

**LEGEND**

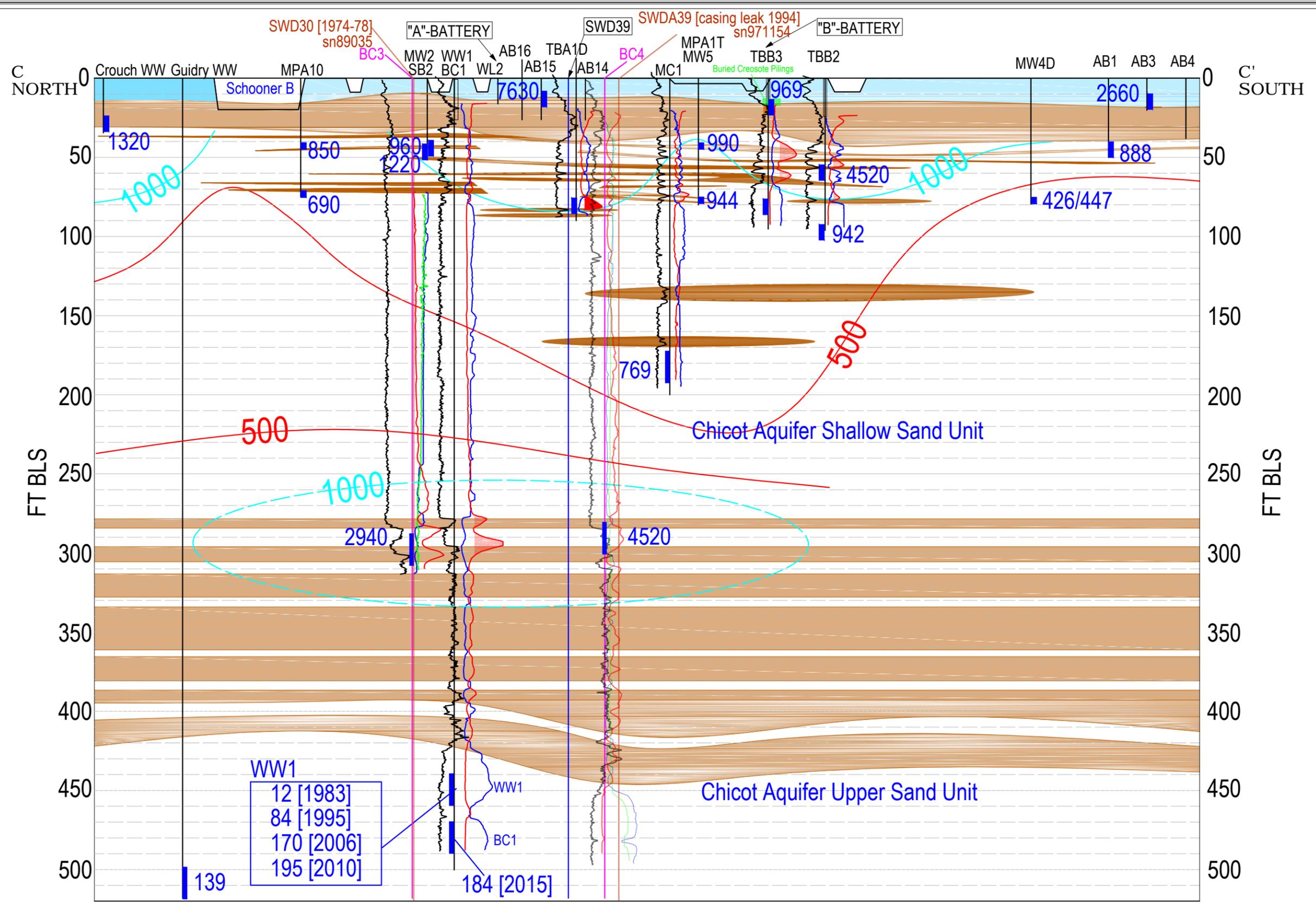
**East White Lake Field**

SCALE  
0 500 1000 1500  
(feet)

MW1 [44-54] • ICON Boring in Chicot Aquifer (Installed after 1/5/16)  
 SS-11 ▼ ICON Sludge Syringe Location  
 B4 ▲ ICON Vibracore Location  
 AB21 • ICON Mud Rotary/Splitspoon Loc  
 AB5 • ICON Mud Rotary/Splitspoon Loc with Monitoring Well in Peat Zone  
 MPA02i [72-75] • Pisani WellPoint Sample (CHCTS)  
 MW1 [44-54] • ICON Boring in Chicot Aquifer (CHCTS or CHCTU)

FIGURE 1  
 MONITORING WELL AND BORING LOCATIONS WITH CROSS SECTION TRANSECTS  
 State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
 East White Lake Field, Vermilion Parish, LA  
 SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN

		Date:	Feb2016
		Figure	1
File Name:	whitelake2009.dwg	Drawn By:	GWM
Project Number:	9077-041-0100		



