Lahera, Rommy

From: Clasen, Martin J [marty.clasen@atkinsglobal.com]
Sent: Wednesday, September 07, 2011 2:53 PM
To: Kelsey, Bill; Lahera, Rommy; Alexander, James; DavidN.Arnold@swfwmd.state.fl.us
Cc: Haberfeld, Joe; Farkas, Tom A
Subject: Venice Gardens DIW VG-1R Permit No. 0136598-005-UC Specific Condition 5.e
Attachments: SWFWMD DIW WCP revised.PDF; Appendix D SWFWMD Well Completion Reports.pdf; FDEP WEll Completion Form 09-01-2011.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

TAC,

Attached please find the SWFWMD Well Construction Permit, SWFWMD Well Completion Form, and the FDEP Well Completion Form for the Venice Gardens VG-1R DIW as required per Specific Condition 5.e. The original permit application had a planned final casing depth of 1,500 feet, but the well was completed with a final casing depth of 1,300 feet.

Martin J. Clasen, PG
Senior Hydrogeologist

ATKINS

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APPENDIX D

Well Completion Reports

STATE OF FLORIDA WELL COMPLETION REPORT

☑ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

1. *Permit Number 804810 *CUP/WUP Number N/A *DID Number _____ 62-524 Delineation No. _____
2. *Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned _____
3. *Owner's Name Sarasota County Mgmt 4. *Completion Date 5/12/11 5. Florida Unique ID VID-150
6. 9450 Indian Hills Blvd Venice
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Sarasota *Section 22 Land Grant _____ *Township 39 *Range 19
8. Latitude 27°04'24.388 Longitude 082°23'17.504"
9. Data Obtained From: ____GPS ____Map ✓Survey Datum: ____NAD 27 ✓NAD 83 ____WGS 84

10. *Type of Work: ✓Construction ____Repair ____Modification ____Abandonment
11. *Specify Intended Use(s) of Well(s):
____Domestic
____Bottled Water Supply
____Public Water Supply (Limited Use/DOH)
____Public Water Supply (Community or Non-Community/DEP)
____Class I Injection
____Landscape Irrigation
____Recreation Area Irrigation
____Agricultural Irrigation
____Livestock
____Nursery Irrigation
____Commercial/Industrial
____Golf Course Irrigation
____Site Investigation
✓Monitoring Lower Zone
____Test
____Earth-Coupled Geothermal
____HVAC Supply
____HVAC Return
Class V Injection: ____Recharge ____Commercial/Industrial Disposal ____Aquifer Storage and Recovery ____Drainage
Remediation: ____Recovery ____Air Sparge ____Other (Describe) _____
____Other (Describe) _____

12. *Drill Method: ____Auger ____Cable Tool ✓Rotary ✓Combination (Two or More Methods) ____Jetted ____Sonic ____Horizontal Drilling ____Hydraulic Point (Direct Push) ____Other _____
13. *Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM
14. *Measuring Point (Describe) _____ Which is _____ ft. _____ Above _____ Below Land Surface *Flowing: ____Yes ____No
15. *Casing Material: 16" Black Steel ____Galvanized ____PVC ____Stainless Steel ____Not Cased 6" Other FRP
16. *Total Well Depth 1200 ft. Cased Depth 1130 ft. *Open Hole: From 1130 To 1200 ft. *Screen: From ____ To ____ ft. Slot Size ____

17. *Abandonment: ____Other (Explain) _____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

18. *Surface Casing Diameter and Depth:
Dia 16 in. From LS ft. To 280 ft. No. of Bags 476 Seal Material (Check One): ✓Neat Cement ____Bentonite ____Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

19. *Primary Casing Diameter and Depth:
Dia 6 in. From 105 ft. To 1128 ft. No. of Bags 1251 Seal Material (Check One): ✓Neat Cement ____Bentonite ____Other ____
Dia ____ in. From 1128 ft. To 1124 ft. No. of Bags 5015 Seal Material (Check One): ____Neat Cement ____Bentonite ✓Other gravel
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

20. *Liner Casing Diameter and Depth:
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

21. *Telescope Casing Diameter and Depth:
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

22. Pump Type (If Known):
____Centrifugal ____Jet ____Submersible ____Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
____Laboratory Test ____Field Test Kit

24. Water Well Contractor:
*Contractor Name David W. Webb *License Number 2040 E-mail Address davidwebb@allwebbs.com
*Contractor's Signature _____ *Driller's Name (Print or Type) _____
(I certify that the information provided in this report is accurate and true.)

FORM LEG-R.005.02 (6/10)

Rule 40D-3.411 (1) (a), F.A.C.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

see attached lithology

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____

Comments:

***Detailed Site Map of Well Location**

N

see attached survey

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

LITHOLOGIC LOG

Location: VG DIW-1R Site, Sarasota County, FL **Owner:** Sarasota County Utility Operations **Date Drilled:** July 2010 to **Drilling Method:** Mud rotary to 285 ft/Reverse-air to 1,180 **Drilling Contractor:** All Webbs Enterprises **Sampling Method**: Grab samples from drill cuttings	**SARASOTA COUNTY** **Venice Gardens RO** **Water Treatment Facility** **LZMW-1**

DEPTH INTERVAL (ft)		DESCRIPTION	BY
FROM	TO		
0	10	SAND, fine grained, sub-angular, quartz, colorless to light tan; much organics and shell fragments	MR
10	20	SAME AS ABOVE	MR
20	30	SAND, medium grained, rounded, quartz, colorless; some limestone, micritic, friable medium grained, fossiliferous, light tan; some phosphate grains; some shell fragments	MR
30	40	LIMESTONE, moderately friable, phosphatic, fossiliferous, light gray; some limestone, friable, soft, fossiliferous, fine grained, buff; some sand, quartz, medium grained, rounded, colorless; phosphate grains and shell fragments	MR
40	50	SAME AS ABOVE	MR
50	60	SAME AS ABOVE, more shell fragments and phosphate grains	MR
60	70	LIMESTONE, micritic, fossiliferous, moderately friable, phosphatic, light gray, some clay, moderately firm, silty, phosphate, gray; Some limestone, micritic, friable, soft, fossiliferous, buff; much shell fragments and trace sand.	MR
70	80	LIMESTONE, moderately firm, hard, phosphatic, fossiliferous; some limestone, friable, phosphatic, tan; much shell fragments and phosphate grains	MR
80	90	CLAY, silty, moderately firm, fossiliferous, phosphatic, gray; some limestone, micritic, fossiliferous, phosphatic, light gray; some limestone, friable, buff; some shell fragments.	MR
90	100	SAME AS ABOVE	MR
100	110	LIMESTONE, friable, fine grained, fossiliferous, buff; some shell fragments	MR
110	120	LIMESTONE, friable, fine grained, fossiliferous, buff; some shell fragments	MR
120	130	SAME AS ABOVE	MR
130	140	CLAY, silty, loose, sticky, phosphatic, light gray; some limestone, hard, moderately friable, phosphatic, fossiliferous, light gray; shell fragments	MR
140	150	SAME AS ABOVE; more phosphate grains in clay	MR
150	160	LIMESTONE, hard moderately friable, medium grained, phosphatic, buff; some shell fragments; trace sand, trace calcareous sandstone	MR

