Pratt & Whitney

Class I Injection Facility No. 33

H. Vandow

REPORT

Rec'd 3-26-04 4:53
no check

Pratt

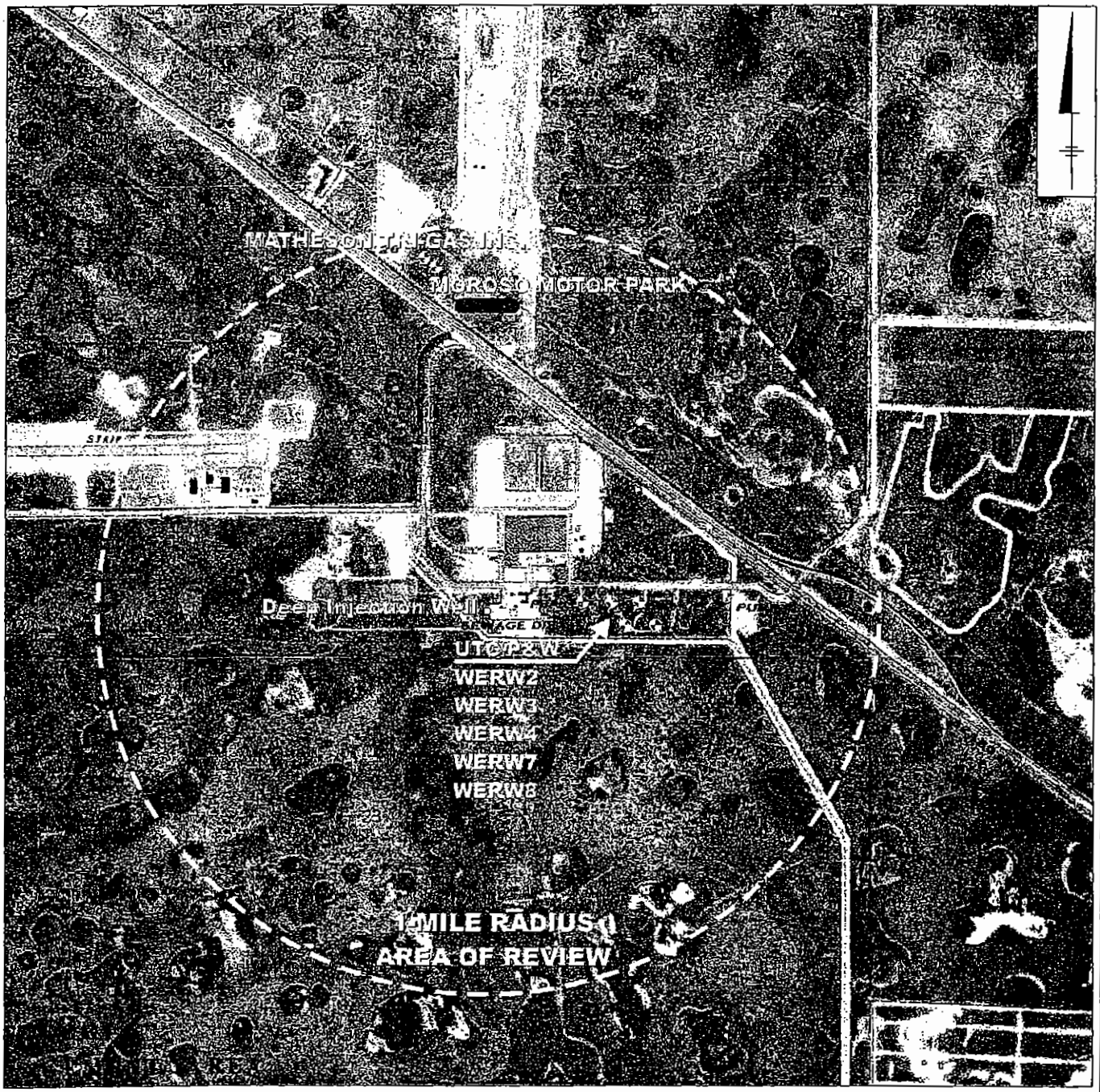
Repermitting Application for Beeline Community Development District Class I Injection Well IW-1

