

MAY 16 1996 01:04PM

SOURCE:

MULTISITE HYDROGEOLOGICAL
INVESTIGATION, SEPT. 1996

Well PW-1 Sheet 1

WELL DEVELOPMENT FIELD DATA

Well ID PW-1
Project SPR - Bayou (Mottar)
Project No. 12-01226-201
Date(s) Developed 3-25-96
Personnel RNK
Initial
Rig Used
Operator
Pump/Bailer (Type)
(Capacity)
Water Source
Well Depth (Initial) 4.79 ft
Level (Final) ft
Water Level (Initial) 18.54 ft
Depth (Final) ft

Date Installed 3-19-96
Well Diameter 2"
Screen Intervals 15 ft to 5 ft
Annulus Diameter 3 1/4 in
Casing Height 3 ft (above GL)
Purge Volumes
Purge Water (Dev.) gal X 3
Total Minimum purge volume gal
Total Volume Purged 34 gal
Volume Measured By
Additives
Surge Technique

Time	Volume of Water Removed	pH	Specific Conductance at 25°C (X 1000)	Temperature	Turbidity	Other Physical Characteristics (Clarity, Odor, Particulates, Color)
1040	Initial	6.0	18.82	72.9		Grey very silty water
1100	11	5.84	19.70	72.9		" "
1113	Dry (22)	6.01	19.53	77.0		Grey silty water
1246	Initial	5.61	19.74	78.2		" "
1249	7	5.70	19.37	77.9		" "
1415	Initial	5.86	19.27	77.6		" "
1424	7	5.69	19.80	75.4		" "

Equipment Calibration

Comments PID - WH-0 BK-0 B2-0
1630 Silica sand 17-4 Bentonite 4-1
Grat F-0

Checked By:

Date:

MAY 16 '96 01:04PM

Well Pw-2

Sheet 01

WELL DEVELOPMENT FIELD DATA

Well ID Pw-2 Date Installed 3/19-96
 Project SPP - Bayou Green Channel Well Diameter 12"
 Project No. 12 01226 001 Screen Intervals
 Date(s) Developed 3-26-96 21 ft to 11 ft
 Personnel _____ ft to _____ ft
 _____ ft to _____ ft
 Initial _____
 Rig Used _____ Annulus Diameter 3 3/4 in
 Operator _____ Casing Height 3 ft (above GL)
 Pump/Seller (Type) _____ Surge Volumes
 (Capacity) _____
 Water Source _____
 Well Depth (Initial) 29.80 ft
 (Final) _____ ft
 Water Level (Initial) 4.85 ft
 (Final) _____ ft
 Additives _____
 Surge Technique _____

Time	Volume of Water Removed	pH	Specific Conductance at 25°C	Temperature	Turbidity	Other Physical Characteristics (Clarity, Odor, Particulates, Color)
1400	Initial	6.31	ADL	60.4		clear/cloudy water
1427	18	6.42	ADL	61.6		Brown Silty water
1507	36	6.45	ADL	62.0		clear/cloudy water
1545	52	6.37	ADL	61.6		clear water

Equipment Calibration *ADL - ABOVE DETECTABLE LIMIT < 20,000 MICROMHO

Comments PIP WH-0 BK-0 BZ-0
16-30 silica sand 23-9 Super sand 9-8
Bentonite 8-5 Grout 5-0

Checked By: _____

Date: _____

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P-4

Well PW-4 Sheet of

WELL DEVELOPMENT FIELD DATA

Well ID PW-4 Date Installed 3-18-96
 Project SPR - Bayou Chetaw Well Diameter 2"
 Project No. 12 01220 001 Screen Intervals
 Date(s) Developed 3-26-96 18 ft to 8 ft
 Personnel RDK ft to ft
 ft to ft
 Initial
 Rig Used Annulus Diameter 8x4 in
 Operator Casing Weight 3 ft (above GL)
 Pump/Boiler (Type) Purge Volumes
 (Capacity) Purge Water (Gv.) gal X 5
 Water Source Total Minimum purge volume gal
 Well Depth (Initial) 2137 ft Total Volume Purged 32 gal
 (Final) ft Volume Measured By
 Water Level (Initial) 8.32 ft Additives
 (Final) ft Surge Technique