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LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
160	170	LIMESTONE, hard moderately friable, medium grained, phosphatic, buff; some shell fragments; trace sand, trace calcareous sandstone	MR
170	180	LIMESTONE, micritic, medium grained, moderately friable, fossiliferous, phosphatic; much shell fragments and phosphate grains	MR
180	190	LIMESTONE, moderately friable, hard, phosphatic, fossiliferous, buff to tan; some shell fragments; trace chert, white, glassy	MR
190	200	LIMESTONE, micritic, medium grained, moderately friable, fossiliferous, phosphatic; much shell fragments and phosphate grains	MR
200	210	CLAY, silty, firm, phosphatic, fossiliferous, light gray; limestone, micritic hard, medium grained phosphatic, fossiliferous, light gray; some shell fragments	MR
210	220	CLAY, silty, moderately firm, phosphatic, fossiliferous, light gray; much limestone, moderately hard, friable, micritic, phosphatic, fossiliferous, light gray; much shell fragments	MR
220	230	SAME AS ABOVE	MR
230	240	SAME AS ABOVE	MR
240	250	LIMESTONE, moderately hard, micritic, friable, fine grained, buff; some shell fragments; trace calcareous sandstone	MR
250	260	LIMESTONE, moderately hard, micritic, friable, fine grained, buff; some shell fragments; trace calcareous sandstone	MR
260	270	LIMESTONE, moderately friable, micritic, light tan; some dolostone, sandy, moderately friable to moderately hard, light tan; some shell fragments; trace limestone, micritic, hard, dark gray	MR
270	280	SAME AS ABOVE	MR
280	290	LIMESTONE, fossiliferous, phosphatic, moderately hard to hard, fine to medium grained, light gray; trace dolostone, fine grained, hard, light gray and buff; trace dolostone, sandy, phosphatic, hard, gray; trace shell fragments (mollusk)	MR
290	300	LIMESTONE, moderately hard, micritic, friable, fine grained, buff; some shell fragments; trace calcareous sandstone	MR
300	310	LIMESTONE, fossiliferous (trace oolites present), moderately friable to moderately hard, fine to medium grained, buff; trace limestone [wackestone to packstone], fossiliferous, trace phosphate specs within limestone, medium grained, buff and light gray; trace shell casts and *cyrena pompholyx* fossils	MR
310	320	LIMESTONE, fossiliferous, moderately friable to moderately hard, fine to medium grained, buff to light gray; trace limestone, fine grained, hard, light gray; trace shell casts	MR

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LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
320	330	LIMESTONE, [packstone], sandy (quartz, 40 to 50%, colorless), fossiliferous, moderately hard, grayish-tan, some of the limestone contains intraclasts of calcite; trace sand, quartz, fine grained, rounded to subrounded, colorless; trace limestone, sandy (quartz, 80 to 90%, colorless), moderately hard, light gray; trace shell casts	MR
330	340	LIMESTONE, [wackestone], fossiliferous, trace phosphate specs in the limestone, fine to medium grained, moderately hard, grayish-tan; some limestone, very friable, light tan; trace sand, quartz, fine grained, rounded, colorless; trace shell casts	MR
340	350	SAME AS ABOVE	MR
350	360	CLAY, moderately firm, slightly phosphatic, dark gray; trace limestone, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; trace sand, quartz, fine grained, subrounded, colorless	MR
360	370	CLAY, moderately soft, slightly phosphatic, sandy, light gray; trace clay nodules, moderately firm, dark gray; trace limestone, friable, sandy (quartz, fine to medium grained, 20 to 30%, colorless), buff	MR
370	380	LIMESTONE, weathered, clayey, buff; some limestone, fine to medium grained, moderately hard, grayish-tan	MR
380	390	SAME AS ABOVE	MR
390	400	SAME AS ABOVE	MR
400	410	LIMESTONE, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; much sand, quartz, fine grained, subrounded, colorless and light gray	MR
410	420	LIMESTONE, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; some clay, moderately firm to firm, gray; trace sand, quartz, fine grained, subrounded, colorless and light gray	MR
420	430	LIMESTONE, weathered, clayey, buff; some limestone, fine to medium grained, moderately hard, grayish-tan	MR
430	440	LIMESTONE, weathered, clayey, buff; some limestone, fine to medium grained, moderately hard, grayish-tan	MR
440	450	SAME AS ABOVE	MR
450	460	SAME AS ABOVE	MR
460	470	SAME AS ABOVE	MR
470	480	DOLOSTONE, fine grained, phosphatic, hard, light gray; trace limestone, phosphatic, sandy (quartz, fine grained, 50 to 60%, colorless to light gray); trace sand, quartz, fine grained, colorless	MR
480	490	DOLOSTONE, phosphatic, fine grained, moderately friable to moderately hard, grayish-tan; trace clay, moderately firm, gray	MR
490	500	DOLOSTONE, phosphatic, fine grained, moderately friable to moderately hard, grayish-tan; trace clay, moderately firm, gray	MR

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
500	510	CLAY, moderately firm, slightly phosphatic, dark gray	MR
510	520	CHERT, very hard, chrystaline, glassy, smokey white to gray; some dolostone , moderately hard, micritic, sandy, light gray	MR
520	530	LIMESTONE, fossiliferous, sandy (quartz, fine grained, 50 to 60%, colorless), very friable to moderately friable, buff; trace clay, moderately firm, gray	MR
530	540	LIMESTONE, [packstone], fossiliferous, very friable, buff; trace fossils (gastropods and mollusk)	MR
540	550	LIMESTONE, [wackestone], fossiliferous, very friable to moderately friable, fine to medium grained, buff; trace shell casts	MR
550	560	LIMESTONE, fossiliferous, very friable, light tan; trace limestone, moderately hard, fine grained, light tan; trace shell casts	MR
560	570	LIMESTONE, fossiliferous, very friable to friable, fine grained, buff to light tan; much limestone, moderately hard to hard, fine grained, buff to light tan	MR
570	580	SAME AS ABOVE; trace limestone, fossiliferous, moderately hard, light gray	MR
580	590	LIMESTONE, fossiliferous, friable, fine grained, buff to light tan; some limestone, moderately friable to moderately hard, fine grained, buff to light tan	MR
590	600	LIMESTONE, fossiliferous, friable to moderately friable, fine to medium grained, light tan; trace shell casts and fossils (mollusk)	MR
600	610	SAME AS ABOVE	MR
610	620	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; much limestone, weathered, clayey, moderately soft to moderately firm, light tan; trace fossils (mollusk)	MR
620	630	LIMESTONE, fossiliferous, fine to medium grained, very friable to moderately friable, light tan	MR
630	640	LIMESTONE, fossiliferous, very friable, fine to medium grained, light tan	MR
640	650	SAME AS ABOVE	MR
650	660	LIMESTONE, fossiliferous, friable to moderately friable, fine to medium grained, buff	MR
660	670	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; trace shell casts	MR
670	680	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MR
680	690	SAME AS ABOVE	MR
690	700	SAME AS ABOVE	MR