Beeline Community Development District
Palm Beach County, Florida

FDEP Permit No. 0044926-001-UO

March 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists



DEEP INJECTION WELL

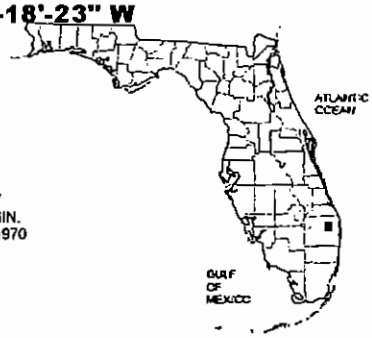
LATITUDE: 26°-54'-05" N

LONGITUDE: 80°-18'-23" W

● Producing Well

2000 0 2000

APPROXIMATE SCALE IN FEET



MAP SOURCE:
UNITED STATES GEOLOGIC SURVEY
TOPOGRAPHIC QUADRANGLE, 7.5 MIN.
SERIES, WEST OF ROOD, FLORIDA 1970
photo-revised 1984.

3/24/04 BOC-54 APD TAM-85 JAR
235\23510\RAR\23510N05.cdr

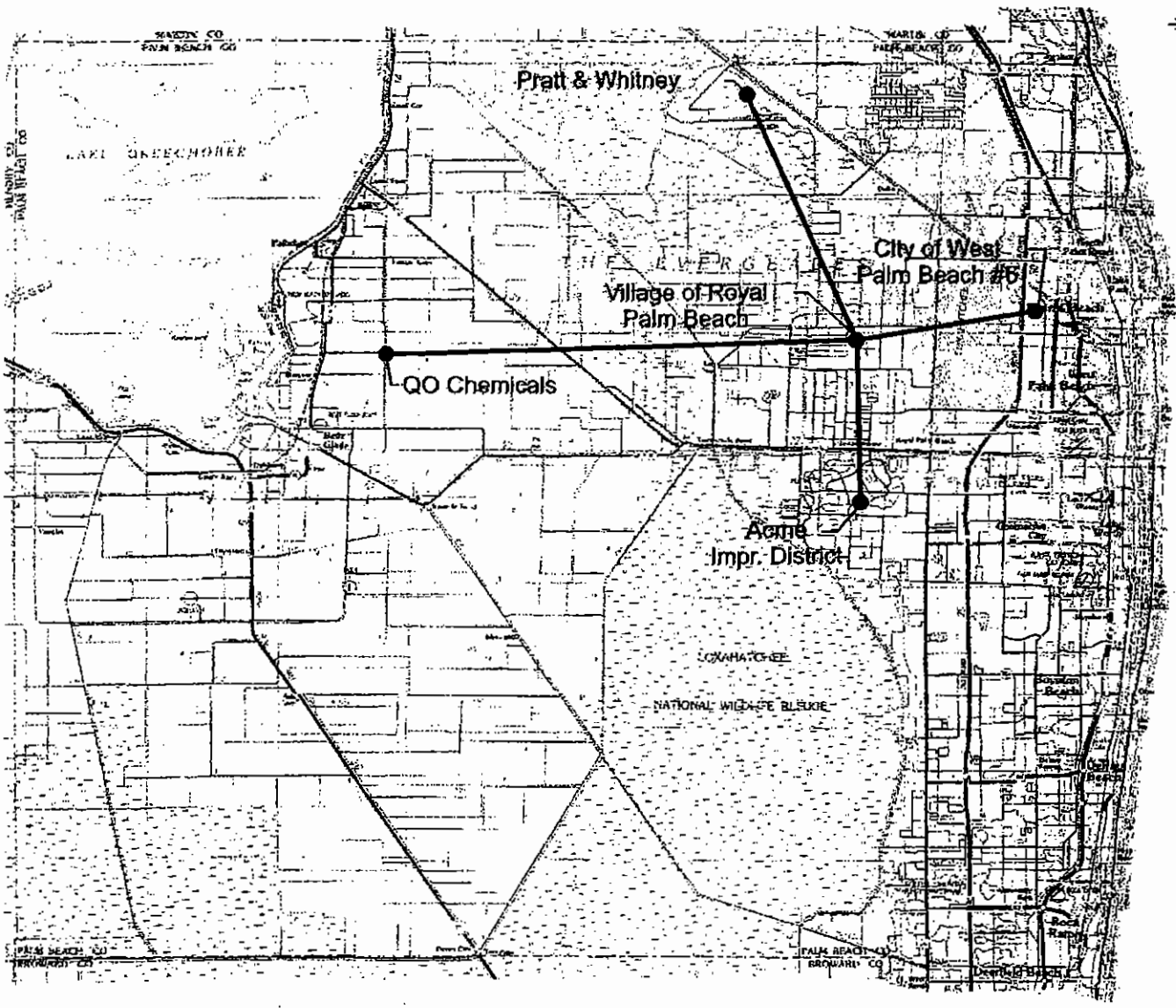
BEELINE COMMUNITY DEVELOPMENT DISTRICT
WEST PALM BEACH, FLORIDA, 33410-9600

REPERMITTING APPLICATION REPORT

AREA OF REVIEW

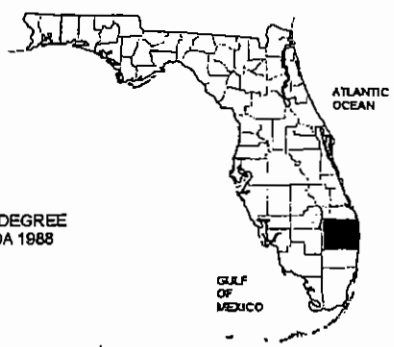
BBL
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 1