Time	Volume of Water Removed	pH	Specific Conductance (at 25°C) (x1000)	Temperature	Turbidity	Other Physical Characteristics (Clarity, Odor, Particulates, Color)
1447	Initial	6.70	6.990	58.5		clear water
1510	10	7.00	5.100	61.6		grey very silty water
1540	20	6.86	5.950	61.3		"
1620	32	6.84	6.680	62.7		"

Equipment Calibration

Comments PIP WH-0 BK-0 B2-0
16-30 Silica sand 20-6 sugarsand 6-5
Bentonite 5-2 Grout 2-0

Checked By: Date:

MAY 16 '96 01:05PM

P.5

Well PWS Sheet 01

WELL DEVELOPMENT FIELD DATA

Well ID PWS
 Project SPR Bayou Chautau
 Project No. 12-01226-001
 Date(s) Developed 3-28-96
 Personnel BK
 Initial _____
 Rig Used _____
 Operator _____
 Pump/Seller (Type) _____
 (Capacity) _____
 Water Source _____
 Well Depth (Initial) 19.69 ft
 (Final) _____ ft
 Water Level (Initial) 9.01 ft
 (Final) _____ ft

Date Installed 3-20-96
 Well Diameter 2"
 Screen Intervals
 _____ ft to _____ ft
 _____ ft to _____ ft
 _____ ft to _____ ft
 Annulus Diameter 8 1/4 in
 Casing Height 3 ft (above GL)
 Surge Volumes
 Surge Water (Dev.) _____ gal X 5
 Total Minimum purge volume _____ gal
 Total Volume Purged 31 gal
 Volume Measured By _____
 Additives _____
 Surge Technique _____

Time	Volume of Water Removed	pH	Specific Conductance at 25°C	Temperature	Turbidity	Other Physical Characteristics (Clarity, Color, Particulates, Odor)
1812 Initial	6.27	ADL	60.3			Brown silty water
1830 PWS(10)	6.28	ADL	64.9			Brown slightly silty water
715 Initial	6.00	ADL	59.5			" "
735 PWS(9)	5.35	ADL	64.3			" "
815 Initial	13.75	ADL	70.0			" "
825 Dry(8)	13.98	ADL	67.5			" "

Equipment Calibration *ADL - ABOVE DETECTABLE LIMIT < 20,000 MICROMMHOS

Comments PWD - WH - 0 BK - 0 BZ - 0
16-30 Silica sand 19-5 Bentonite 5-2-
Grout 2-0-

Checked By: _____ Date: _____

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P 6

Well PW-6 Sheet of

WELL DEVELOPMENT FIELD DATA

Well ID PW-6 Date Installed 3-20-96/3-24-96
 Project SPR-12-01226 001 Well Diameter 7"
 Project No. SPR Bayer Choke flow Screen Intervals
 Date(s) Developed 3-25-96 15' to 5'
 Personnel PK to
 Initial to
 Rig Used Annulus Diameter 8 1/4"
 Operator Casing Height 3' ft (above GL)
 Pump/Bailer (Type) Purge Volumes
 (Capacity) Purge Water (Dev.) gal X 5
 Water Source Total Minimum purge volume gal
 Well Depth (Initial) 1700' Total Volume Purged 31 gal
 (Final) Volume Measured By
 Water Level (Initial) 650' Additives
 (Final) Surge Technique

Time	Volume of Water Removed	pH	Specific Conductance at 25°C	Temperature	Turbidity	Other Physical Characteristics (Clarity, Color, Particulates, Odor)
1515	Initial	7.31	ADL	72.8		grey silty water
1532	10	6.16	ADL	70.6		" "
1543	20	6.16	ADL	69.9		" "
1554	31	6.25	ADL	69.0		" "

Equipment Calibration ADL-ABOVE DETECTABLE LIMIT-20,000 MICROMHO/CM

Comments PTD- WH-0 BK-0 BZ-0
16-30 Silica sand 17-4 Bentonite 4-2
GROUT 2-0

Checked By: Date:

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Well PW-7 Sheet of

WELL DEVELOPMENT FIELD DATA

Well ID PW-7
 Project SPR Bayou chataw
 Project No. 1201226 001
 Date(s) Developed 3-26-96
 Personnel PRK
 Initial
 Rig Used
 Operator
 Pump/Bailer (Type)
 (Capacity)
 Water Source
 Well Depth (Initial) 1740 ft
 (Final) ft
 Water Level (Initial) 9.78 ft
 (Final) ft