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LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
700	710	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; trace limestone, fossiliferous, moderately hard, fine grained, light tan to grayish-tan	MR
710	720	LIMESTONE, fossiliferous, very friable, fine grained, light tan	MR
720	730	SAME AS ABOVE	MR
730	740	SAME AS ABOVE; minor trace of fossils (mollusk)	MR
740	750	LIMESTONE, fossiliferous, very friable to friable, fine to medium grained, light tan to grayish-tan; trace of fossils (mollusk)	MR
750	760	LIMESTONE, fossiliferous, very friable, fine grained, light tan; trace shell casts	MR
760	770	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MR
770	780	SAME AS ABOVE	MR
780	790	LIMESTONE, fossiliferous, very friable to moderately friable, fine grained, light tan; trace limestone, weathered, clayey, moderately soft, dark tan	MR
790	800	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MR
800	810	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan; minor trace shell casts	MR
810	820	LIMESTONE, very friable to friable, fine grained, light tan; some dolostone, fine grained, hard, grayish-tan; trace limestone, weathered, clayey, moderately firm, light gray; trace fossils (gastropod and mollusk)	MR
820	830	LIMESTONE, very friable to friable, fine grained, light tan; trace dolostone, fine grained, hard, grayish-tan	MR
830	840	LIMESTONE, very friable to friable, fine to medium grained, light tan;	MR
840	850	LIMESTONE, fossiliferous, very friable, fine grained, light tan	MR
850	860	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan	MR
860	870	SAME AS ABOVE	MR
870	880	LIMESTONE, very friable to friable, fine grained, light tan	MR
880	890	LIMESTONE, very friable to friable, fine grained, light tan; trace foraminifera (disc)	MR
890	900	LIMESTONE, very friable to friable, fine grained, light tan; some foraminifera (disc)	MR
900	910	LIMESTONE, very friable, fine grained, light tan	MR
910	920	SAME AS ABOVE	MR
920	930	LIMESTONE, very friable to friable, fine grained, light tan	MR
930	940	LIMESTONE, very friable to moderately friable, fine to medium grained, light tan; some foraminifera (disc); trace limestone, fossiliferous	MR

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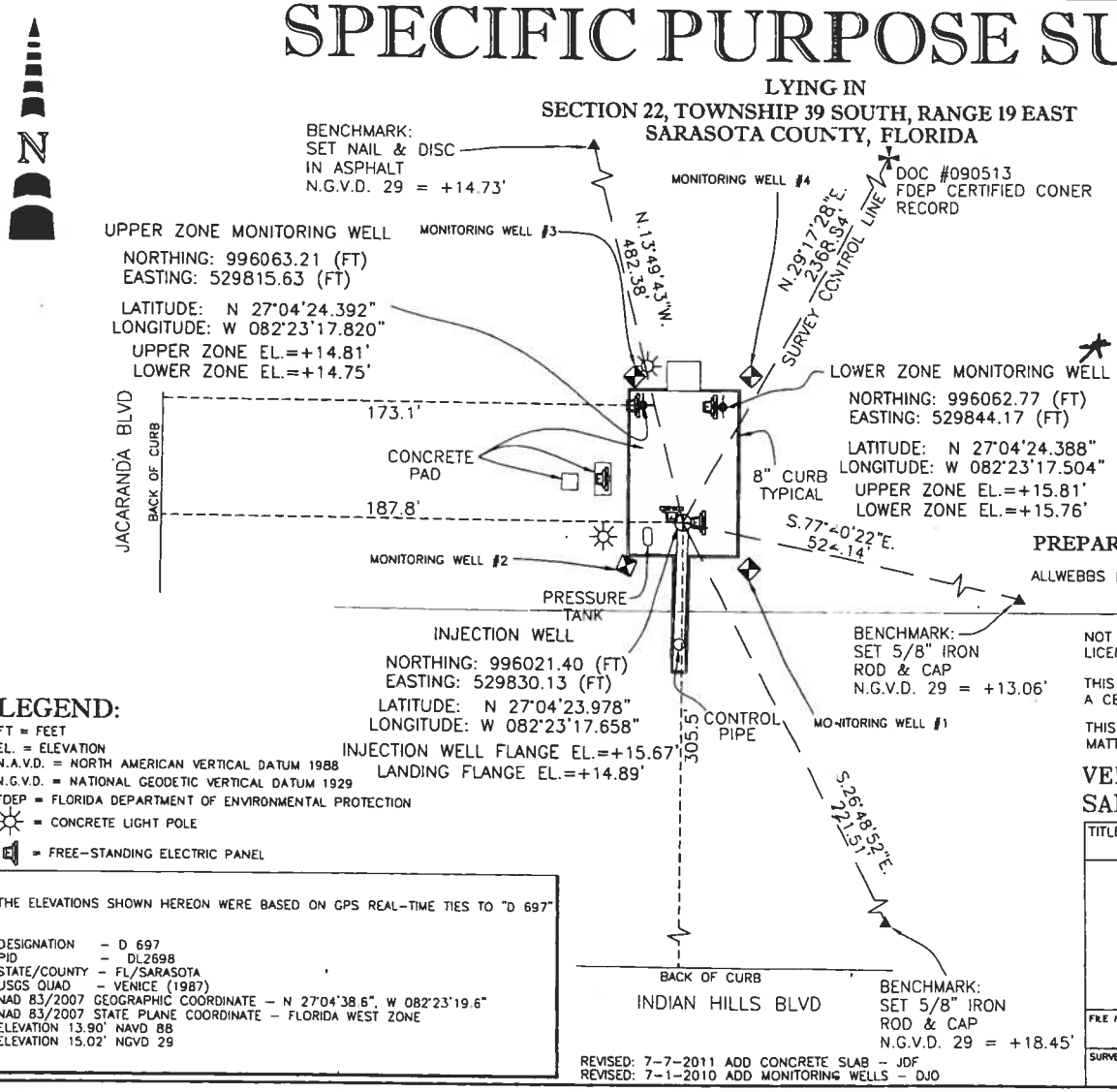
LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
940	950	LIMESTONE, very friable to friable, fine to medium grained, light tan; trace foraminifera (disc)	MR
950	960	LIMESTONE, very friable to friable, fine to medium grained, light tan; some foraminifera (disc); minor trace *Lepidocyclina*	MR
960	970	SAME AS ABOVE	MR
970	980	SAME AS ABOVE	MR
980	990	SAME AS ABOVE	MR
990	1000	DOLOMITE, sucrosic, slightly fossiliferous, moderately friable, fine to medium grained, light brown	MR
1000	1010	DOLOMITE, sucrosic, fossiliferous, moderately friable, fine to medium grained, light brown; trace limestone, weathered, clayey, moderately soft, buff; trace limestone, friable, buff; minor trace foraminifera (disc)	MR
1010	1020	DOLOMITE, sucrosic, friable, fine grained, light brown; trace dolomite, fine grained, hard, light brown; minor trace limestone, friable, buff	MR
1020	1030	DOLOMITE, friable, crystalline, fine grain, moderately hard, light brown; trace LIMESTONE, friable, buff	MR
1030	1040	SAME AS ABOVE; decreasing limestone quantity	MR
1040	1050	DOLOMITE, crystalline, hard, no vugs	MR
1050	1060	SAME AS ABOVE, with trace of clay, smooth, clean, firm, light gray	MR
1060	1070	DOLOMITE, crystalline, with accessory minerals that have weathered out, leaving vugs, hard, tight, light brown	MR
1070	1080	DOLOMITE, sucrosic, friable, hard, medium grained, crystalline, light brown; trace LIMESTONE, friable, fine grained, buff to white	MR
1080	1090	DOLOMITE, crystalline, hard, tight, slightly sucrosic, dark brown	MR
1090	1100	SAME AS ABOVE; trace LIMESTONE, friable, fine grained, tan to gray	MR
1100	1110	SAME AS ABOVE, no LIMESTONE	MR
1110	1120	DOLOMITE, crystalline, hard, dark brown; some dolomitic limestone, hard, fine grained, fossiliferous, buff to white	MR
1120	1130	DOLOMITE, crystalline, hard, brown; some dolomitic limestone, moderately hard, fossiliferous, buff	MR
1130	1140	SAME AS ABOVE; trace dolomitic limestone	MR
1140	1150	DOLOMITE, hard, micritic, buff to tan	MR
1150	1160	LIMESTONE, micritic, moderately hard, moderately friable, medium grained, light tan; trace crystalline dolomite, hard dark brown	MR
1170	1180	DOLOMITE, crystalline, moderately hard, very friable, brown; some micritic limestone, very friable, soft white; shell casts	MR

SPECIFIC PURPOSE SURVEY

LYING IN
SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST
SARASOTA COUNTY, FLORIDA



NOTES:

THIS PLAT PREPARED AS A SPECIFIC PURPOSE SURVEY FOR THE PURPOSE OF LOCATING THE RECENTLY CONSTRUCTED WELLS IN VENICE GARDENS WTF RO DEEP INJECTION WELL.