4 0 4

APPROXIMATE SCALE IN MILES



MAP SOURCE:
UNITED STATES GEOLOGIC SURVEY
TOPOGRAPHIC QUADRANGLE, 1 x 2 DEGREE
SERIES, WEST PALM BEACH, FLORIDA 1988

3/10/04 BOC-54 APD TAM-85 JAR
235\23510\RAR\23510N02.CDR

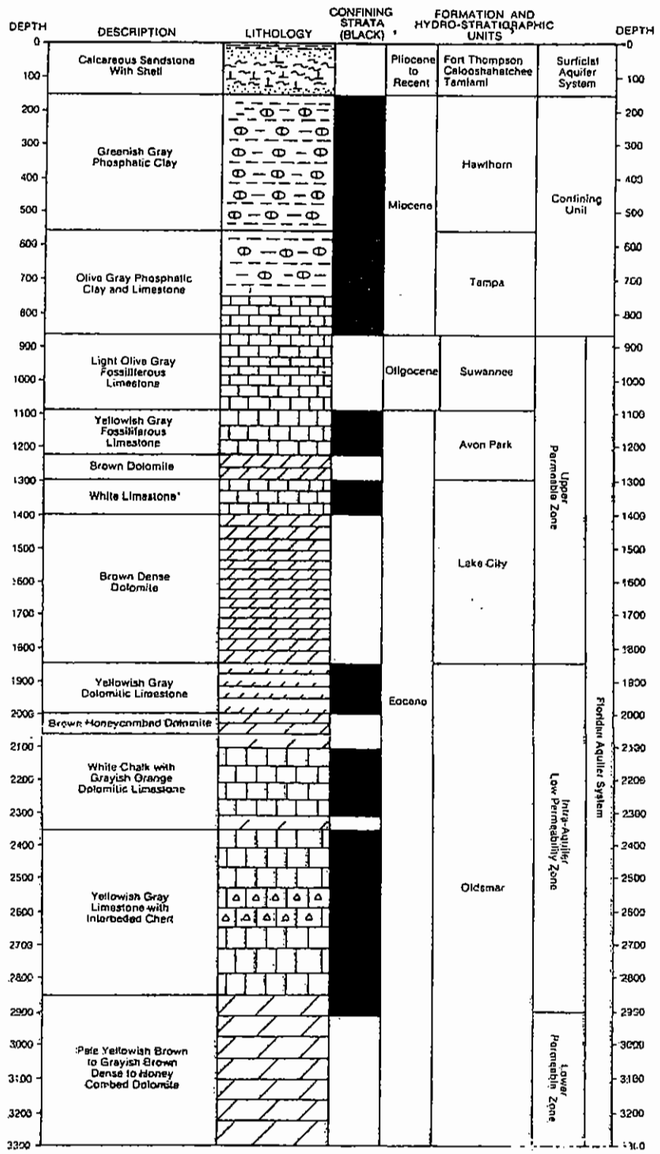
BEELINE COMMUNITY DEVELOPMENT DISTRICT
PALM BEACH COUNTY, FLORIDA

REPERMITTING APPLICATION REPORT