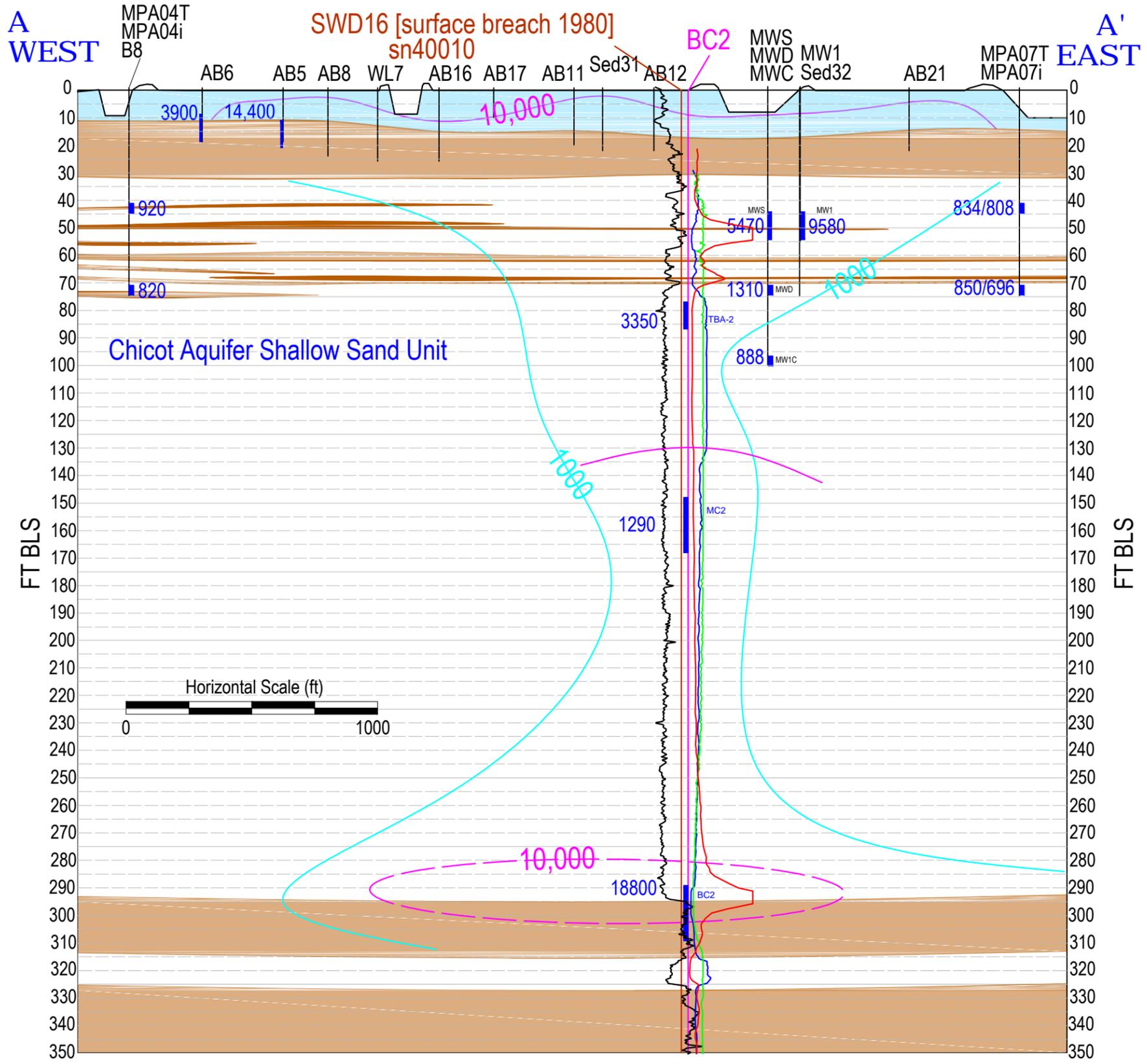
WW1
12 [1983]
84 [1995]
170 [2006]
195 [2010]

PREPARED BY:  
 ICON ENVIRONMENTAL SERVICES, INC.  
 2049 COMMERCIAL DRIVE  
 PORT ALLEN, LA 70767

PREPARED FOR:  
 Talbot, Carmouche, Marcello Law Firm  
 17405 Perkins Road  
 Baton Rouge, Louisiana 70810

GROUNDWATER CHLORIDES ON NORTH-SOUTH CROSS SECTION DIAGRAM  
 State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
 East White Lake Field, Vermilion Parish, LA SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN

FILENAME WhiteLake_XSec.dwg	REV #
JOB NO. 9130-004-0200	DATE FEB 2016
DIRECTORY Carmouche/VermParish/ELW	FIGURE NO. 2



**LEGEND**

Lithology

- Groundwater-Bearing Strata Sand to Silt
- Groundwater-Bearing Strata Clayey Silt and Peat
- Aquitard (Clay, Silty Clay)

ELog

- Well Screen
- Gamma
- Induction Conductivity
- 16\" Resistivity
- 64\" Resistivity

PREPARED BY:  
 ICON ENVIRONMENTAL SERVICES, INC.  
 2049 COMMERCIAL DRIVE  
 PORT ALLEN, LA 70767

PREPARED FOR:  
 Talbot, Carmouche, Marcello Law Firm  
 17405 Perkins Road  
 Baton Rouge, Louisiana 70810

GROUNDWATER CHLORIDES ON THE EAST-WEST CROSS SECTION DIAGRAM  
 State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
 East White Lake Field, Vermilion Parish, LA SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN

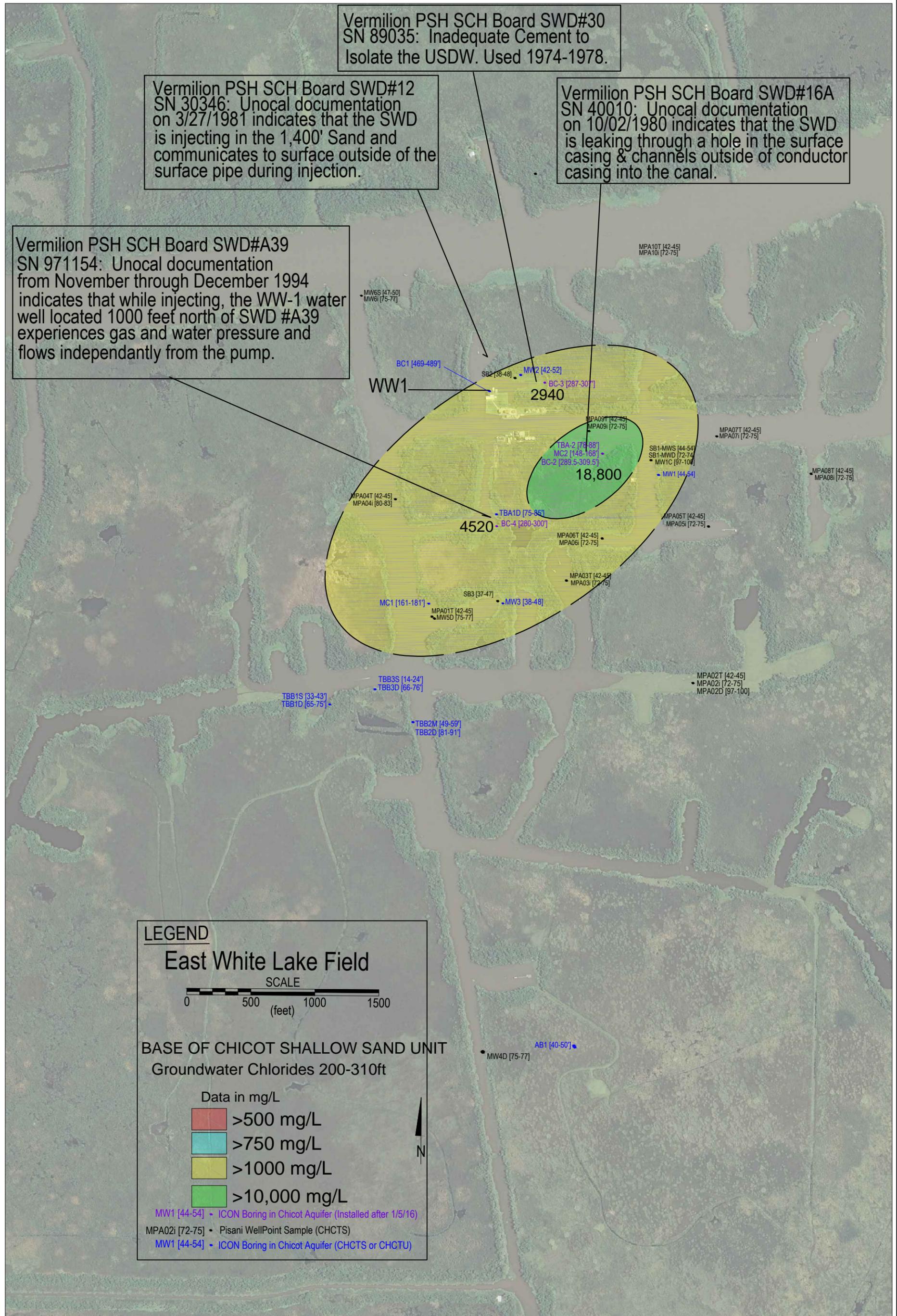
FILENAME WhiteLake_XSeca.dwg	REV #
JOB NO. 9130-004-0200	DATE FEB 2016
DIRECTORY Carmouche/VermParish/ELM	FIGURE NO. 3

Vermilion PSH SCH Board SWD#30  
SN 89035: Inadequate Cement to  
Isolate the USDW. Used 1974-1978.

Vermilion PSH SCH Board SWD#12  
SN 30346: Unocal documentation  
on 3/27/1981 indicates that the SWD  
is injecting in the 1,400' Sand and  
communicates to surface outside of the  
surface pipe during injection.

Vermilion PSH SCH Board SWD#16A  
SN 40010: Unocal documentation  
on 10/02/1980 indicates that the SWD  
is leaking through a hole in the surface  
casing & channels outside of conductor  
casing into the canal.

Vermilion PSH SCH Board SWD#A39  
SN 971154: Unocal documentation  
from November through December 1994  
indicates that while injecting, the WW-1  
water well located 1000 feet north of SWD #A39  
experiences gas and water pressure and  
flows independantly from the pump.