BEARINGS AND COORDINATES SHOWN HEREON ARE STATE PLANE FOR THE FLORIDA WEST ZONE NAD 83/2007 ADJUSTMENT AND ARE BASED ON GPS REAL-TIME TIES TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CERTIFIED CORNER RECORD HAVING DOCUMENT NUMBER 090513 FOR THE NORTHEAST CORNER OF SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST.

ABOVEGROUND & UNDERGROUND IMPROVEMENTS, UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED UNLESS OTHERWISE NOTED.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) AND REFERENCED TO CONTROL POINT DESIGNATION "D 697".

DATE OF LAST FIELD WORK: 7-06-2011.

BY: _____
DENIS J. O'CONNELL, JR.
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 5430

DATE SIGNED: 7/8/11

PREPARED FOR:

ALLWEBBS ENTERPRISES, INC.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THIS SPECIFIC PURPOSE SURVEY IS ONLY FOR THE LANDS AS DESCRIBED. IT IS NOT A CERTIFICATE OF TITLE, ZONING, EASEMENTS OR FREEDOM OF ENCUMBRANCES.

THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE AND ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.

LEGEND:

FT = FEET
EL. = ELEVATION
N.A.V.D. = NORTH AMERICAN VERTICAL DATUM 1988
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☼ = CONCRETE LIGHT POLE
E = FREE-STANDING ELECTRIC PANEL

THE ELEVATIONS SHOWN HEREON WERE BASED ON GPS REAL-TIME TIES TO "D 697"

DESIGNATION - D 697
PID - DL2698
STATE/COUNTY - FL/SARASOTA
USGS QUAD - VENICE (1987)
NAD 83/2007 GEOGRAPHIC COORDINATE - N 27°04'38.6", W 082°23'19.6"
NAD 83/2007 STATE PLANE COORDINATE - FLORIDA WEST ZONE
ELEVATION 13.90' NAVD 88
ELEVATION 15.02' NGVD 29

REVISED: 7-7-2011 ADD CONCRETE SLAB - JDF
REVISED: 7-1-2010 ADD MONITORING WELLS - DJO

VENICE GARDENS WTF RO DEEP INJECTION WELL
SARASOTA COUNTY

TITLE: SPECIFIC PURPOSE SURVEY

METRON
SURVEYING & MAPPING, LLC
LAND SURVEYORS·PLANNERS
LB# 7072

10970 S. CLEVELAND AVENUE,
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457
www.metronfl.com

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO:	SHEET
11728SR.DWG	495/60	11728	1 OF 1

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	(S-T-R)
5-04-2010	DJO	1" = 50'	TLM	22-39-19

STATE OF FLORIDA WELL COMPLETION REPORT

☑ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

1. *Permit Number B048825 *CUP/WUP Number N/A *DID Number _____ 62-524 Delineation No. _____
2. *Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned _____
3. *Owner's Name Sarasota County Mgmt 4. *Completion Date 6/4/11 5. Florida Unique ID VI0-149
6. 9450 Indian Hills Blvd Venice
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Sarasota *Section 22 Land Grant _____ *Township 39 *Range 19
8. Latitude 27° 04' 24.392" Longitude 082° 23' 17.820"
9. Data Obtained From: ____GPS ____Map ✓Survey Datum: ____NAD 27 ✓NAD 83 ____WGS 84

10. *Type of Work: ✓Construction ____Repair ____Modification ____Abandonment
11. *Specify Intended Use(s) of Well(s):
____Domestic
____Bottled Water Supply
____Public Water Supply (Limited Use/DOH)
____Public Water Supply (Community or Non-Community/DEP)
____Class I Injection
____Landscape Irrigation
____Recreation Area Irrigation
____Agricultural Irrigation
____Livestock
____Nursery Irrigation
____Commercial/Industrial
____Golf Course Irrigation
____Site Investigation
✓Monitoring upper
____Test
____Earth-Coupled Geothermal
____HVAC Supply
____HVAC Return
Class V Injection: ____Recharge ____Commercial/Industrial Disposal ____Aquifer Storage and Recovery ____Drainage
Remediation: ____Recovery ____Air Sparge ____Other (Describe) _____
____Other (Describe) _____

12. *Drill Method: ____Auger ____Cable Tool ✓Rotary ✓Combination (Two or More Methods) ____Jetted ____Sonic
____Horizontal Drilling ____Hydraulic Point (Direct Push) ____Other _____
13. *Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM
14. *Measuring Point (Describe) _____ Which is ____ft. ____Above ____Below Land Surface *Flowing: ____Yes ____No
15. *Casing Material: 16" Black Steel ____Galvanized ____PVC ____Stainless Steel ____Not Cased 6" Other FRP
16. *Total Well Depth 710 ft. Cased Depth 610 ft. *Open Hole: From 610 To 710 ft. *Screen: From ____ To ____ ft. Slot Size ____

17. *Abandonment: ____Other (Explain) _____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

18. *Surface Casing Diameter and Depth:
Dia 16 in. From 1.5 ft. To 278 ft. No. of Bags 152 Seal Material (Check One): ✓Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags 91 Seal Material (Check One): ____Neat Cement Bent. ____Bentonite ____Other____

19. *Primary Casing Diameter and Depth:
Dia 6 in. From 1.5 ft. To 610 ft. No. of Bags 547 Seal Material (Check One): ✓Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

20. *Liner Casing Diameter and Depth:
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

21. *Telescope Casing Diameter and Depth:
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____
Dia____in. From____ft. To____ft. No. of Bags____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other____

22. Pump Type (If Known):
____Centrifugal ____Jet ____Submersible ____Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ft. Intake Depth _____ft.

23. Chemical Analysis (When Required):
Iron _____ppm Sulfate _____ppm Chloride _____ppm
____Laboratory Test ____Field Test Kit

24. Water Well Contractor:
*Contractor Name David W. Webb *License Number 2040 E-mail Address davidwebb@allwebbs.com
*Contractor's Signature _____ *Driller's Name (Print or Type) _____
(I certify that the information provided in this report is accurate and true.)

