009 | 14:10 | SS | Total Suspended Solids | | 17.6 | mg/l | 1.7 | 1.7 SM 2540D |
| | | | 1/22/2009 | 13:25 | SS | Turbidity | | 7.8 | NTU | 1 | 1 EPA_180.1 |
| 200900255 | GAGE# 07312100 | | | | | METALS-TUL-D: | | | | | |
| | | 1/19/2008 | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Barium | | 0.083 | mg/L | 0.0006 | 0.0006 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Copper | | 0.018 | mg/L | 0.0003 | 0.0003 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Iron | | 0.033 | mg/L | 0.0008 | 0.0008 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Manganese | | 0.197 | mg/L | 0.0001 | 0.0001 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Zinc | | 0.005 | mg/L | 0.0006 | 0.0006 200.7/6010B |

Susie Southwell

Laboratory Authorized Signature



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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 #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

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.

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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 Lab 200900255 and 200900256.

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TULSA, OK 74128-4609

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Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | By | Parameter | Q | Results | Units | MDL | SQL | Method |
|------------|-----------------------|--------------|------------------------|-------|------|----------------------------|--------|---------|-------------|---------|---------|-------------|
| 200900256 | GAGE# 07311900 | 1/19/2008 | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 9:46 | OL | Selenium, Dissolved | < | 0.00507 | mg/l | 0.00169 | 0.00507 | EPA_7440 |
| | | | 1/26/2009 | 11:47 | OL | Selenium | < | 0.0169 | mg/l | 0.00169 | 0.0169 | EPA_7740 |
| | | | 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 3.93 | mg/l | 0.006 | 0.006 | 200.7/6010B |
| 200900256 | GAGE# 07311900 | 1/19/2008 | SALTS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | | 858 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Magnesium, Dissolved | | 158 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Phosphorus, Total | | 0.27 | mg/L | 0.0096 | 0.0096 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | | 46.7 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | | 7231 | mg/L | 0.0018 | 0.0018 | 200.7/6010B |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | | 2875 | mg/l | 0.06 | 0.06 | 200.7/6010B |
| | | | 1/23/2009 | 16:00 | PR | Total Alkalinity | | 136 | mg/l | 2 | 2 | EPA_310.1 |
| | | | 2/3/2009 | 10:00 | JC | Chloride | | 5600 | mg/l | 0.383 | 0.383 | SM4500-CL-B |
| | | | 1/19/2009 | 11:45 | JL | Dissolved Oxygen | | 9.91 | mg/l | 0.1 | 0.1 | EPA_360.1 |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | | 1.38 | mg/L | 0.04 | 0.04 | SM4500F-D |
| | | | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 | SM_4500-NO |
| | | | 1/19/2009 | 11:45 | JL | pH | | 8.1 | s.u. | | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | | 2600 | mg/l | 1.2 | 1.2 | EPA_375.2 |
| | | | 1/21/2009 | 10:08 | SS | Total Dissolved Solids | | 13744 | mg/l | 5.5 | 5.5 | SM_2540C |
| | | | 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | U | BDL | mg/l | 0.4 | 0.4 | EPA_351.3M |
| 1/20/2009 | 14:10 | SS | Total Suspended Solids | U | BDL | mg/l | 1.7 | 1.7 | SM 2540D | | | |
| 1/22/2009 | 13:25 | SS | Turbidity | | 3 | NTU | 1 | 1 | EPA_180.1 | | | |
| 200900257 | GAGE# 07311800 | 1/19/2008 | METALS-TUL-D: | | | | | | | | | |
| | | | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Barium | | 0.05 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Copper | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| 2/3/2009 | | JL | Dissolved Iron | | 0.34 | mg/L | 0.0008 | 0.0008 | 200.7/6010B | | | |

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TULSA DISTRICT CORPS OF ENGINEERS
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TULSA, OK 74128-4609