**LEGEND**

**East White Lake Field**

SCALE  
0 500 1000 1500  
(feet)

**BASE OF CHICOT SHALLOW SAND UNIT**  
Groundwater Chlorides 200-310ft

Data in mg/L

- >500 mg/L
- >750 mg/L
- >1000 mg/L
- >10,000 mg/L

MW1 [44-54] • ICON Boring in Chicot Aquifer (Installed after 1/5/16)  
MPA02i [72-75] • Pisani WellPoint Sample (CHCTS)  
MW1 [44-54] • ICON Boring in Chicot Aquifer (CHCTS or CHCTU)

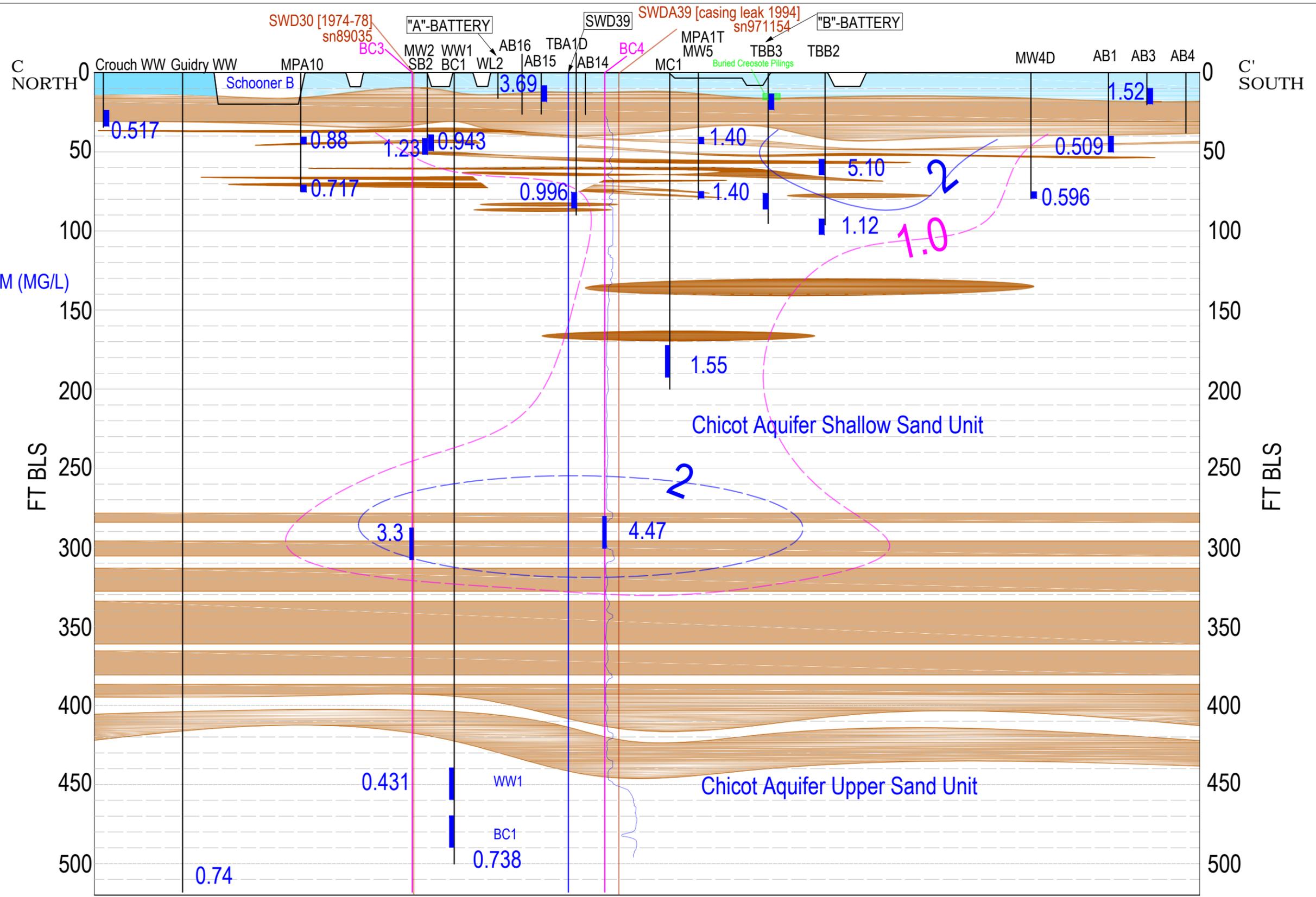
Figure 4  
GROUNDWATER CHLORIDES IN THE BASE OF THE CHICOT SHALLOW SAND UNIT AT 200 TO 310 FEET BLS  
State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
East White Lake Field, Vermilion Parish, LA  
SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN

**LEGEND**

Lithology

- Groundwater-Bearing Strata Sand to Silt
- Groundwater-Bearing Strata Clayey Silt and Peat
- Aquitard (Clay, Silty Clay)

GROUNDWATER BARIUM (MG/L)