FORM LEG-R.005.02 (6/10)

Rule 40D-3.411 (1) (a), F.A.C.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

See attached lithology

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From ___ ft.	To ___ ft.	Color	Grain Size (F, M, C)	Material

Comments:

***Detailed Site Map of Well Location**

N

see attached survey

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

PBS&J

LITHOLOGIC LOG

Location: VG DIW-1R Site, Sarasota County, FL **Owner:** Sarasota County Utility Operations **Date Drilled:** March 2011 to April 2011 **Drilling Method:** Mud rotary to 280 ft/Reverse-air to 800 **Drilling Contractor:** All Webbs Enterprises **Sampling Method**: Grab samples from drill cuttings	**SARASOTA COUNTY** **Venice Gardens RO** **Water Treatment Facility** **UZMW**

DEPTH INTERVAL (ft)		DESCRIPTION	BY
FROM	TO		
0	10	SAND, fine grained, sub-angular, quartz, colorless to light tan; much organics and shell fragments	MR
10	20	SAME AS ABOVE	MR
20	30	SAND, medium grained, rounded, quartz, colorless; some limestone, micritic, friable medium grained, fossiliferous, light tan; some phosphate grains; some shell fragments	MR
30	40	LIMESTONE, moderately friable, phosphatic, fossiliferous, light gray; some limestone, friable, soft, fossiliferous, fine grained, buff; some sand, quartz, medium grained, rounded, colorless; phosphate grains and shell fragments	MR
40	50	SAME AS ABOVE	MR
50	60	SAME AS ABOVE, more shell fragments and phosphate grains	MR
60	70	LIMESTONE, micritic, fossiliferous, moderately friable, phosphatic, light gray; some clay, moderately firm, silty, phosphate, gray; Some limestone, micritic, friable, soft, fossiliferous, buff; much shell fragments and trace sand.	MR
70	80	LIMESTONE, moderately firm, hard, phosphatic, fossiliferous; some limestone, friable, phosphatic, tan; much shell fragments and phosphate grains	MR
80	90	CLAY, silty, moderately firm, fossiliferous, phosphatic, gray; some limestone, micritic, fossiliferous, phosphatic, light gray; some limestone, friable, buff; some shell fragments.	MR
90	100	SAME AS ABOVE	MR
100	110	LIMESTONE, friable, fine grained, fossiliferous, buff; some shell fragments	MR
110	120	LIMESTONE, friable, fine grained, fossiliferous, buff; some shell fragments	MR
120	130	SAME AS ABOVE	MR
130	140	CLAY, silty, loose, sticky, phosphatic, light gray; some limestone, hard, moderately friable, phosphatic, fossiliferous, light gray; shell fragments	MR
140	150	SAME AS ABOVE; more phosphate grains in clay	MR
150	160	LIMESTONE, hard moderately friable, medium grained, phosphatic, buff; some shell fragments; trace sand, trace calcareous sandstone	MR

PBS&J

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
160	170	LIMESTONE, hard moderately friable, medium grained, phosphatic, buff; some shell fragments; trace sand, trace calcareous sandstone	MR
170	180	LIMESTONE, micritic, medium grained, moderately friable, fossiliferous, phosphatic; much shell fragments and phosphate grains	MR
180	190	LIMESTONE, moderately friable, hard, phosphatic, fossiliferous, buff to tan; some shell fragments; trace chert, white, glassy	MR
190	200	LIMESTONE, micritic, medium grained, moderately friable, fossiliferous, phosphatic; much shell fragments and phosphate grains	MR
200	210	CLAY, silty, firm, phosphatic, fossiliferous, light gray; limestone, micritic hard, medium grained phosphatic, fossiliferous, light gray; some shell fragments	MR
210	220	CLAY, silty, moderately firm, phosphatic, fossiliferous, light gray; much limestone, moderately hard, friable, micritic, phosphatic, fossiliferous, light gray; much shell fragments	MR
220	230	LIMESTONE, moderately friable, hard, fine grained, fossiliferous; some shell fragments; trace calcareous sandstone	MR
230	240	LIMESTONE, fine grained, micritic, hard, buff; trace shell fragments	MR
240	250	LIMESTONE, moderately hard, micritic, friable, fine grained, buff; some shell fragments; trace calcareous sandstone	MR
250	260	SAME AS ABOVE	MR
260	270	LIMESTONE, moderately friable, micritic, light tan; some dolostone, sandy, moderately friable to moderately hard, light tan; some shell fragments; trace limestone, micritic, hard, dark gray	MR
270	280	SAME AS ABOVE	MR
280	290	LIMESTONE, fossiliferous, phosphatic, moderately hard to hard, fine to medium grained, light gray; trace dolostone, fine grained, hard, light gray and buff; trace dolostone, sandy, phosphatic, hard, gray; trace shell fragments (mollusk)	MR
290	300	LIMESTONE, friable to very friable, buff; some limestone, weathered, clayey, soft, buff; trace limestone, fossiliferous, fine to medium grained, moderately hard, buff to light gray	MR
300	310	LIMESTONE, fossiliferous (trace oolites present), moderately friable to moderately hard, fine to medium grained, buff; trace limestone [wackestone to packstone], fossiliferous, trace phosphate specs within limestone, medium grained, buff and light gray; trace shell casts and *cyrena pompholyx* fossils	MR
310	320	LIMESTONE, fossiliferous, moderately friable to moderately hard, fine to medium grained, buff to light gray; trace limestone, fine grained, hard, light gray; trace shell casts	MR

PBS&J

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
320	330	SAND, quartz, fine to medium grained, rounded to subrounded, colorless; some limestone, [packstone], sandy (quartz, 50%, colorless), fossiliferous, trace phosphate specs within limestone, moderately hard, light gray; trace shell fragments	MR
330	340	LIMESTONE, [packstone], sandy (quartz, 40 to 50%, colorless), fossiliferous, moderately hard, grayish-tan, some of the limestone contains intraclasts of calcite; trace sand, quartz, fine grained, rounded to subrounded, colorless; trace limestone, sandy (quartz, 80 to 90%, colorless), moderately hard, light gray; trace shell casts	MR
340	350	LIMESTONE, [wackestone], fossiliferous, trace phosphate specs in the limestone, fine to medium grained, moderately hard, grayish-tan; some limestone, very friable, light tan; trace sand, quartz, fine grained, rounded, colorless; trace shell casts	MR
350	360	SANDSTONE, fine to medium grained, moderately hard to hard, tan to grayish-tan; some limestone, dolomitic, fine to medium grained, hard, brownish-gray; trace limestone, weathered, clayey, moderately soft, white; trace sand, quartz, fine grained, rounded to subrounded, colorless	MR
360	370	DOLOSTONE, fine grained, phosphatic, hard, light gray; trace limestone, phosphatic, sandy (quartz, fine grained, 50 to 60%, colorless to light gray); trace sand, quartz, fine grained, colorless	MR
370	380	DOLOSTONE, fine grained, phosphatic, hard, light gray; trace limestone, phosphatic, sandy (quartz, fine grained, 50 to 60%, colorless to light gray); trace sand, quartz, fine grained, colorless	MR
380	390	DOLOSTONE, phosphatic, fine grained, moderately friable to moderately hard, grayish-tan; trace clay, moderately firm, gray	MR
390	400	LIMESTONE, weathered, clayey, buff; some limestone, fine to medium grained, moderately hard, grayish-tan	MR
400	410	LIMESTONE, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; much sand, quartz, fine grained, subrounded, colorless and light gray	MR
410	420	LIMESTONE, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; some clay, moderately firm to firm, gray; trace sand, quartz, fine grained, subrounded, colorless and light gray	MR
420	430	CLAY, moderately firm, slightly phosphatic, dark gray; trace limestone, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; trace sand, quartz, fine grained, subrounded, colorless	MR
430	440	CLAY, moderately soft, slightly phosphatic, sandy, light gray; trace clay nodules, moderately firm, dark gray; trace limestone, friable, sandy (quartz, fine to medium grained, 20 to 30%, colorless), buff	MR
440	450	CLAY, moderately firm, smooth, beige; trace limestone, friable, sandy (quartz, fine to medium grained, 30 to 40%, colorless), buff	MR