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Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | By | Parameter | Q | Results | Units | MDL | SQL Method | |
|------------|-----------------------|--------------|--------------------------|-------|--------|----------------------|---------|---------|-------------|---------|--------------------|-------------|
| 200900257 | GAGE# 07311800 | 1/19/2008 | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Manganese | | 0.03 | mg/L | 0.0001 | 0.0001 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Zinc | | 0.05 | mg/L | 0.0006 | 0.0006 200.7/6010B | |
| 200900257 | GAGE# 07311800 | 1/19/2008 | METALS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Barium, Total | | 0.05 | mg/L | 0.0006 | 0.0006 200.7/6010B | |
| | | | 2/5/2009 | | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Copper, Total | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B | |
| | | | 2/5/2009 | | JL | Iron, Total | | 0.2 | mg/L | 0.0008 | 0.0008 200.7/6010B | |
| | | | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Manganese, Total | | 0.03 | mg/L | 0.0001 | 0.0001 200.7/6010B | |
| | | | 2/5/2009 | | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 200.7/6010B | |
| | | | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B | |
| | | | 2/5/2009 | | JL | Zinc, Total | | 0.05 | mg/L | 0.0006 | 0.0006 200.7/6010B | |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 9:49 | OL | Selenium, Dissolved | < | 0.00845 | mg/l | 0.00169 | 0.00845 | EPA_7440 |
| 1/26/2009 | 12:23 | OL | Selenium | < | 0.0169 | mg/l | 0.00169 | 0.0169 | EPA_7740 | | | |
| 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 3.4 | mg/l | 0.006 | 0.006 | 200.7/6010B | | | |
| 200900257 | GAGE# 07311800 | 1/19/2008 | SALTS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | | 1269 | mg/L | 0.0039 | 0.0039 200.7/6010B | |
| | | | 2/5/2009 | | JL | Magnesium, Dissolved | | 472 | mg/L | 0.0006 | 0.0006 200.7/6010B | |
| | | | 2/5/2009 | | JL | Phosphorus, Total | | 1.8 | mg/L | 0.0096 | 0.0096 200.7/6010B | |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | | 54.1 | mg/L | 0.0009 | 0.0009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | | 7513 | mg/L | 0.0018 | 0.0018 200.7/6010B | |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | | 5035 | mg/l | 0.06 | 0.06 | 200.7/6010B |
| 1/23/2009 | 16:00 | PR | Total Alkalinity | | 182 | mg/l | 2 | 2 | EPA_310.1 | | | |

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|------------|-----------------------|--------------|------------------|-------|---------|----------------------------|--------|--------------------|-------|--------|--------------------|-----------|
| 200900257 | GAGE# 07311800 | 1/19/2008 | 2/3/2009 | 10:00 | JC | Chloride | | 8100 | mg/l | 0.383 | 0.383 SM4500-CL-B | |
| | | | 1/19/2009 | 13:14 | JL | Dissolved Oxygen | | 8.83 | mg/l | 0.1 | 0.1 EPA_360.1 | |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | | 1.21 | mg/L | 0.04 | 0.04 SM4500F-D | |
| | | | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 SM_4500-NO | |
| | | | 1/19/2009 | 13:14 | JL | pH | | 7.9 | s.u. | | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | | 3375 | mg/l | 1.2 | 1.2 EPA_375.2 | |
| | | | 1/21/2009 | 10:08 | SS | Total Dissolved Solids | | 18316 | mg/l | 5.5 | 5.5 SM_2540C | |
| | | | 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | U | BDL | mg/l | 0.4 | 0.4 EPA_351.3M | |
| | | | 1/20/2009 | 14:10 | SS | Total Suspended Solids | | 27.6 | mg/l | 1.7 | 1.7 SM 2540D | |
| | | | 1/22/2009 | 13:25 | SS | Turbidity | | 14.1 | NTU | 1 | 1 EPA_180.1 | |
| 200900258 | GAGE# 07311700 | 1/19/2008 | METALS-TUL-D: | | | | | | | | | |
| | | | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Barium | | 0.02 | mg/L | 0.0006 | 0.0006 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Copper | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Iron | | 0.1 | mg/L | 0.0008 | 0.0008 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Manganese | | 0.01 | mg/L | 0.0001 | 0.0001 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 200.7/6010B | |
| 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B | | | | |
| 2/3/2009 | | JL | Dissolved Zinc | | 0.02 | mg/L | 0.0006 | 0.0006 200.7/6010B | | | | |
| 200900258 | GAGE# 07311700 | 1/19/2008 | METALS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Barium, Total | | 0.03 | mg/L | 0.0006 | 0.0006 200.7/6010B | |
| | | | 2/5/2009 | | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Copper, Total | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B | |
| 2/5/2009 | | JL | Iron, Total | | 0.14 | mg/L | 0.0008 | 0.0008 200.7/6010B | | | | |