Date Installed 3-20-96
 Well Diameter 2
 Screen Intervals
15 ft to 5 ft
 ft to ft
 ft to ft
 Annulus Diameter 8 1/4 in
 Casing Height 3 ft (above GL)
 Purge Volumes
 Purge Water (Dev.) gal X 3
 Total Minimum purge volume gal
 Total Volume Purged 19 gal
 Volume Measured By
 Additives
 Surge Technique

Time	Volume of Water Removed	pH	Specific Conductance at 75°F	Temperature	Turbidity	Other Physical Characteristics (Clarity, Odor, Particulates, Color)
7:34	1m H ₂ O	8.36	ADL	59.3		
7:42	8	7.25	ADL	58.6		
7:51	12	7.20	ADL	59.2		
8:00	19	7.15	ADL	58.6		

Equipment Calibration ADL- ABOVE DETECTABLE LIMIT <20,000 MICROMMHS

Comments PDA WH-0 BK-0 BZ-0
16-30 s/lrca sand 17-4 Bentonite 4-2
Grout 2-0

Checked By: Date:

DATAWORKPLAN.WFLDEV.DOC

EnecoTech
 HYDRA-METAL CONSULTING

Well PW-8 Sheet of

WELL DEVELOPMENT FIELD DATA

Well ID PW-8 Date Installed 3-21-96
 Project SRR Bayou Choctaw Well Diameter
 Project No. 12 01226 001 Screen Intervals
 Date(s) Developed 3-26-96 16 ft to 6 ft
 Personnel DMK ft to ft
 ft to ft
 Initial
 Rig Used Annulus Diameter 8 1/4 in
 Operator Casing Height 3 ft (above GL)
 Pump/Sailer (Type) Purge Volumes
 (Capacity) gal X 3
 Water Source Total Minimum purge volume gal
 Well Depth (Initial) 12.02 ft Total Volume Purged 35 gal
 (Final) ft Volume Measured By
 Water Level (Initial) 6.78 ft Additives
 (Final) ft Surge Technique

Time	Volume of Water Retrieved	pH	Specific Conductance at 25°C (x 1000)	Temperature	Turbidity	Other Physical Characteristics (Clarity, Odor, Particulates, Color)
9:17 Initial	6.48	7.470	58.0			Brown very silty water
9:34 Dry (1)	6.57	9.000	60.4			Brown silty water
10:13 Initial	6.60	7.470	60.4			Brown slightly silty water
10:19 Dry (7)	6.48	7.140	60.3			" "
10:40 Initial	6.60	7.350	60.3			" "
10:57 Dry (6)	6.61	7.350	61.1			" "

Equipment Calibration

Comments PEP - WH-0 BK-0 B2-0
16-30 SRR sand 18-4 Bentonite 4-2
Good 2-0

Checked By: Date:

GROUND WATER SAMPLING FORM

Bayou CHOCTAW

GENERAL				
Well ID: <u>PW-1</u>	Project No.: _____			
Date Purged: _____	Date/Time Sampled: <u>4-22-96</u>			
Field Personnel: <u>Lincoln Burgess</u>				
Field Equipment: _____				
Sampling Method: <u> Bail </u>	Weather: <u> Cloudy Raining </u>			
WELL INFORMATION				
Well Diameter (in.): <u> 2 " </u>	General Condition: <u> good </u>			
Was well locked upon arrival? <u> NO </u>	Was well locked upon completion? <u> NO </u>			
WATER LEVEL AND PURGE VOLUME INFORMATION (Measurements in feet, tenths of feet and gallons.)				
All measurements taken from: <u> TOC </u>				
Depth to LNAPL below MP: _____	One purge volume (2" dia.) = $0.175 \times (A-B)$ <u> 2.71 </u>			
A. Depth to water below MP: <u> 4.39 </u>	One purge volume (4" dia.) = $0.6528 \times (A-B)$ _____			
B. Total well depth below MP: <u> 19.92 </u>	3 purge volumes = <u> 8.15 </u>			
WELL PURGING AND SAMPLE COLLECTION				
Approximate withdrawal rate: _____ gpm	Volume of water purged: <u> 8.5 </u> gallons			
pH meter: <u> 6.8 </u>	SC meter: <u> 10.99 x 100 </u>			
pH calibrated at buffer <u> 7.0 </u>	SC calibrated @ <u> 1000 </u> Date: <u> 4-22-96 </u>			
SAMPLE REPLICATE MEASUREMENTS:				
pH std. units	A) <u> 8.88 </u>	B) <u> 9.32 </u>	C) <u> 7.66 </u>	D) _____
SC $\mu\text{mhos/cm @ } 25^{\circ}\text{C}$	<u> * ADL </u>	<u> * ADL </u>	<u> * ADL </u>	_____
Temp. $^{\circ}\text{C}$	<u> 75.7 </u>	<u> 71.9 </u>	<u> 73.3 </u>	_____
CHAIN-OF-CUSTODY FORMS:				
COMMENTS: <u> ADL - ABOVE DETECTABLE LIMIT < 20,000-MICROMHOS </u>				