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
450	460	CLAY, moderately firm with nodules of firm, dark gray clay, slightly phosphatic	MR
460	470	CLAY, moderately soft, contains fine grains of limestone and phosphate specs, nodules of firm, beige clay	MR
470	480	CLAY, soft to moderately soft, with nodules of moderately firm, dark gray clay, slightly phosphatic	MR
480	490	CLAY, moderately soft, with nodules of moderately firm, light gray clay, slightly phosphatic; trace limestone, friable, buff	MR
490	500	CLAY, moderately soft with nodules of firm clay, slightly phosphatic, light gray, contains fine grains of limestone, buff	MR
500	510	CLAY, moderately firm, slightly phosphatic, dark gray	MR
510	520	LIMESTONE, fossiliferous, sandy (quartz, fine grained, 50 to 60%, colorless), very friable to moderately friable, buff; trace clay, moderately firm, gray	MR
520	530	LIMESTONE, fossiliferous, sandy (quartz, fine grained, 50 to 60%, colorless), very friable to moderately friable, buff; trace clay, moderately firm, gray	MR
530	540	DOLOSTONE, fine grained, slightly phosphatic, moderately hard, grayish-tan; trace clay, moderately soft, gray	MR
540	550	LIMESTONE, [wackestone], fossiliferous, very friable to moderately friable, fine to medium grained, buff; trace shell casts	MR
550	560	LIMESTONE, fossiliferous, very friable, light tan; trace limestone, moderately hard, fine grained, light tan; trace shell casts	MR
560	570	LIMESTONE, fossiliferous, very friable to friable, fine grained, buff to light tan; much limestone, moderately hard to hard, fine grained, buff to light tan	MR
570	580	SAME AS ABOVE; trace limestone, fossiliferous, moderately hard, light gray	MR
580	590	LIMESTONE, fossiliferous, friable, fine grained, buff to light tan; some limestone, moderately friable to moderately hard, fine grained, buff to light tan	MR
590	600	LIMESTONE, fossiliferous, friable to moderately friable, fine to medium grained, light tan; trace shell casts and fossils (mollusk)	MR
600	610	SAME AS ABOVE	MR
610	620	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; much limestone, weathered, clayey, moderately soft to moderately firm, light tan; trace fossils (mollusk)	MR
620	630	LIMESTONE, fossiliferous, fine to medium grained, very friable to moderately friable, light tan	MR
630	640	LIMESTONE, fossiliferous, very friable, fine to medium grained, light tan	MR

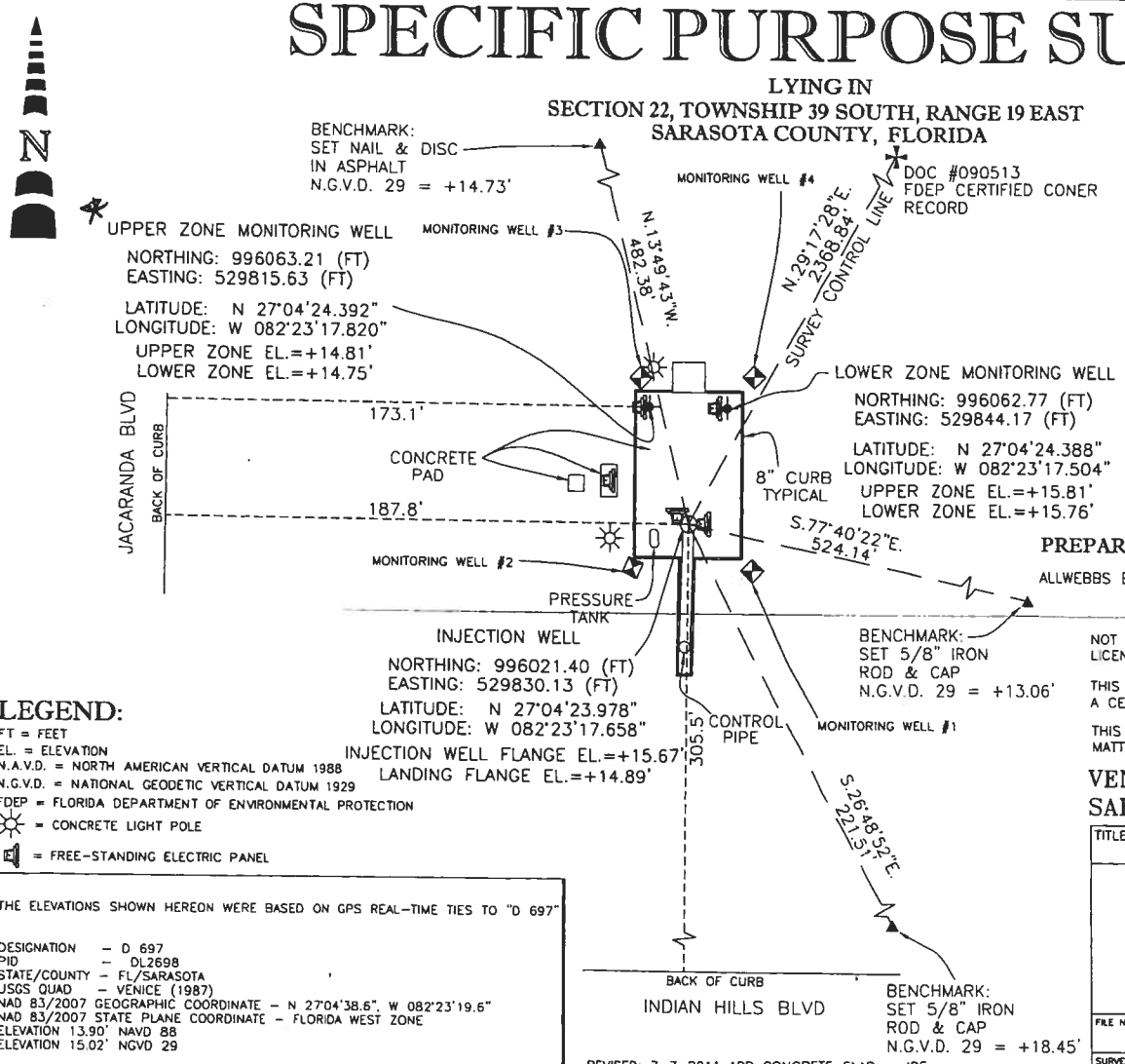
PBS&J

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
640	650	SAME AS ABOVE	MR
650	660	LIMESTONE, fossiliferous, friable to moderately friable, fine to medium grained, buff	MR
660	670	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; trace shell casts	MR
670	680	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MR
680	690	SAME AS ABOVE	MR
690	700	SAME AS ABOVE	MR
700	710	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; trace limestone, fossiliferous, moderately hard, fine grained, light tan to grayish-tan	MR
710	720	LIMESTONE, fossiliferous, very friable, fine grained, light tan	MR
720	730	SAME AS ABOVE	MR
730	740	SAME AS ABOVE; minor trace of fossils (mollusk)	MR
740	750	LIMESTONE, fossiliferous, very friable to friable, fine to medium grained, light tan to grayish-tan; trace of fossils (mollusk)	MR
750	760	LIMESTONE, fossiliferous, very friable, fine grained, light tan; trace shell casts	MR
760	770	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MR
770	780	SAME AS ABOVE	MR
780	790	LIMESTONE, fossiliferous, very friable to moderately friable, fine grained, light tan; trace limestone, weathered, clayey, moderately soft, dark tan	MR
790	800	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MR