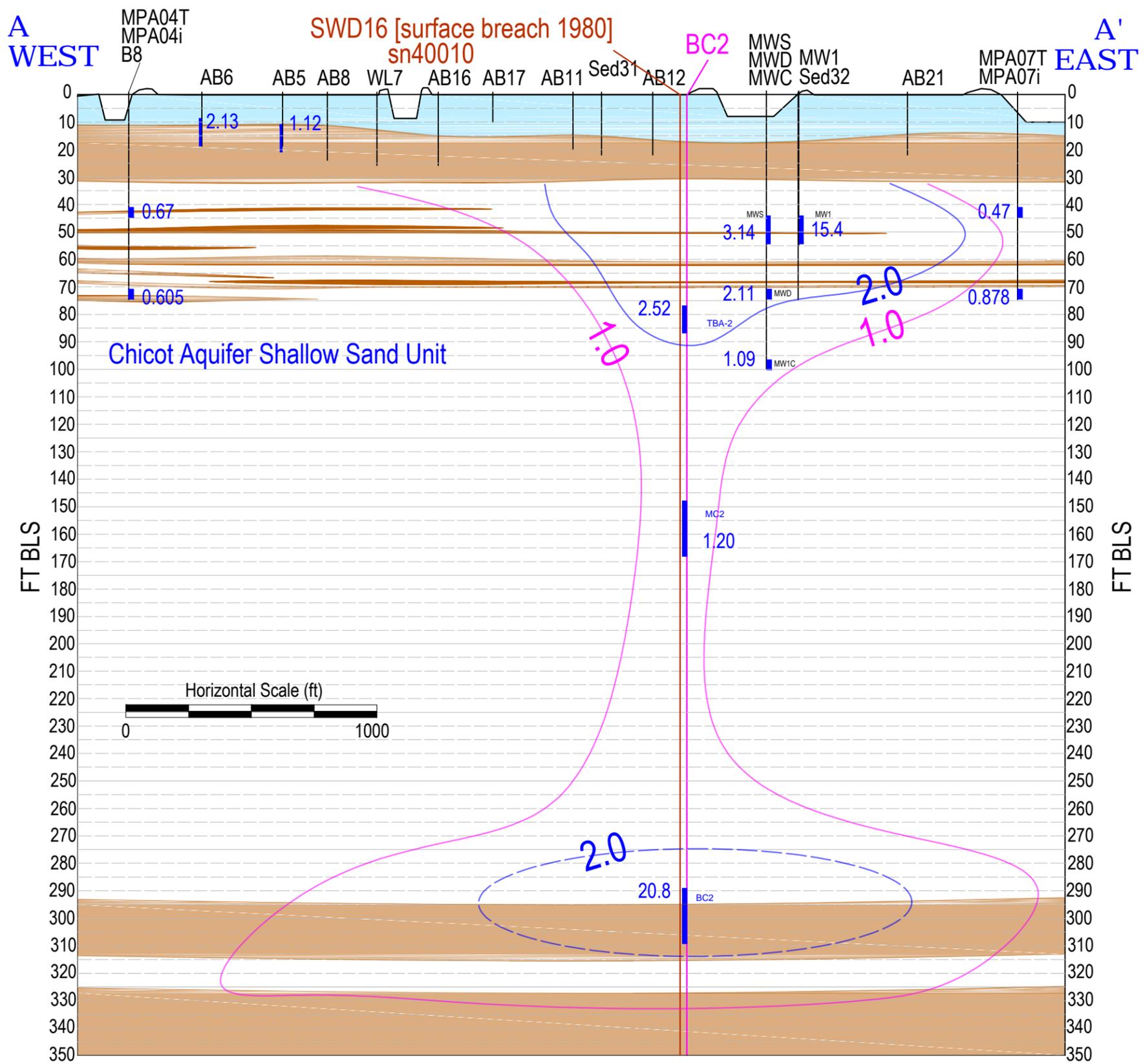
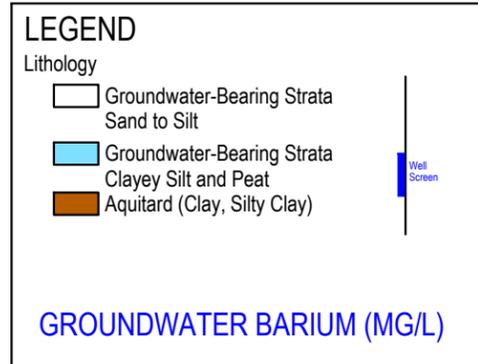


PREPARED BY:  
 ICON ENVIRONMENTAL SERVICES, INC.  
 2049 COMMERCIAL DRIVE  
 PORT ALLEN, LA 70767

PREPARED FOR:  
 Talbot, Carmouche, Marcello Law Firm  
 17405 Perkins Road  
 Baton Rouge, Louisiana 70810

GROUNDWATER BARIUM ON NORTH-SOUTH CROSS SECTION DIAGRAM  
 State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
 East White Lake Field, Vermilion Parish, LA SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN

FILENAME WhiteLake_XSec.dwg	REV #
JOB NO. 9130-004-0200	DATE FEB 2016
DIRECTORY Carmouche/VermParish/ELW	FIGURE NO. 5



PREPARED BY:  
 ICON ENVIRONMENTAL SERVICES, INC.  
 2049 COMMERCIAL DRIVE  
 PORT ALLEN, LA 70767

PREPARED FOR:  
 Talbot, Carmouche, Marcello Law Firm  
 17405 Perkins Road  
 Baton Rouge, Louisiana 70810

GROUNDWATER BARIUM ON THE EAST-WEST CROSS SECTION DIAGRAM  
 State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
 East White Lake Field, Vermilion Parish, LA SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN

FILENAME	REV #
WhiteLake_XSec.dwg	
JOB NO. 9130-004-0200	DATE FEB 2016
DIRECTORY Carmouche/VermParish/ELM	FIGURE NO. 6

Vermilion PSH SCH Board SWD#30  
SN 89035: Inadequate Cement to  
Isolate the USDW. Used 1974-1978.