GROUND WATER SAMPLING FORM

GENERAL				
Well ID: <u>PW-2</u>	Project No.: <u> </u>			
Date Purged: <u> </u>	Date/Time Sampled: <u>4-22-96</u>			
Field Personnel: <u>LINCOLN BURGESS</u>				
Field Equipment: <u> </u>				
Sampling Method: <u>Bail</u>	Weather: <u>Cloudy chance of Rain</u>			
WELL INFORMATION				
Well Diameter (in.): <u>2"</u>	General Condition: <u>600 Ø</u>			
Was well locked upon arrival? <u>NO</u>	Was well locked upon completion? <u>NO</u>			
WATER LEVEL AND PURGE VOLUME INFORMATION (Measurements in feet, tenths of feet and gallons.)				
All measurements taken from: <u>TOC</u>				
Depth to LNAPL below MP: <u> </u>	One purge volume (2" dia.) = $0.175 \times (A-B)$ <u>3.75</u>			
A. Depth to water below MP: <u>4.39</u>	One purge volume (4" dia.) = $0.6528 \times (A-B)$ <u> </u>			
B. Total well depth below MP: <u>25.85</u>	3 purge volumes = <u>11.26</u>			
WELL PURGING AND SAMPLE COLLECTION				
Approximate withdrawal rate: <u> </u> gpm	Volume of water purged: <u>12</u> gallons			
pH meter: <u>6.8</u>	SC meter: <u>10.99 x 1000</u>			
pH calibrated at buffer <u>7.0</u>	SC calibrated @ <u>1000</u> Date: <u>4-22-96</u>			
SAMPLE REPLICATE MEASUREMENTS:				
pH std. units	A) <u>9.94</u>	B) <u>10.68</u>	C) <u>9.98</u>	D) <u> </u>
SC $\mu\text{mhos/cm @ } 25^\circ\text{C}$	<u><ADL</u>	<u><ADL</u>	<u><ADL</u>	<u> </u>
Temp. °C	<u>76</u>	<u>74.3</u>	<u>78.1</u>	<u> </u>
CHAIN-OF-CUSTODY FORMS:				
COMMENTS: <u><ADL = ABOVE DETECTABLE LIMIT < 20,000 MICROMHOS</u>				

GROUND WATER SAMPLING FORM

GENERAL				
Well ID: <u>PW-4</u>	Project No.: _____			
Date Purged: <u>4-22-96</u>	Date/Time Sampled: <u>4-22-96</u>			
Field Personnel: <u>LINCOLN BURGESS</u>				
Field Equipment: _____				
Sampling Method: <u>Bail</u>	Weather: <u>Cloudy Chance of Rain</u>			
WELL INFORMATION				
Well Diameter (in.): <u>2"</u>	General Condition: <u>Good</u>			
Was well locked upon arrival? <u>NO</u>	Was well locked upon completion? <u>NO</u>			
WATER LEVEL AND PURGE VOLUME INFORMATION (Measurements in feet, tenths of feet and gallons.)				
All measurements taken from: <u>TOC</u>				
Depth to LNAPL below MP: _____	One purge volume (2" dia.) = $0.175 \times (A-B)$ <u>1.93</u>			
A. Depth to water below MP: <u>7.24</u>	One purge volume (4" dia.) = $0.6528 \times (A-B)$ _____			
B. Total well depth below MP: <u>18.31</u>	3 purge volumes = <u>5.81</u>			
WELL PURGING AND SAMPLE COLLECTION				
Approximate withdrawal rate: _____ gpm	Volume of water purged: <u>6.0</u> gallons			
pH meter: <u>6.8</u>	SC meter: <u>10.94 x 100</u>			
pH calibrated at buffer <u>7.0</u>	SC calibrated @ <u>1000</u> Date: <u>4-22-96</u>			
SAMPLE REPLICATE MEASUREMENTS:				
pH std. units	A) <u>8.94</u>	B) <u>8.87</u>	C) <u>9.77</u>	D) _____
SC $\mu\text{mhos/cm @ } 25^\circ\text{C}$	<u>6.17 x 1000</u>	<u>4.55 x 1000</u>	<u>4.23 x 1000</u>	_____
Temp. $^\circ\text{C}$	<u>76</u>	<u>73.6</u>	<u>72.9</u>	_____
CHAIN-OF-CUSTODY FORMS: _____				
COMMENTS: _____				