SPECIFIC PURPOSE SURVEY

LYING IN
SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST
SARASOTA COUNTY, FLORIDA



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PROFESSIONAL SURVEYOR AND MAPPER
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ALLWEBBS ENTERPRISES, INC.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

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VENICE GARDENS WTF RO DEEP INJECTION WELL
SARASOTA COUNTY

TITLE: SPECIFIC PURPOSE SURVEY

METRON
SURVEYING & MAPPING, LLC
LAND SURVEYORS-PLANNERS
LB# 7074

10970 S. CLEVELAND AVENUE,
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457

www.metronfl.com

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO.:	SHEET
11728SR.DWG	495/60	11728	1 OF 1

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	(S-T-R)
5-04-2010	DJO	1"= 50'	TLM	22-39-19

STATE OF FLORIDA WELL COMPLETION REPORT

☑ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) ____________________

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

1.*Permit Number 804806 *CUP/WUP Number N/A *DID Number ______ 62-524 Delineation No. ______

2.*Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned ______

3.*Owner's Name Sarasota County Mgmt 4.*Completion Date 4/2/11 5. Florida Unique ID ______

6. 9450 Indian Hills Blvd Venice
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Sarasota *Section 22 Land Grant ______ *Township 39 *Range 19

8. Latitude 27° 04' 23.978" Longitude 082° 23' 17.658"

9. Data Obtained From: ___ GPS ___ Map ✓ Survey Datum: ___ NAD 27 ✓ NAD 83 ___ WGS 84

10.*Type of Work: ✓ Construction ___ Repair ___ Modification ___ Abandonment

11.*Specify Intended Use(s) of Well(s):
___ Domestic ___ Landscape Irrigation ___ Agricultural Irrigation ___ Site Investigation
___ Bottled Water Supply ___ Recreation Area Irrigation ___ Livestock ___ Monitoring
___ Public Water Supply (Limited Use/DOH) ___ Nursery Irrigation ___ Test
___ Public Water Supply (Community or Non-Community/DEP) ___ Commercial/Industrial ___ Earth-Coupled Geothermal
✓ Class I Injection ___ Golf Course Irrigation ___ HVAC Supply ___ HVAC Return
Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage
Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) ______
___ Other (Describe) ______

12.*Drill Method: ___ Auger ___ Cable Tool ✓ Rotary ✓ Combination (Two or More Methods) ___ Jetted ___ Sonic ___ Horizontal Drilling ___ Hydraulic Point (Direct Push) ___ Other ______

13.*Measured Static Water Level ______ ft. Measured Pumping Water Level ______ ft. After ______ Hours at ______ GPM

14.*Measuring Point (Describe) ______ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15.*Casing Material: ✓ Black Steel ___ Galvanized ___ PVC ___ Stainless Steel ___ Not Cased ✓ Other FRP

16.*Total Well Depth 1848 ft. Cased Depth 1313 ft. *Open Hole: From 1313 To 1848 ft. *Screen: From ___ To ___ ft. Slot Size ___

20 ~~Abandonment~~: 24" Other (Explain) not enough room under item #20

From	To	No. of Bags	Seal Material (Check One)
1297 ft.	1280 ft.	52	___ Neat Cement ___ Bentonite ✓ Other CACO3
1280 ft.	1159 ft.	475	✓ Neat Cement ___ Bentonite ___ Other
1159 ft.	945 ft.	1140	___ Neat Cement 4% Bentonite ___ Other
945 ft.	340 ft.	711	___ Neat Cement 12% Bentonite ___ Other
340 ft.	LS ft.	208 / 428	___ Neat Cement 12% Bentonite ___ Other ✓

18.*Surface Casing Diameter and Depth:

Dia	From	To	No. of Bags	Seal Material (Check One)
42" in.	LS ft.	275 ft.	1165	✓ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

19.*Primary Casing Diameter and Depth:

Dia	From	To	No. of Bags	Seal Material (Check One)
34 in.	980 ft.	794 ft.	447	✓ Neat Cement ___ Bentonite ___ Other ___
" in.	794 ft.	247 ft.	1428	___ Neat Cement ✓ Bentonite 6% Other ___
" in.	247 ft.	LS ft.	604	✓ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

20.*Liner Casing Diameter and Depth: 1297–1280

Dia	From	To	No. of Bags	Seal Material (Check One)
~~24 in.~~	~~1159 ft.~~	~~1280 ft.~~	~~52 / 475~~	~~✓ Neat Cement ___ Bentonite ✓ Other CaCO3~~
~~in.~~	~~945 ft.~~	~~1159 ft.~~	~~1140~~	~~Neat Cement 4% Bentonite ___ Other~~
~~in.~~	~~LS ft.~~	~~945 ft.~~	~~711~~	~~Neat Cement 12% Bentonite ___ Other~~

21.*~~Telescope~~ INJECTION Casing Diameter and Depth:

Dia	From	To	No. of Bags	Seal Material (Check One)
16.6 in.	LS ft.	1313 ft.	___	___ Neat Cement ___ Bentonite ✓ Other Packer
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower ______ Pump Capacity (GPM) ______
Pump Depth ______ ft. Intake Depth ______ ft.

23. Chemical Analysis (When Required):
Iron ______ ppm Sulfate ______ ppm Chloride ______ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:
*Contractor Name David W. Webb *License Number 2040 E-mail Address davidwebb@allwebbs.com
*Contractor's Signature [signature] *Driller's Name (Print or Type) Dana Webb, Gilbert Rivera, David Webb, Jr.
(I certify that the information provided in this report is accurate and true.)

FORM LEG-R.005.02 (6/10) Rule 40D-3.411 (1) (a), F.A.C.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

see attached lithology

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material

Comments:

***Detailed Site Map of Well Location**

N

see attached survey

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

FORM LEG-R.005.02 (6/10)

Rule 40D-3.411 (1) (a), F.A.C.

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LITHOLOGIC LOG

Location: VG DIW-1R Site, Sarasota County, FL **Owner:** Sarasota County Utility Operations **Date Drilled:** July 2010 to **Drilling Method:** Mud rotary to 285 ft/Reverse-air to 1,026 **Drilling Contractor:** All Webbs Enterprises **Sampling Method**: Grab samples from drill cuttings	**SARASOTA COUNTY** **Venice Gardens RO** **Water Treatment Facility** **DIW**