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|------------|-----------------------|--------------|-------------------------|----------------|-----------|----------------------------|-----|---------|------------|---------|--------------------|-------------|
| 200900258 | GAGE# 07311700 | 1/19/2008 | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 200.7/6010B | |
| | | | 2/5/2009 | | JL | Manganese, Total | | 0.02 | mg/L | 0.0001 | 0.0001 200.7/6010B | |
| | | | 2/5/2009 | | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 200.7/6010B | |
| | | | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 200.7/6010B | |
| | | | 2/5/2009 | | JL | Zinc, Total | | 0.02 | mg/L | 0.0006 | 0.0006 200.7/6010B | |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 9:52 | OL | Selenium, Dissolved | < | 0.00845 | mg/l | 0.00169 | 0.00845 | EPA_7440 |
| | | | 1/26/2009 | 11:23 | OL | Selenium | < | 0.00845 | mg/l | 0.00169 | 0.00845 | EPA_7740 |
| | | | 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 3.85 | mg/l | 0.006 | 0.006 | 200.7/6010B |
| | | | 200900258 | GAGE# 07311700 | 1/19/2008 | SALTS-TULSA: | | | | | | |
| 2/5/2009 | 12:10 | JL | | | | Calcium, Dissolved | | 972 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Magnesium, Dissolved | | 240 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Phosphorus, Total | | 0.68 | mg/L | 0.0096 | 0.0096 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Potassium, Dissolved | | 33.1 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Sodium, Dissolved | | 5571 | mg/L | 0.0018 | 0.0018 | 200.7/6010B |
| 2/5/2009 | 12:10 | JL | | | | Total Hardness | | 3492 | mg/l | 0.06 | 0.06 | 200.7/6010B |
| 1/23/2009 | 16:00 | PR | | | | Total Alkalinity | | 126 | mg/l | 2 | 2 | EPA_310.1 |
| 2/3/2009 | 10:00 | JC | | | | Chloride | | 6050 | mg/l | 0.383 | 0.383 | SM4500-CL-B |
| 1/19/2009 | 13:40 | JL | | | | Dissolved Oxygen | | 9.14 | mg/l | 0.1 | 0.1 | EPA_360.1 |
| 1/26/2009 | 13:30 | MY/P | | | | Fluoride | | 1.23 | mg/L | 0.04 | 0.04 | SM4500F-D |
| 1/30/2009 | 14:00 | MY | | | | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 | SM_4500-NO |
| 1/19/2009 | 13:40 | JL | | | | pH | | 8.1 | s.u. | | | EPA_150.1 |
| 1/22/2009 | 9:50 | JC | | | | Sulfate | | 2850 | mg/l | 1.2 | 1.2 | EPA_375.2 |
| 1/22/2009 | 14:32 | SS | | | | Total Dissolved Solids | | 14074 | mg/l | 5.5 | 5.5 | SM_2540C |
| 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | | 1.68 | mg/l | 0.4 | 0.4 | EPA_351.3M | | | |
| 1/20/2009 | 14:10 | SS | Total Suspended Solids | | 9.6 | mg/l | 1.7 | 1.7 | SM 2540D | | | |
| 1/22/2009 | 13:25 | SS | Turbidity | | 17 | NTU | 1 | 1 | EPA_180.1 | | | |

200900259 GAGE# 07311630

METALS-TUL-D:

Susie Southwell

Laboratory Authorized Signature

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 #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | Analized By | Parameter | Q | Results | Units | MDL | SQL Method | |
|------------|-----------------------|--------------|--------------------------|-------|---------------------|--------------------|---------|---------|-------------|--------|-------------|-------------|
| 200900259 | GAGE# 07311630 | 1/19/2008 | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | JL | Dissolved Barium | | 0.02 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Copper | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Iron | | 0.06 | mg/L | 0.0008 | 0.0008 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Manganese | U | BDL | mg/L | 0.0001 | 0.0001 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | |
| | | | 2/3/2009 | JL | Dissolved Zinc | | 0.01 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | |
| 200900259 | GAGE# 07311630 | 1/19/2008 | METALS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | JL | Barium, Total | | 0.02 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Copper, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Iron, Total | | 0.08 | mg/L | 0.0008 | 0.0008 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Manganese, Total | U | BDL | mg/L | 0.0001 | 0.0001 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | |
| | | | 2/5/2009 | JL | Zinc, Total | | 0.015 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| 1/26/2009 | 9:55 | OL | Selenium, Dissolved | < | 0.00845 | mg/l | 0.00169 | 0.00845 | EPA_7440 | | | |
| 1/26/2009 | 11:26 | OL | Selenium | < | 0.00845 | mg/l | 0.00169 | 0.00845 | EPA_7740 | | | |
| 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 12.2 | mg/l | 0.006 | 0.006 | 200.7/6010B | | | |
| 200900259 | GAGE# 07311630 | 1/19/2008 | SALTS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | | 928 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |

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 #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

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 200900259 and Lab 200900260.

200900260 GAGE# 07311600

METALS-TULSA:

Susie Southwell

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Red River

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

Project #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | Analized By | Parameter | Q | Results | Units | MDL | SQL | Method | | |
|------------|-----------------------|--------------|---------------|----------------|-------------|----------------------------|---|--------------------------|-------|--------|--------|-------------|--------|-------------|
| 200900260 | GAGE# 07311600 | 1/19/2008 | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Barium, Total | | 0.02 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Copper, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Iron, Total | | 0.109 | mg/L | 0.0008 | 0.0008 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Manganese, Total | | 0.07 | mg/L | 0.0001 | 0.0001 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Nickel, Total | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | | |
| | | | 2/5/2009 | | JL | Zinc, Total | | 0.049 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | | |
| | | | 2/4/2009 | | 9:30 | pr | | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | | 10:30 | PR | | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | | 9:58 | OL | | Selenium, Dissolved | < | 0.0338 | mg/l | 0.00169 | 0.0338 | EPA_7440 |
| | | | 1/26/2009 | | 11:29 | OL | | Selenium | < | 0.0338 | mg/l | 0.00169 | 0.0338 | EPA_7740 |
| | | | 2/5/2009 | | 9:40 | JL | | Silicon Dioxide (silica) | | 7.27 | mg/l | 0.006 | 0.006 | 200.7/6010B |
| | | | 200900260 | GAGE# 07311600 | 1/19/2008 | SALTS-TULSA: | | | | | | | | |
| 2/5/2009 | 12:10 | JL | | | | Calcium, Dissolved | | 991 | mg/L | 0.0039 | 0.0039 | 200.7/6010B | | |
| 2/5/2009 | | JL | | | | Magnesium, Dissolved | | 23.8 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | | |
| 2/5/2009 | | JL | | | | Phosphorus, Total | | 0.59 | mg/L | 0.0096 | 0.0096 | 200.7/6010B | | |
| 2/5/2009 | | JL | | | | Potassium, Dissolved | | 38.1 | mg/L | 0.0009 | 0.0009 | 200.7/6010B | | |
| 2/5/2009 | | JL | | | | Sodium, Dissolved | | 7868 | mg/L | 0.0018 | 0.0018 | 200.7/6010B | | |
| 2/5/2009 | 12:10 | JL | | | | Total Hardness | | 3477 | mg/l | 0.06 | 0.06 | 200.7/6010B | | |
| 1/23/2009 | 16:00 | PR | | | | Total Alkalinity | | 138 | mg/l | 2 | 2 | EPA_310.1 | | |
| 2/3/2009 | 10:00 | JC | | | | Chloride | | 7300 | mg/l | 0.383 | 0.383 | SM4500-CL-B | | |
| 1/19/2009 | 15:32 | JL | | | | Dissolved Oxygen | | 9.84 | mg/l | 0.1 | 0.1 | EPA_360.1 | | |
| 1/26/2009 | 13:30 | MY/P | | | | Fluoride | | 1.48 | mg/L | 0.04 | 0.04 | SM4500F-D | | |
| 1/30/2009 | 14:00 | MY | | | | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 | SM_4500-NO | | |
| 1/19/2009 | 15:32 | JL | | | | pH | | 8.0 | s.u. | | | EPA_150.1 | | |
| 1/22/2009 | 9:50 | JC | | | | Sulfate | | 2800 | mg/l | 1.2 | 1.2 | EPA_375.2 | | |
| 1/22/2009 | 14:32 | SS | | | | Total Dissolved Solids | | 17198 | mg/l | 5.5 | 5.5 | SM_2540C | | |

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 #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL Method. Contains data for samples 200900260 and 200900261.