GROUND WATER SAMPLING FORM

GENERAL				
Well ID:	<u>PW-5</u>	Project No.:		
Date Purged:		Date/Time Sampled:	<u>4-22-96</u>	
Field Personnel:	<u>Lincoln Borgess</u>			
Field Equipment:				
Sampling Method:	<u>Bail</u>	Weather:	<u>Cloudy chance of Rain</u>	
WELL INFORMATION				
Well Diameter (in.):	<u>2"</u>	General Condition:	<u>Good</u>	
Was well locked upon arrival?	<u>No</u>	Was well locked upon completion?	<u>No</u>	
WATER LEVEL AND PURGE VOLUME INFORMATION (Measurements in feet, tenths of feet and gallons.)				
All measurements taken from:	<u>TOC</u>			
Depth to LNAPL below MP:		One purge volume (2" dia.) = $0.175 \times (A-B)$	<u>2.43</u>	
A. Depth to water below MP:	<u>8.21</u>	One purge volume (4" dia.) = $0.6528 \times (A-B)$		
B. Total well depth below MP:	<u>22.10</u>	3 purge volumes =	<u>7.29</u>	
WELL PURGING AND SAMPLE COLLECTION				
Approximate withdrawal rate:		gpm	Volume of water purged:	<u>7.5</u> gallons
pH meter:	<u>6.8</u>	SC meter:	<u>10.94 x 100</u>	
pH calibrated at buffer	<u>7.0</u>	SC calibrated @	<u>1000</u> Date: <u>4-22-96</u>	
SAMPLE REPLICATE MEASUREMENTS:				
pH std. units	A) <u>9.12</u>	B) <u>10.84</u>	C) <u>10.86</u>	D)
SC $\mu\text{mhos/cm}$ @25°C	<u>ADL</u>	<u>ADL</u>	<u>ADL</u>	
Temp. °C	<u>76</u>	<u>72.6</u>	<u>74</u>	
CHAIN-OF-CUSTODY FORMS:				
COMMENTS: <u>NADL - ABOVE DETECTABLE LIMIT < 20,000 MICROMHOS</u>				

GROUND WATER SAMPLING FORM

GENERAL

Well ID: 11023 PW-6 Project No.: 12-01226-001
 Date Purged: 3-25-96 Date/Time Sampled: 4-22-96
~~4-22-96~~
 Field Personnel: LINCOLN BURGESS
 Field Equipment: ORS
 Sampling Method: Bail Weather: Cloudy chance of Rain

WELL INFORMATION

Well Diameter (in.): 2" General Condition: GOOD
 Was well locked upon arrival? NO Was well locked upon completion? NO

WATER LEVEL AND PURGE VOLUME INFORMATION (Measurements in feet, tenths of feet and gallons.)

