Wilcox Oil Company Superfund Site
Bristow, Creek County, Oklahoma


Date: 8/18/2020

# Ground Water Collection Field Form

Well ID: GW-13-119 Sample ID: GW-13-119 Sample Time: 0900

Casing diameter/type: 1" PVC
Well location: Wilcox Oil Superfund Site
Weather: Partly Cloudy 68°
Screened interval(s): 195' 119' midpoints
Sampling personnel: AS
Total depth:
Sampling method: ~~MP~~ Low-Flow
Initial depth to water (w/o pump): 16.68
Water level indicator: Heron
Final depth to water (w/o pump): 17.65
Water quality meter: YSI 556 MPS
Measuring point: **North side of casing**
Pump depth setting: 119'
Pump type/model: Monsoon

| | Δ < 1° C | Δ < 3% | Δ <10% | Δ <10% | Δ < 0.1 pH | Δ < 10 mV | Δ < 0.3 ft | < 1L/min | Δ < 10 NTU | | Parameter Stabilization Limits (3 consecutive readings) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Temp (°C) | Conductivity (mS/cm) or (µS/cm) | DO (%) | DO (mg/L) | pH | ORP (mV) | Water Level (feet btoc) | Flow Rate (L/min) or (mL/min) | Turbidity (NTU) | Purge Volume (L) or (mL) | Additional Comments |
| 0823 | 16.84 | 0.686 | 36.2 | 3.50 | 7.09 | -47.4 | 18.03 | 500 | 14.7 | | |
| 0826 | 16.96 | 0.699 | 32.2 | 3.01 | 7.10 | -46.2 | 18.59 | 500 | 15.0 | | |
| 0829 | 16.93 | 0.687 | 28.6 | 2.76 | 7.10 | -47.8 | 18.65 | 500 | 22.0 | | |
| 0832 | 16.95 | 0.661 | 28.5 | 2.75 | 7.09 | -58.0 | 18.78 | 500 | 25.1 | | |
| 0835 | 16.89 | 0.659 | 28.2 | 2.73 | 7.09 | -45.2 | 18.90 | 500 | 25.0 | | |
| 0838 | 17.09 | 0.642 | 26.8 | 2.57 | 7.07 | -36.5 | 18.75 | 400 | 25.2 | | |
| 0841 | 17.17 | 0.641 | 26.3 | 2.53 | 7.07 | -54.3 | 18.62 | 400 | 26.6 | | |
| 0844 | 16.85 | 0.646 | 27.2 | 2.64 | 7.06 | -58.7 | 18.62 | 400 | 29.6 | | |
| 0847 | 16.94 | 0.651 | 27.1 | 2.62 | 7.06 | -57.8 | 18.62 | 400 | 30.8 | | |
| 0850 | 17.01 | 0.659 | 27.8 | 2.68 | 7.06 | -60.9 | 18.63 | 400 | 32.7 | | |
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Note:
Parameter Stabilization Limits:
(3 consecutive readings) for percent difference type parameters
Percent difference formula =
ABS[((first reading - second reading)/first reading) x 100]
Ex: Readings 12, 16, 15, 13
((12-16)/12)*100 = 33% ((16-15)/16)*100 = 6%
((15-13)/15)*100 = 13% In example, stabilization has not occurred.

Analyses: (circle those collected and indicate the number of containers)

| | | |
|---|---|---|
| VOCs | Metals | Pesticides |
| SVOCS | Hexavalent Chromium | Aroclors |

90103639

Recorded By: AS

Wilcox Oil Company Superfund Site
Bristow, Creek County, Oklahoma

Page: 1 of 1
Date: 8/20/2020

# Ground Water Collection Field Form

Well ID: GW-13-195 Sample ID: GW-13-195 Sample Time: 1000

Casing diameter/type: 4" PVC
Screened interval(s): 119 and 195
Total depth: 200'
Initial depth to water (w/o pump): 16.84'
Final depth to water (w/o pump): 21.44
Measuring point: **North side of casing**

Well location: Wilcox Oil
Sampling personnel: JM, WG, AS
Sampling method: Low-flow
Water level indicator: Heron
Water quality meter: YSI 556 MPS
Pump depth setting: 190'

Weather: Sunny 72°
Pump type/model: Geosub

| | Δ < 1° C | Δ < 3% | Δ <10% | Δ <10% | Δ < 0.1 pH | Δ < 10 mV | Δ < 0.3 ft | < 1L/min | Δ < 10 NTU | | Parameter Stabilization Limits (3 consecutive readings) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Temp (°C) | Conductivity (mS/cm) or (µS/cm) | DO (%) | DO (mg/L) | pH | ORP (mV) | Water Level (feet btoc) | Flow Rate (L/min) or (mL/min) | Turbidity (NTU) | Purge Volume (L) or (mL) | Additional Comments |
| 0920 | 17.16 | 0.404 | 28.8 | 2.81 | 7.65 | 49.9 | 16.73 | 250 | 11.8 | | |
| 0925 | 17.74 | 0.582 | 37.1 | 3.52 | 7.43 | 49.3 | 17.10 | 300 | 7.35 | | |
| ~~0928~~ | | | | | | | | | | | Pulled up pump to improve flow |
| 0930 | 17.41 | 0.732 | 29.5 | 2.68 | 7.29 | 43.4 | 17.24 | 700 | 33.1 | | |
| 0940 | 17.24 | 0.745 | 41.7 | 4.02 | 7.55 | 48.9 | 20.41 | 600 | 39.0 | | - Water thick/Brown/Black |
| 0943 | 17.08 | 0.733 | 38.7 | 3.71 | 7.51 | 50.2 | 21.68 | 1000 | 37.3 | | → Possibly Bio-accumulation |
| 0947 | 17.32 | 0.724 | 38.8 | 3.71 | 7.40 | 50.7 | 24.26 | 1000 | 12.4 | | |
| 0950 | 17.31 | 0.722 | 38.7 | 3.71 | 7.38 | 50.5 | 25.96 | 1000 | 7.23 | | |
| 0953 | 17.26 | 0.721 | 38.7 | 3.71 | 7.37 | 49.7 | 26.66 | 1000 | 6.34 | | |
| 0956 | 17.11 | 0.720 | 39.5 | 3.79 | 7.38 | 49.0 | 26.23 | 1000 | 3.04 | | |

Note:
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(3 consecutive readings) for percent difference type parameters
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ABS[((first reading - second reading)/first reading) x 100]
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((12-16)/12)*100 = 33% ((16-15)/16)*100 = 6%
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Analyses: (circle those collected and indicate the number of containers)

| | | |
|---|---|---|
| VOCs | Metals | Pesticides |
| SVOCS | Hexavalent Chromium | Aroclors |

Recorded By: [signature]