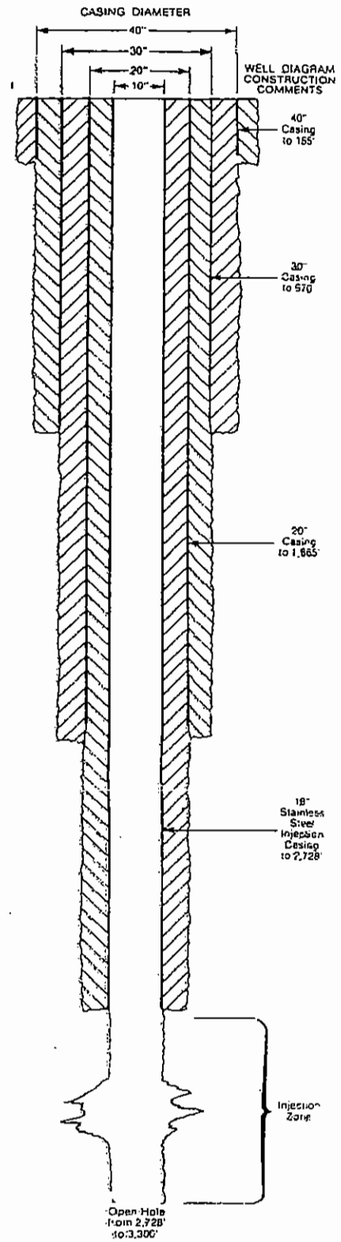
STUDY AREA AND WELL LOCATIONS

BBL
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

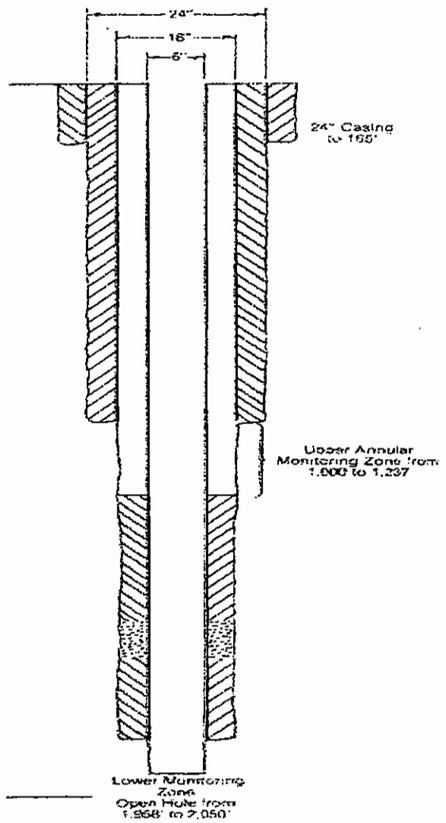
FIGURE
2



INJECTION WELL



MONITORING WELL



SOURCE:
CH2M HILL, ENGINEERING REPORT, "DRILLING AND TESTING OF THE DEEP INJECTION AND MONITORING WELLS", PRATT AND WHITNEY WASTE WATER TREATMENT PLANT, AUGUST 1985.