All measurements taken from: TOC
 Depth to LNAPL below MP: _____ One purge volume (2" dia.) = $0.175 \times (A-B)$ 2.455
 A. Depth to water below MP: 6.00 One purge volume (4" dia.) = $0.6528 \times (A-B)$ _____
 B. Total well depth below MP: 20.03 3 purge volumes = 7.365

WELL PURGING AND SAMPLE COLLECTION

Approximate withdrawal rate: _____ gpm Volume of water purged: 7.5 gallons
 pH meter: 6.8 SC meter: 10.94 x 100
 pH calibrated at buffer 7.04 SC calibrated @ 1000 Date: 4-22-96

SAMPLE REPLICATE MEASUREMENTS:

pH std. units	A) <u>8.58</u>	B) <u>8.74</u>	C) <u>8.97</u>	D)
SC $\mu\text{mhos/cm}$ @25°C	<u>5.23 x 1000</u>	<u>4.34 x 1000</u>	<u>3.97 x 1000</u>	
Temp. °C	<u>75°</u>	<u>73°</u>	<u>72°</u>	

CHAIN-OF-CUSTODY FORMS:

COMMENTS:

GROUND WATER SAMPLING FORM

GENERAL				
Well ID: <u>HW-7 PW-7</u>		Project No.: _____		
Date Purged: _____		Date/Time Sampled: <u>4-22-96</u>		
Field Personnel: <u>LINCOLN BURGESS</u>				
Field Equipment: _____				
Sampling Method: <u>Bail</u>		Weather: <u>Cloudy chance of Rain</u>		
WELL INFORMATION				
Well Diameter (in.): <u>2"</u>		General Condition: <u>Good</u>		
Was well locked upon arrival? <u>NO</u>		Was well locked upon completion? <u>NO</u>		
WATER LEVEL AND PURGE VOLUME INFORMATION (Measurements in feet, tenths of feet and gallons.)				
All measurements taken from: <u>TOC</u>				
Depth to LNAPL below MP: _____		One purge volume (2" dia.) = $0.175 \times (A-B)$ <u>1.823</u>		
A. Depth to water below MP: <u>9.33</u>		One purge volume (4" dia.) = $0.6528 \times (A-B)$ _____		
B. Total well depth below MP: <u>19.75</u>		3 purge volumes = <u>5.47</u>		
WELL PURGING AND SAMPLE COLLECTION				
Approximate withdrawal rate: _____ gpm		Volume of water purged: <u>6.0</u> gallons		
pH meter: <u>7.08</u>		SC meter: <u>10.94 x 100</u>		
pH calibrated at buffer <u>7.0</u>		SC calibrated @ <u>1000</u> Date: <u>4-22-96</u>		
SAMPLE REPLICATE MEASUREMENTS:				
pH std. units	A) <u>9.38</u>	B) <u>10.73</u>	C) <u>10.81</u>	D) _____
SC $\mu\text{mhos/cm @ } 25^\circ\text{C}$	<u>2.27 x 1000</u>	<u>2.10 x 1000</u>	<u>2.10</u>	_____
Temp. $^\circ\text{C}$	<u>73.1 $^\circ\text{F}$</u>	<u>70.1</u>	<u>70.0</u>	_____
CHAIN-OF-CUSTODY FORMS: _____				
COMMENTS: _____				

Project Name: SPR - Bayou Choctaw
 Project Number: 12-01226-001
 Location: [REDACTED]
 Northing: Easting:
 Ground Surface Elev.:
 Property Owner/Contact:

Date(s) Drilled: 03/19/96
 Logged By: R. Knight
 Contractor: Layne
 Drill Rig/Method: Hollow Stem Auger
 Sampling Method: Continuous
 Borehole Diam.: 8-1/4" Drilling Fluid: None
 Depth to Water: 7' Total Depth: 17'
 Application: Testhole/Monitoring Well

Depth (ft)	Lithology	Samples	Color	Org. Vapor (ppm)	Penetration Resistance	Recovery %	USCS Code	Lithologic Description	Well Completion
0			DK BROWN	0	0.50	100	CL	0.0-3.0' Clay silty - dark brown to gray, soft, moist, roots.	
5			DK BROWN	0	0.50	100		3.0-8.0' Clay silty - dark brown to gray, moist, soft, root mass, iron deposits. Peat layer at 3.5'.	
10			DK BROWN	0	0.75	100		8.0-13.0' Clay silty - dark brown to gray, medium moist.	SCREEN
15			GRAY	0	0.50	100		13.0-17.0' Clay sandy - very fine grained, gray, soft, wet.	SUMP

122601P1.DWG

Comments: ☐ GROUT ☐ BENTONITE ☐ SAND
☒ STATIC WATER LEVEL

Project Name: SPR - Bayou Choctaw
Project Number: 12-01226-001
Location: [REDACTED]
Northing: Easting:
Ground Surface Elev.:
Property Owner/Contact:

Date(s) Drilled: 03/19/96
Logged By: R. Knight
Contractor: Layne
Drill Rig/Method: Hollow Stem Auger
Sampling Method: Continuous
Borehole Diam.: 8-1/4" Drilling Fluid: None
Depth to Water: 18' Total Depth: 23'
Application: Testhole/Monitoring Well

Depth (ft)	Lithology	Samples	Color	Org. Vapor (ppm)	Penetration Resistance	Recovery %	USCS Code	Lithologic Description	Well Completion
0.0-0.5'								Road base and clay.	
0.5-3.0'			BROWN	0	0.50	100	CL	Clay silty - brown to gray, medium moist, black organic material at 3'.	
3.0-8.0'			GRAY-BLK	5.0	0.25	5		Clay silty - sandy, very fine grained, gray-black, soft, moist, some roots.	
8.0-13.0'			GRAY	0	0.50	10		Clay silty - gray, medium moist, some roots.	SUGAR SAND
13.0-18.0'			GRAY	0	0.50	100		Clay silty - gray, medium moist, root mass.	SCREEN
18.0-22.0'			BROWN	0	0.25	100		Clay sandy - very fine grained, brown, soft, wet.	
22.0-23.0'			GRAY	0	0.50	100		Peat layer.	SUMP
23.0'								Clay silty - gray, medium moist.	

122601P2.CWG

Comments: ☒ GROUT ☒ BENTONITE ☐ SAND
☒ STATIC WATER LEVEL

Project Name: SPR - Bayou Choctaw
Project Number: 12-01226-001
Location: T R SEC QTR QTR
Northing: Easting:
Ground Surface Elev.:
Property Owner/Contact:

Date(s) Drilled: 03/18/96
Logged By: R. Knight
Contractor: Layne
Drill Rig/Method: Hollow Stem Auger
Sampling Method: Continuous
Borehole Diam.: 8-1/4" Drilling Fluid: None
Depth to Water: 13' Total Depth: 20'
Application: Testhole/Monitoring Well

Depth (ft)	Lithology	Samples	Color	Org. Vapor (ppm)	Penetration Resistance	Recovery %	USCS Code	Lithologic Description	Well Completion
0-3.0'	CL		DK BROWN	0	0.5	100	CL	Clay - silty, dark brown-gray, mottled, iron deposits, calcium nodules, moist, some roots. Peat layer at 3'.	
3.0-8.0'			DK GRAY	0	0.5	100		Clay silt - dark gray, brown mottling, some roots. SUGAR SAND	
8.0-13.0'			LT BROWN	0	0.5	100		Clay silt - light brown to gray, mottled, some roots.	
13.0-20.0'	ML		BLUE-GRY	0	0.5	100	ML	Silt sand - very fine grained, blue-gray, wet at 13', some roots, iron deposits.	

122601P4.DWG

Comments: ☐ GROUT ☐ BENTONITE ☐ SAND
☒ STATIC WATER LEVEL

Project Name: SPR - Bayou Choctaw
Project Number: 12-01226-001
Location: T R SEC QIR QIR
Northing: Easting:
Ground Surface Elev.:
Property Owner/Contact:

Date(s) Drilled: 03/20/96
Logged By: R. Knight
Contractor: Layne
Drill Rig/Method: Hollow Stem Auger
Sampling Method: Continuous
Borehole Diam.: 8-1/4" Drilling Fluid: None
Depth to Water: 10' Total Depth: 23'
Application: Testhole/Monitoring Well

Depth (ft)	Lithology	Samples	Color	Org. Vapor (ppm)	Penetration Resistance	Recovery %	USCS Code	Lithologic Description	Well Completion
0-5			BROWN	0	1.00	100	CL	0.0-3.0' Clay silty - brown to gray, medium, root mass, moist, iron deposits. Peat layer at 3'.	
5-8			BROWN	0	0.50	100		3.0-8.0' Clay silty - brown to gray, medium, mottled, moist, some iron deposits.	
8-13			GRAY	0	1.00	100		8.0-13.0' Clay silty - gray, brown mottling, medium, moist, root mass, iron deposits.	
13-18			GRAY	0	1.00	100		13.0-18.0' Clay silty - gray, medium, moist.	
18-23			GRAY-OLV	0	0.50	100	ML	18.0-23.0' Silt clayey - gray-olive, medium wet, root mass.	