Susie Southwell

Laboratory Authorized Signature

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 #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | By | Parameter | Q | Results | Units | MDL | SQL Method | |
|------------|-----------------------|--------------|-------------------------|-------|------|----------------------------|-------|------------|-------------|---------|-----------------|-------------|
| 200900261 | GAGE# 07311782 | 1/19/2008 | 1/26/2009 | 10:01 | OL | Selenium, Dissolved | < | 0.0338 | mg/l | 0.00169 | 0.0338 EPA_7440 | |
| | | | 1/26/2009 | 11:32 | OL | Selenium | < | 0.0338 | mg/l | 0.00169 | 0.0338 EPA_7740 | |
| | | | 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | 4.49 | mg/l | 0.006 | 0.006 | 200.7/6010B | |
| 200900261 | GAGE# 07311782 | 1/19/2008 | SALTS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | 1520 | mg/L | 0.0039 | 0.0039 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Magnesium, Dissolved | 458 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Phosphorus, Total | 0.87 | mg/L | 0.0096 | 0.0096 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | 151 | mg/L | 0.0009 | 0.0009 | 200.7/6010B | |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | 24590 | mg/L | 0.0018 | 0.0018 | 200.7/6010B | |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | 6017 | mg/l | 0.06 | 0.06 | 200.7/6010B | |
| | | | 1/23/2009 | 16:00 | PR | Total Alkalinity | 114 | mg/l | 2 | 2 | EPA_310.1 | |
| | | | 2/3/2009 | 10:00 | JC | Chloride | 21600 | mg/l | 0.383 | 0.383 | SM4500-CL-B | |
| | | | 1/19/2009 | 16:43 | JL | Dissolved Oxygen | 11.17 | mg/l | 0.1 | 0.1 | EPA_360.1 | |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | 1.6 | mg/L | 0.04 | 0.04 | SM4500F-D | |
| | | | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 | SM_4500-NO |
| | | | 1/19/2009 | 16:43 | JL | pH | 7.8 | s.u. | | | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | 3125 | mg/l | 1.2 | 1.2 | EPA_375.2 | |
| | | | 1/22/2009 | 14:32 | SS | Total Dissolved Solids | 39634 | mg/l | 5.5 | 5.5 | SM_2540C | |
| 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | 1.4 | mg/l | 0.4 | 0.4 | EPA_351.3M | | | | |
| 1/23/2009 | 14:45 | SS | Total Suspended Solids | 5.2 | mg/l | 1.7 | 1.7 | SM 2540D | | | | |
| 1/22/2009 | 13:25 | SS | Turbidity | 2.5 | NTU | 1 | 1 | EPA_180.1 | | | | |
| 200900262 | GAGE# 07311783 | 1/19/2008 | METALS-TUL-D: | | | | | | | | | |
| | | | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Barium | 0.03 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Copper | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Iron | 0.31 | mg/L | 0.0008 | 0.0008 | 200.7/6010B | |
| 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B | | | |