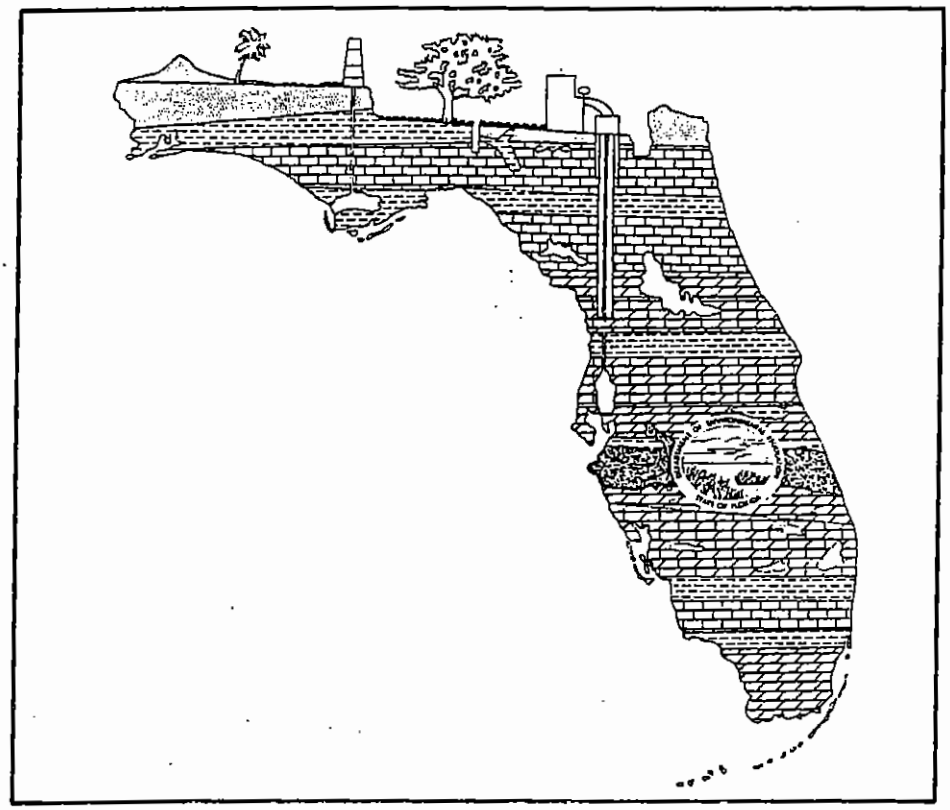
BEELINE COMMUNITY DEVELOPMENT DISTRICT
PALM BEACH COUNTY, FLORIDA
REPERMITTING APPLICATION REPORT

INJECTION WELL CONSTRUCTION DIAGRAM

BRASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 7

3/11/04 BOC-54 MJS TAM-85 JAR
235\23510\RAR\23510N03.CDR



Florida

Class I & Major Class V

Injection Well Data Sheets

Prepared by the Groundwater Section
Florida Department of Environmental Regulation

May 1985

Well Type: Class I Industrial
GMS ID #: P1#1-5050P00286
Last Update: 1/85
P1#2-5050P00289
Construction Permit Number: UD 08-1415

FACILITY NAME: Pratt & Whitney

SITE LOCATION: Palm Beach County
S. R. 710, 20 miles NW of West Palm Beach

OWNER: United Technologies - Pratt & Whitney Aircraft (R.H. Anschutz)

TYPE OF WASTE INJECTED: Wastes to be injected include sanitary and industrial wa
Sanitary: 250 mgd Industrial: Dilute Acid Rinse: 100 mgd. Dilute Alkali Rins
120 mgd pH 3.0 - 9.5 (see attached sheets).

INJECTION WELLS NUMBER OF WELLS: 1

	WELL # 1	WELL #	WELL #	WELL #
LAT/LONG:	See below *			
BEGUN OPERATION:	not yet			
CONSTRUCTION COMPLETE:	not yet			
NOMINAL CAPACITY:	2.0 mgd			
MAX. INJ. PRESSURE:	?			
CASING (DIA/DEPTH):	40" - 165' 30" - 970' 20" - 1865' 10" - 2720			