Vermilion PSH SCH Board SWD#12  
SN 30346: Unocal documentation  
on 3/27/1981 indicates that the SWD  
is injecting in the 1,400' Sand and  
communicates to surface outside of the  
surface pipe during injection.

Vermilion PSH SCH Board SWD#16A  
SN 40010: Unocal documentation  
on 10/02/1980 indicates that the SWD  
is leaking through a hole in the surface  
casing & channels outside of conductor  
casing into the canal.

Vermilion PSH SCH Board SWD#A39  
SN 971154: Unocal documentation  
from November through December 1994  
indicates that while injecting, the WW-1  
water well located 1000 feet north of  
SWD #A39 experiences gas and water  
pressure and flows independently from  
the pump.

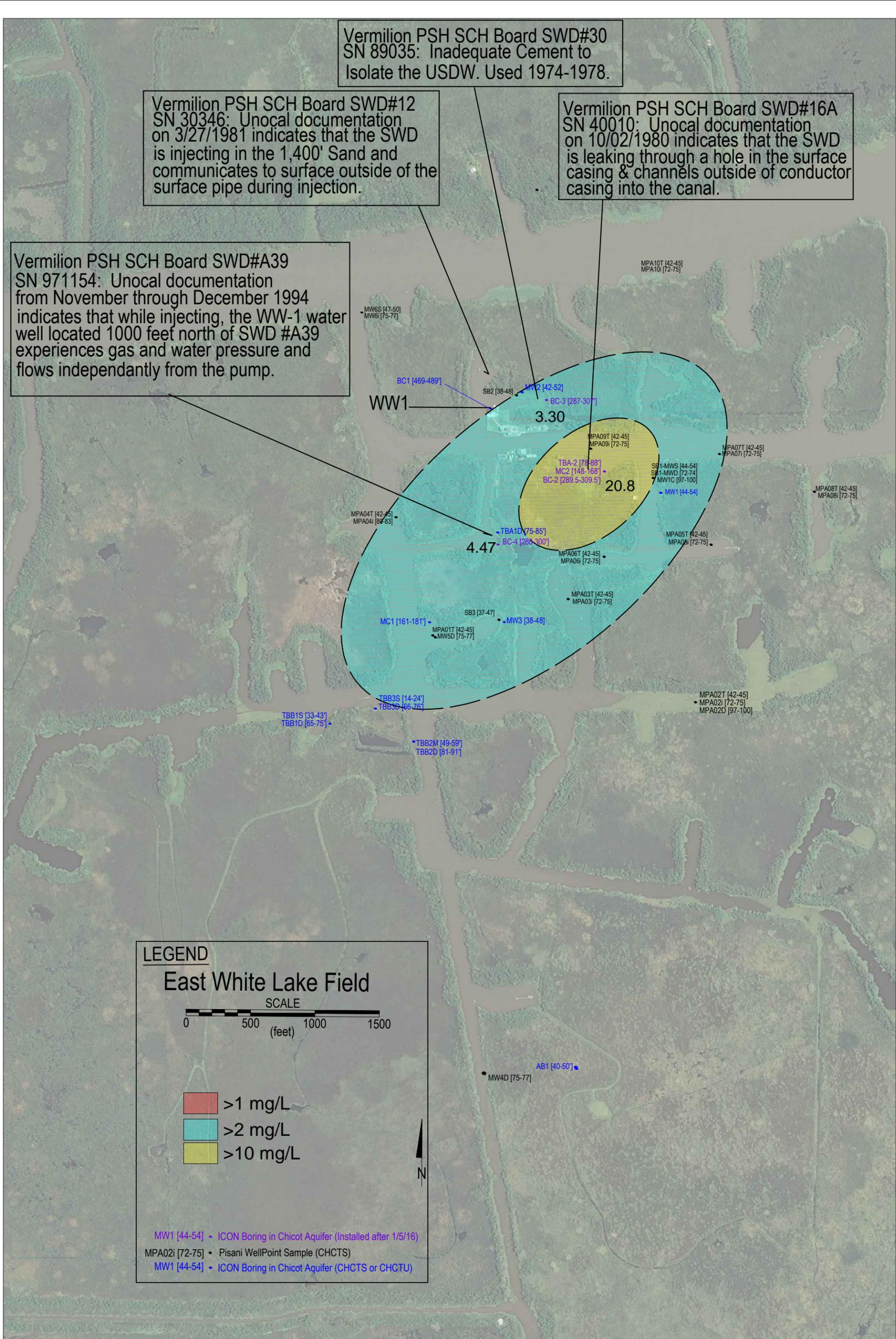


Figure 7  
GROUNDWATER BARIUM IN THE BASE OF THE CHICOT SHALLOW SAND UNIT AT 200 TO 310 FEET BLS  
State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
East White Lake Field, Vermilion Parish, LA  
SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN



Vermilion PSH SCH Board SWD#30  
SN 89035: Inadequate Cement to  
Isolate the USDW. Used 1974-1978.