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 #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | Analyst | Parameter | Q | Results | Units | MDL | SQL Method |
|------------|-----------------------|--------------|--------------------------|----------|---------|----------------------|----------|-------------|---------|--------|-------------|
| 200900262 | GAGE# 07311783 | 1/19/2008 | 2/3/2009 | | JL | Dissolved Manganese | 0.47 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Silver | U BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Zinc | 0.15 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| 200900262 | GAGE# 07311783 | 1/19/2008 | METALS-TULSA: | | | | | | | | |
| | | | 2/5/2009 | 9:40 | JL | Arsenic, Total | U BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Barium, Total | 0.03 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Cadmium, Total | U BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Chromium, Total | U BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Copper, Total | U BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Iron, Total | 1.2 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Lead, Total | U BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Manganese, Total | 0.5 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Nickel, Total | U BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Silver, Total | U BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Zinc, Total | 0.16 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 10:35 | OL | Selenium, Dissolved | < 0.0338 | mg/l | 0.00169 | 0.0338 | EPA_7440 |
| 1/26/2009 | 11:36 | OL | Selenium | < 0.0338 | mg/l | 0.00169 | 0.0338 | EPA_7740 | | | |
| 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | 9.84 | mg/l | 0.006 | 0.006 | 200.7/6010B | | | |
| 200900262 | GAGE# 07311783 | 1/19/2008 | SALTS-TULSA: | | | | | | | | |
| | | | 2/5/2009 | 12:10 | JL | Calcium, Dissolved | 1685 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Magnesium, Dissolved | 446 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Phosphorus, Total | 0.96 | mg/L | 0.0096 | 0.0096 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Potassium, Dissolved | 122 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Sodium, Dissolved | 20790 | mg/L | 0.0018 | 0.0018 | 200.7/6010B |
| | | | 2/5/2009 | 12:10 | JL | Total Hardness | 6088 | mg/l | 0.06 | 0.06 | 200.7/6010B |
| | | | 1/23/2009 | 16:00 | PR | Total Alkalinity | 154 | mg/l | 2 | 2 | EPA_310.1 |
| 2/3/2009 | 10:00 | JC | Chloride | 17600 | mg/l | 0.383 | 0.383 | SM4500-CL-B | | | |

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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 #: W912BV07-P-0189

Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | Analyst | Parameter | Q | Results | Units | MDL | SQL Method | |
|------------|-----------------------|--------------|------------------|-------|---------|----------------------------|--------|---------|-------------|--------|----------------|-------------|
| 200900262 | GAGE# 07311783 | 1/19/2008 | 1/19/2009 | 16:50 | JL | Dissolved Oxygen | | 9.24 | mg/l | 0.1 | 0.1 EPA_360.1 | |
| | | | 1/26/2009 | 13:30 | MY/P | Fluoride | | 1.62 | mg/L | 0.04 | 0.04 SM4500F-D | |
| | | | 1/30/2009 | 14:00 | MY | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 SM_4500-NO | |
| | | | 1/19/2009 | 16:50 | JL | pH | | 7.7 | s.u. | | | EPA_150.1 |
| | | | 1/22/2009 | 9:50 | JC | Sulfate | | 3000 | mg/l | 1.2 | 1.2 EPA_375.2 | |
| | | | 1/22/2009 | 14:32 | SS | Total Dissolved Solids | | 34652 | mg/l | 5.5 | 5.5 SM_2540C | |
| | | | 1/21/2009 | 9:00 | PR | Total Kjeldahl Nitrogen | J | 0.84 | mg/l | 0.4 | 0.4 EPA_351.3M | |
| | | | 1/23/2009 | 14:45 | SS | Total Suspended Solids | | 10.6 | mg/l | 1.7 | 1.7 SM 2540D | |
| | | | 1/22/2009 | 13:25 | SS | Turbidity | | 12.4 | NTU | 1 | 1 EPA_180.1 | |
| 200900263 | GAGE# 07308500 | 1/19/2008 | METALS-TUL-D: | | | | | | | | | |
| | | | 2/3/2009 | 10:30 | JL | Dissolved Arsenic | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Barium | | 0.055 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Cadmium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Chromium | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Copper | | 0.028 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Iron | | 0.023 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Lead | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Manganese | | 0.021 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/3/2009 | | JL | Dissolved Nickel | U | BDL | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| 2/3/2009 | | JL | Dissolved Silver | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B | | | |
| 2/3/2009 | | JL | Dissolved Zinc | | 0.03 | mg/L | 0.0006 | 0.0006 | 200.7/6010B | | | |
| 200900263 | GAGE# 07308500 | 1/19/2008 | METALS-TULSA: | | | | | | | | | |
| | | | 2/5/2009 | 9:40 | JL | Arsenic, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Barium, Total | | 0.071 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Cadmium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Chromium, Total | U | BDL | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Copper, Total | | 0.173 | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Iron, Total | | 0.067 | mg/L | 0.0008 | 0.0008 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Lead, Total | U | BDL | mg/L | 0.009 | 0.009 | 200.7/6010B |