* Lat/Long: 26°53'27"N/80°18'19"W - Plant #1
26°54'04"N/80°22'59"W - Plant #2

FACILITY NAME: Pratt & Whitney
PAGE Two

INJECTION WELLS

	WELL # 1	WELL #	WELL #	WELL #
TUBING:	none			
HOLE DEPTH TO:	3320'			
INJECTION INTERVAL:	2720' - 3320'			
INJECTION ZONE:	Boulder Zone			
)RMATION(S):	Oldsmar Ls			
TDS mg/l (INITIAL):	30,000 - 45,000			

FACILITY NAME: Pratt & Whitney
PAGE Three

MONITORING WELLS: NUMBER OF WELLS: multizone

	WELL # 1	WELL # 1	WELL #	WELL #
LAT/LONG:	upper monitor	lower monitor		
TYPE:	multizone (upper)	multizone (lower)		
DEPTH MONITORED:	1000 - 1250'	1950 - 2050'		
AQUIFER MONITORED:	upper Floridan	lower Floridan		
TDS mg/l (INITIAL):	2000 - 4000'	28,000?		
PARAMETERS:				

AREA OF REVIEW: one mile
NOTES: Ten inch injection casing will be stainless steel. Construction of the injection well commenced 10/84.

TAC MEMBER: Rich Deuerling
CONSULTANT: CH_2M Hill

Table 5
COMBINED INDUSTRIAL AND SANITARY EFFLUENT
pH EXTREMES

Month	Year	Maximum	Minimum	No. of Days Below 6.0
January	1982	7.6	3.4	17
February	1982	7.1	3.6	9
March	1982	8.5	3.0	5
April	1982	9.5	5.8	1
May	1982	9.1	4.1	4
June	1982	7.4	5.3	7
July	1982	9.3	6.0	0
August	1982	7.0	5.6	1
September	1982	6.8	5.2	2
October	1982	7.1	3.9	2
November	1982	6.9	6.3	0
December	1982	9.0	5.9	1
January	1983	7.2	4.9	2
February	1983	7.4	6.0	0
March	1983	8.5	5.6	4
April	1983	9.1	5.9	1
TOTAL				56

GNR124

CH_2M HILL, 1983

Table 6
ORGANIC PRIORITY POLLUTANTS DETECTED IN SANITARY, INDUSTRIAL, AND TOTAL COMBINED WASTEWATER STREAMS[a]

Parameter[a]	Concentrations (µg/l)								
	Sanitary			Combined Industrial			Combined Sanit and Industria		
Volatiles[b]									
Benzene	ND	<1	ND	ND	<1	ND	ND	<1	
Chloroform	4.0	14	2.1	60	15	72	180	9	
1,2-trans-dichloroethylene	ND	ND	ND	ND	<1	ND	ND	<1	1
Chlorodibromomethane	ND	ND	ND	1.0	<1	25	15	<1	4
Dichlorobromomethane	ND	<1	ND	9.0	2.0	3.1	50	1.0	8
Methylene Chloride	6.0	<1	ND	ND	<1	ND	2.0	<1	
Tetrachloroethylene	3.0	2.0	ND	ND	3.0	6.0	10	4.0	4
Toluene	ND	3.0	ND	2.0	<1	ND	ND	<1	
Trichloroethylene	4.0	5.0	ND	2.0	4.0	11	20	6.0	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	<1	
Base/Neutral[c]									
Bis (2-ethylhexyl) phthalate		4.0			16			6.0	
Di-n-butyl phthalate		2.0			2.0			1.0	
Di-n-octyl phthalate		ND			12.0			10	
Hexachlorocyclopentadiene		ND			2.0			ND	
Fluoranthene		ND			ND			1.0	

Note: ND = None detected.