SCREEN

SUMP

122601P5.DWG

Comments: ☐ GROUT ☐ BENTONITE ☐ SAND
☒ STATIC WATER LEVEL

Project Name: SPR - Bayou Choctaw

Project Number: 12-01226-001

Location: T R SEC QIR QIR

Northing: Easting:

Ground Surface Elev.:

Property Owner/Contact:

Date(s) Drilled: 03/20/96-03/21/96

Logged By: R. Knight

Contractor: Layne

Drill Rig/Method: Hollow Stem Auger

Sampling Method: Continuous

Borehole Diam.: 8-1/4" Drilling Fluid: None

Depth to Water: 10' Total Depth: 17'

Application: Testhole/Monitoring Well

Depth (ft)	Lithology	Samples	Color	Org. Vapor (ppm)	Penetration Resistance	Recovery %	USCS Code	Lithologic Description	Well Completion
0.0-7.0'				0	0.25	100	CL	Clay - silty, brown-gray, soft, mottled, root mass, moist.	
5			BROWN	0	0.50	100			
10			GRAY	0	0.50	100		7.0-12.0' Clay - silty, gray, medium, moist to wet root mass.	SCREEN
15			BROWN	0	0.50	100		12.0-17.0' Clay - sandy, very fine grained, medium, wet root mass.	SUMP
20									
25									

122601P6.DWG

Comments: ☐ GROUT ☐ BENTONITE ☐ SAND

☒ STATIC WATER LEVEL

Project Name: SPR - Bayou Choctaw

Project Number: 12-01226-001

Location: T R SEC QTR QTR

Northing: Easting:

Ground Surface Elev.:

Property Owner/Contact:

Date(s) Drilled: 03/20/96

Logged By: R. Knight

Contractor: Layne

Drill Rig/Method: Hollow Stem Auger

Sampling Method: Continuous

Borehole Diam.: 8-1/4" Drilling Fluid: None

Depth to Water: 9' Total Depth: 17'

Application: Testhole/Monitoring Well

Depth (ft)	Lithology	Samples	Color	Org. Vapor (ppm)	Penetration Resistance	Recovery %	USCS Code	Lithologic Description	Well Completion
0.0-8.0'			BROWN	0	0.25	20		Road base - brown/white.	
5				0	0.75	30			
8.0-17.0'			DK BROWN	0	0.25	30	CL	Clay - silty, dark brown-gray, soft, iron deposits.	
15				0	0.25	40			
				0	0.25	10			
20									
25									

SCREEN

SUMP

122601P7.DWG

Comments: ☐ GROUT ☐ BENTONITE ☐ SAND

☒ STATIC WATER LEVEL

Project Name: SPR - Bayou Choctaw
Project Number: 12-01226-001
Location: T R SEC QTR QTR
Northing: Easting:
Ground Surface Elev.:
Property Owner/Contact:

Date(s) Drilled: 03/21/96
Logged By: R. Knight
Contractor: Layne
Drill Rig/Method: Hollow Stem Auger
Sampling Method: Continuous
Borehole Diam.: 8-1/4" Drilling Fluid: None
Depth to Water: 12' Total Depth: 18'
Application: Testhole/Monitoring Well

Depth (ft)	Lithology	Samples	Color	Org. Vapor (ppm)	Penetration Resistance	Recovery %	USCS Code	Lithologic Description	Well Completion
0.0-2.0'						100		Fill material, clay - silty, sandy, fine to medium grained gravels.	
2.0-3.0'			GRAY	0	0.50		CL	Clay - silty, gray, medium, moist, root mass.	
3.0-7.0'			BLACK	0	0.50	100		Clay - silty, black, medium, moist, odor observed,	
7.0-11.0'			GRAY	0	0.50	100		Clay silty - gray, medium moist, root mass.	
11.0-12.0'			TAN	0	0.0	100	SP	Sand - medium to fine grained, oolitic, silica, wet.	SCREEN
12.0-18.0'			GRAY	0	1.00	100	CL	Clay silty - moist, root mass, gray, brown mottling, medium, iron deposits.	SUMP

122601F8.DWG

Comments: ☐ GROUT ☐ BENTONITE ☐ SAND
☒ STATIC WATER LEVEL