Vermilion PSH SCH Board SWD#12  
SN 30346: Unocal documentation  
on 3/27/1981 indicates that the SWD  
is injecting in the 1,400' Sand and  
communicates to surface outside of the  
surface pipe during injection.

Vermilion PSH SCH Board SWD#16A  
SN 40010: Unocal documentation  
on 10/02/1980 indicates that the SWD  
is leaking through a hole in the surface  
casing & channels outside of conductor  
casing into the canal.

Vermilion PSH SCH Board SWD#A39  
SN 971154: Unocal documentation  
from November through December 1994  
indicates that while injecting, the WW-1  
water well located 1000 feet north of SWD #A39  
experiences gas and water pressure and  
flows independently from the pump.

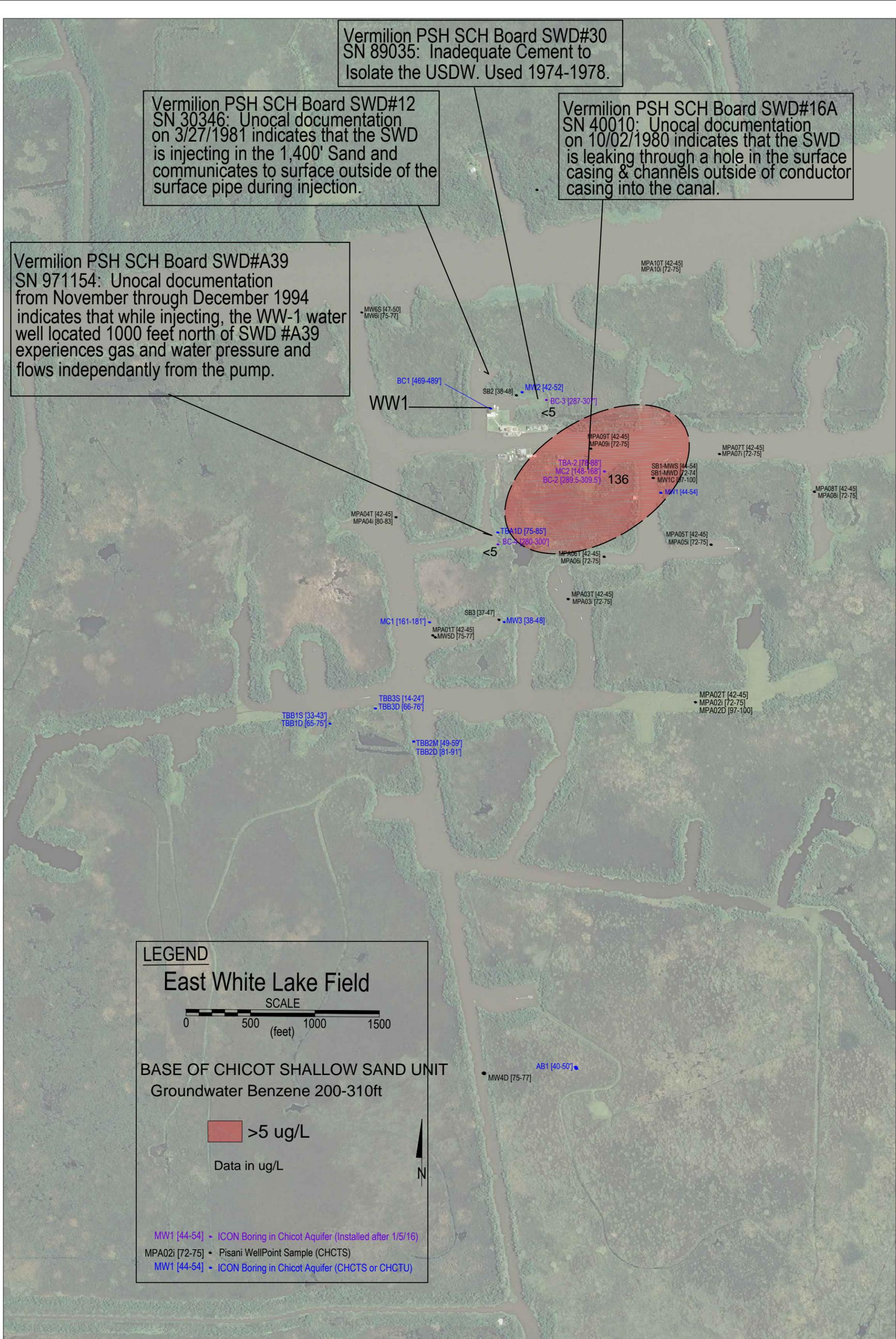


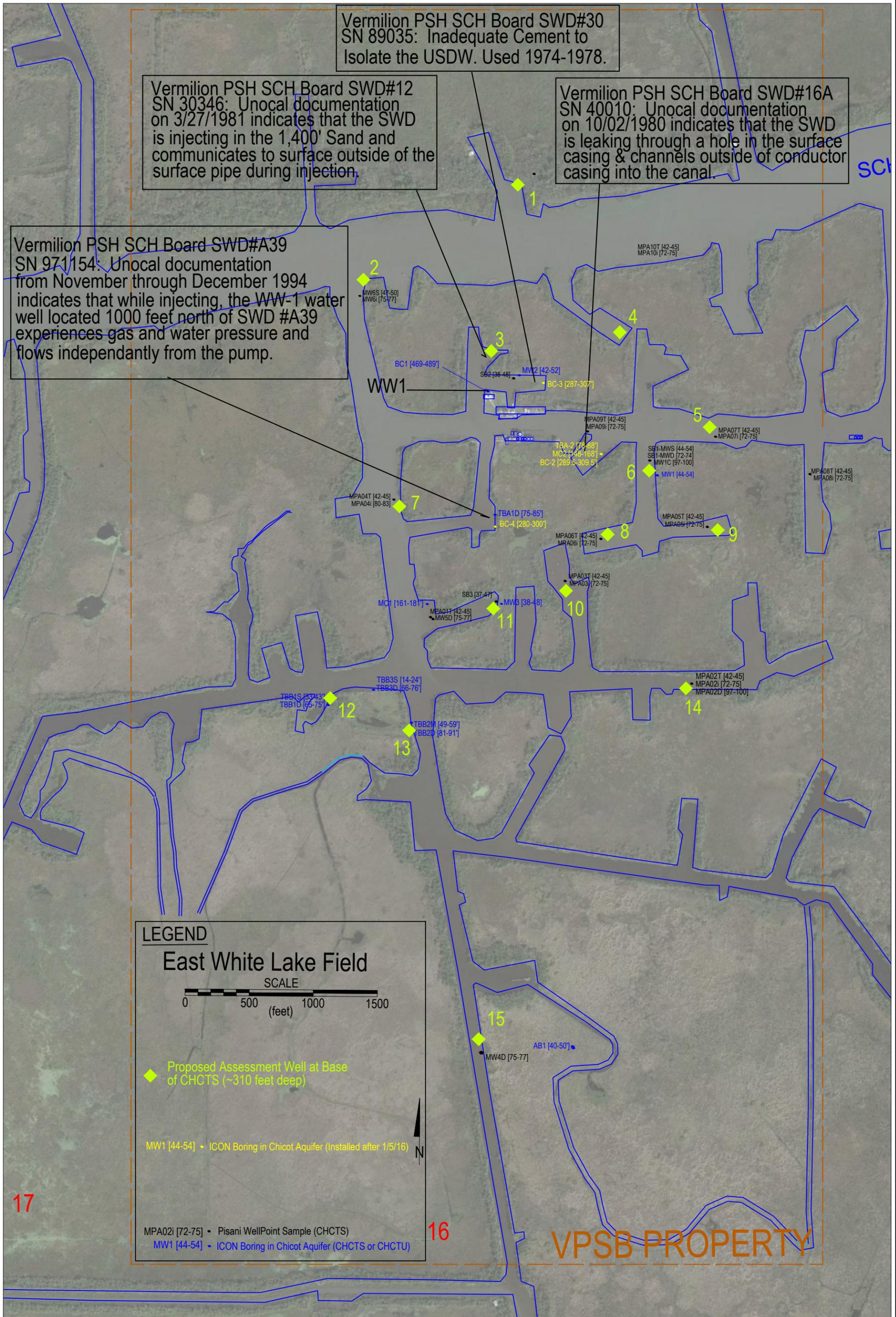
Figure 9  
GROUNDWATER BENZENE IN THE CHICOT SHALLOW SAND UNIT AT 33 TO 60 FEET BLS  
State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
East White Lake Field, Vermilion Parish, LA  
SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN

Vermilion PSH SCH Board SWD#30  
SN 89035: Inadequate Cement to  
Isolate the USDW. Used 1974-1978.

Vermilion PSH SCH Board SWD#12  
SN 30346: Unocal documentation  
on 3/27/1981 indicates that the SWD  