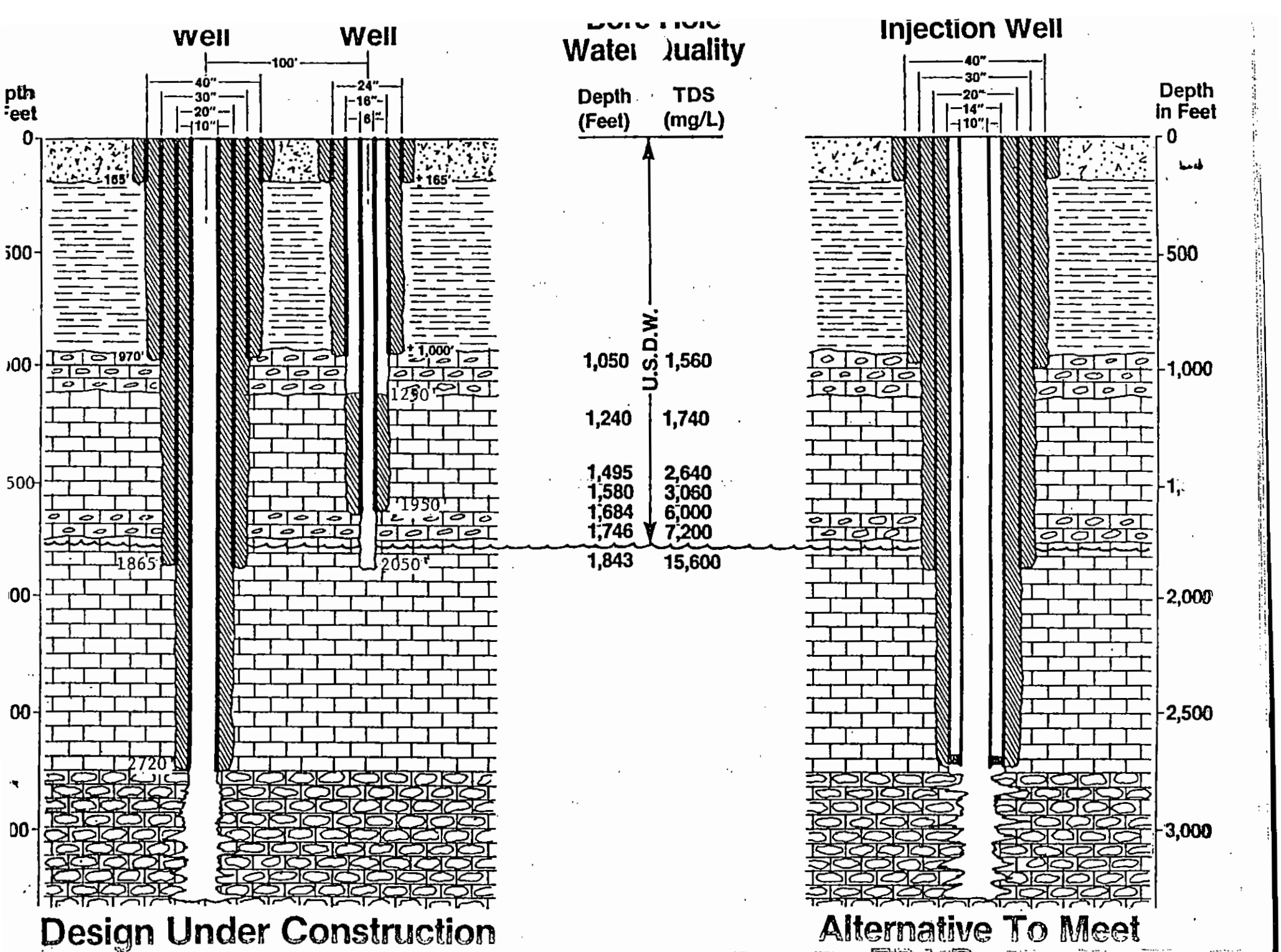
[a]Acids and unlisted volatiles and base/neutrals were not detected.

[b]Based on three grab samples collected in October and November, 1982.

[c]Based on one grab sample collected in October 1982.

GNR124

CH_2M HILL, 1983


Well
Well
100'
40"
30"
20"
10"
24"
16"
6"
165'
165'
970'
1,000'
1250'
1950'
1865'
2050'
2720'
Depth (Feet)
TDS (mg/L)
U.S.D.W.
1,050
1,560
1,240
1,740
1,495
2,640
1,580
3,060
1,684
6,000
1,746
7,200
1,843
15,600
Injection Well
40"
30"
20"
14"
10"
Depth in Feet
0
500
1,000
2,000
2,500
3,000
Design Under Construction
Alternative To Meet