Susie Southwell

Laboratory Authorized Signature

Red River

Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

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Date Received: 1/20/2009

Project Name: WATER QUALITY MONITORING

Report Date: 2/6/2009

| Lab Number | Sample Identification | Date Sampled | Analysis Date | Time | Analized By | Parameter | Q | Results | Units | MDL | SQL Method | |
|------------|-----------------------|--------------|---------------|----------------|-------------|----------------------------|---|---------|-----------|---------|------------|-------------|
| 200900263 | GAGE# 07308500 | 1/19/2008 | 2/5/2009 | | JL | Manganese, Total | | 0.033 | mg/L | 0.0001 | 0.0001 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Nickel, Total | | 0.009 | mg/L | 0.0069 | 0.0069 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Silver, Total | U | BDL | mg/L | 0.0003 | 0.0003 | 200.7/6010B |
| | | | 2/5/2009 | | JL | Zinc, Total | | 0.03 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| | | | 2/4/2009 | 9:30 | pr | Mercury, Dissolved | < | 0.0002 | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/28/2009 | 10:30 | PR | Mercury | U | BDL | mg/l | 0.0002 | 0.0002 | EPA_245.1 |
| | | | 1/26/2009 | 10:08 | OL | Selenium, Dissolved | < | 0.00845 | mg/l | 0.00169 | 0.00845 | EPA_7440 |
| | | | 1/26/2009 | 11:39 | OL | Selenium | < | 0.00845 | mg/l | 0.00169 | 0.00845 | EPA_7740 |
| | | | 2/5/2009 | 9:40 | JL | Silicon Dioxide (silica) | | 2.56 | mg/l | 0.006 | 0.006 | 200.7/6010B |
| | | | 200900263 | GAGE# 07308500 | 1/19/2008 | SALTS-TULSA: | | | | | | |
| 2/5/2009 | 12:10 | JL | | | | Calcium, Dissolved | | 496 | mg/L | 0.0039 | 0.0039 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Magnesium, Dissolved | | 129 | mg/L | 0.0006 | 0.0006 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Phosphorus, Total | | 0.23 | mg/L | 0.0096 | 0.0096 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Potassium, Dissolved | | 27.8 | mg/L | 0.0009 | 0.0009 | 200.7/6010B |
| 2/5/2009 | | JL | | | | Sodium, Dissolved | | 3176 | mg/L | 0.0018 | 0.0018 | 200.7/6010B |
| 2/5/2009 | 12:10 | JL | | | | Total Hardness | | 1931 | mg/l | 0.06 | 0.06 | 200.7/6010B |
| 1/23/2009 | 16:00 | PR | | | | Total Alkalinity | | 148 | mg/l | 2 | 2 | EPA_310.1 |
| 2/3/2009 | 10:00 | JC | | | | Chloride | | 1550 | mg/l | 0.383 | 0.383 | SM4500-CL-B |
| 1/19/2009 | 10:27 | JL | | | | Dissolved Oxygen | | 10.2 | mg/l | 0.1 | 0.1 | EPA_360.1 |
| 1/26/2009 | 13:30 | MY/P | | | | Fluoride | | 1.27 | mg/L | 0.04 | 0.04 | SM4500F-D |
| 1/30/2009 | 14:00 | MY | | | | Nitrate/nitrite As Nitroge | U | BDL | mg/l | 1.2 | 1.2 | SM_4500-NO |
| 1/19/2009 | 10:27 | JL | | | | pH | | 8.1 | s.u. | | | EPA_150.1 |
| 1/22/2009 | 9:50 | JC | | | | Sulfate | | 1400 | mg/l | 1.2 | 1.2 | EPA_375.2 |
| 1/22/2009 | 14:32 | SS | | | | Total Dissolved Solids | | 6684 | mg/l | 5.5 | 5.5 | SM_2540C |
| 1/21/2009 | 9:00 | PR | | | | Total Kjeldahl Nitrogen | U | BDL | mg/l | 0.4 | 0.4 | EPA_351.3M |
| 1/23/2009 | 14:45 | SS | | | | Total Suspended Solids | | 11.6 | mg/l | 1.7 | 1.7 | SM 2540D |
| 1/22/2009 | 13:25 | SS | Turbidity | | 10.1 | NTU | 1 | 1 | EPA_180.1 | | | |

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Laboratory Authorized Signature



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Table with 11 columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q Results, Units, MDL, SQL Method

Note:

- 200900253: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200900254: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
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200900256: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
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200900258: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200900259: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200900260: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200900261: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200900262: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200900263: The higher detection limit on the selenium results is based on the sample being diluted 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.

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.

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