is injecting in the 1,400' Sand and  
communicates to surface outside of the  
surface pipe during injection.

Vermilion PSH SCH Board SWD#16A  
SN 40010: Unocal documentation  
on 10/02/1980 indicates that the SWD  
is leaking through a hole in the surface  
casing & channels outside of conductor  
casing into the canal.

Vermilion PSH SCH Board SWD#A39  
SN 971154: Unocal documentation  
from November through December 1994  
indicates that while injecting, the WW-1  
water well located 1000 feet north of  
SWD #A39 experiences gas and water  
pressure and flows independently from  
the pump.



**LEGEND**

**East White Lake Field**

SCALE  
0 500 1000 1500  
(feet)

◆ Proposed Assessment Well at Base of CHCTS (~310 feet deep)

MW1 [44-54] • ICON Boring in Chicot Aquifer (Installed after 1/5/16)

MPA02i [72-75] • Pisani WellPoint Sample (CHCTS)  
MW1 [44-54] • ICON Boring in Chicot Aquifer (CHCTS or CHCTU)

Figure 10  
PROPOSED ASSESSMENT WELLS FOR THE BASE OF THE CHCTS  
State of Louisiana and Vermilion Parish School Board v Louisiana Land and Exploration et al; Docket No. 82162, Div "D"; 15th JDC  
East White Lake Field, Vermilion Parish, LA  
SUPPLEMENT TO PLAINTIFF'S FEASIBLE PLAN