DEPTH INTERVAL (ft)		DESCRIPTION	BY
FROM	TO		
0	10	SAND, fine grained, sub-angular, quartz, colorless to light tan; much organics and shell fragments	MR
10	20	SAME AS ABOVE	MR
20	30	SAND, medium grained, rounded, quartz, colorless; some limestone, micritic, friable medium grained, fossiliferous, light tan; some phosphate grains; some shell fragments	MR
30	40	LIMESTONE, moderately friable, phosphatic, fossiliferous, light gray; some limestone, friable, soft, fossiliferous, fine grained, buff; some sand, quartz, medium grained, rounded, colorless; phosphate grains and shell fragments	MR
40	50	SAME AS ABOVE	MR
50	60	SAME AS ABOVE, more shell fragments and phosphate grains	MR
60	70	LIMESTONE, micritic, fossiliferous, moderately friable, phosphatic, light gray; some clay, moderately firm, silty, phosphate, gray; Some limestone, micritic, friable, soft, fossiliferous, buff; much shell fragments and trace sand.	MR
70	80	CLAY, silty, moderately firm, fossiliferous, phosphatic, gray; some limestone, micritic, fossiliferous, phosphatic, light gray; some limestone, friable, buff; some shell fragments.	MR
80	90	LIMESTONE, moderately firm, hard, phosphatic, fossiliferous; some limestone, friable, phosphatic, tan; much shell fragments and phosphate grains	MR
90	100	LIMESTONE, friable, fine grained, fossiliferous, phosphatic, light tan; some shell fragments; trace phosphate grains; trace clay, silty, phosphatic, moderately soft, gray.	MR
100	110	LIMESTONE, friable, fine grained, fossiliferous, buff; some shell fragments	MR
110	120	SAME AS ABOVE; more shell fragments	MR
120	130	CLAY, silty, loose, sticky, phosphatic, light gray; some limestone, hard, moderately friable, phosphatic, fossiliferous, light gray; shell fragments	MR
130	140	SAME AS ABOVE	MR
140	150	SAME AS ABOVE; more phosphate grains in clay	MR
150	160	SAME AS ABOVE	MR

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LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
160	170	LIMESTONE, hard moderately friable, medium grained, phosphatic, buff; some shell fragments; trace sand, trace calcareous sandstone	MR
170	180	SAME AS ABOVE	MR
180	190	LIMESTONE, moderately friable, hard, phosphatic, fossiliferous, buff to tan; some shell fragments; trace chert, white, glassy	MR
190	200	LIMESTONE, micritic, medium grained, moderately friable, fossiliferous, phosphatic; much shell fragments and phosphate grains	MR
200	210	CLAY, silty, firm, phosphatic, fossiliferous, light gray; limestone, micritic hard, medium grained phosphatic, fossiliferous, light gray; some shell fragments	MR
210	220	CLAY, silty, moderately firm, phosphatic, fossiliferous, light gray; much limestone, moderately hard, friable, micritic, phosphatic, fossiliferous, light gray; much shell fragments	MR
220	230	LIMESTONE, moderately hard, micritic, friable, fine grained, buff; some shell fragments; trace calcareous sandstone	MR
230	240	LIMESTONE, fine grained, micritic, hard, buff; trace shell fragments	MR
240	250	LIMESTONE, moderately friable, hard, fine grained, fossiliferous; some shell fragments; trace calcareous sandstone	MR
250	260	SAME AS ABOVE	MR
260	270	LIMESTONE, moderately friable, micritic, light tan; some dolostone, sandy (medium grained, 15%, colorless), moderately friable to moderately hard, light tan; some shell fragments; trace limestone, micritic, hard, dark gray	MR
270	280	No Sample Collected	
280	290	LIMESTONE, fossiliferous, phosphatic, moderately hard to hard, fine to medium grained, light gray; trace dolostone, fine grained, hard, light gray and buff; trace dolostone, sandy (medium grained, 30 to 40%, colorless), phosphatic, hard, gray; trace shell fragments (mollusk)	MG
290	300	LIMESTONE, friable to very friable, buff; some limestone, weathered, clayey, soft, buff; trace limestone, fossiliferous, fine to medium grained, moderately hard, buff to light gray	MG
300	310	LIMESTONE, fossiliferous (trace oolites present), moderately friable to moderately hard, fine to medium grained, buff; trace limestone [wackestone to packstone], fossiliferous, trace phosphate specs within limestone, medium grained, buff and light gray; trace shell casts and *cyrena pompholyx* fossils	MG
310	320	LIMESTONE, fossiliferous, moderately friable to moderately hard, fine to medium grained, buff to light gray; trace limestone, fine grained, hard, light gray; trace shell casts	MG

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LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
320	330	SAND, quartz, fine to medium grained, rounded to subrounded, colorless; some limestone, [packstone], sandy (quartz, 50%, colorless), fossiliferous, trace phosphate specs within limestone, moderately hard, light gray; trace shell fragments	MG
330	340	LIMESTONE, [packstone], sandy (quartz, 40 to 50%, colorless), fossiliferous, moderately hard, grayish-tan, some of the limestone contains intraclasts of calcite; trace sand, quartz, fine grained, rounded to subrounded, colorless; trace limestone, sandy (quartz, 80 to 90%, colorless), moderately hard, light gray; trace shell casts	MG
340	350	LIMESTONE, [wackestone], fossiliferous, trace phosphate specs in the limestone, fine to medium grained, moderately hard, grayish-tan; some limestone, very friable, light tan; trace sand, quartz, fine grained, rounded, colorless; trace shell casts	MG
350	360	SANDSTONE, fine to medium grained, moderately hard to hard, tan to grayish-tan; some limestone, dolomitic, fine to medium grained, hard, brownish-gray; trace limestone, weathered, clayey, moderately soft, white; trace sand, quartz, fine grained, rounded to subrounded, colorless	MG
360	370	SAND, fine grained, round to subrounded, colorless; much phosphate specs; some limestone, very friable, sandy, buff	MG
370	380	DOLOSTONE, fine grained, phosphatic, hard, light gray; trace limestone, phosphatic, sandy (quartz, fine grained, 50 to 60%, colorless to light gray); trace sand, quartz, fine grained, colorless	MG
380	390	DOLOSTONE, phosphatic, fine grained, moderately friable to moderately hard, grayish-tan; trace clay, moderately firm, gray	MG
390	400	LIMESTONE, weathered, clayey, buff; some limestone, fine to medium grained, moderately hard, grayish-tan	MG
400	410	LIMESTONE, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; much sand, quartz, fine grained, subrounded, colorless and light gray	MG
410	420	LIMESTONE, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; some clay, moderately firm to firm, gray; trace sand, quartz, fine grained, subrounded, colorless and light gray	MG
420	430	CLAY, moderately firm, slightly phosphatic, dark gray; trace limestone, very friable, sandy (quartz, fine to medium grained, 15 to 25%, colorless), buff; trace sand, quartz, fine grained, subrounded, colorless	MG
430	440	CLAY, moderately soft, slightly phosphatic, sandy, light gray; trace clay nodules, moderately firm, dark gray; trace limestone, friable, sandy (quartz, fine to medium grained, 20 to 30%, colorless), buff	MG
440	450	CLAY, moderately firm, smooth, beige; trace limestone, friable, sandy (quartz, fine to medium grained, 30 to 40%, colorless), buff	MG

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
450	460	CLAY, moderately firm with nodules of firm, dark gray clay, slightly phosphatic	MG
460	470	CLAY, moderately soft, contains fine grains of limestone and phosphate specs, nodules of firm, beige clay	MG
470	480	CLAY, soft to moderately soft, with nodules of moderately firm, dark gray clay, slightly phosphatic	MG
480	490	CLAY, moderately soft, with nodules of moderately firm, light gray clay, slightly phosphatic; trace limestone, friable, buff	MG
490	500	CLAY, moderately soft with nodules of firm clay, slightly phosphatic, light gray, contains fine grains of limestone, buff	MG
500	510	CLAY, moderately firm, slightly phosphatic, dark gray	MG
510	520	DOLOSTONE, fine grained, slightly phosphatic, moderately hard, grayish-tan; trace clay, moderately soft, gray	MG
520	530	LIMESTONE, fossiliferous, sandy (quartz, fine grained, 50 to 60%, colorless), very friable to moderately friable, buff; trace clay, moderately firm, gray	MG
530	540	LIMESTONE, [packstone], fossiliferous, very friable, buff; trace fossils (gastropods and mollusk)	MG
540	550	LIMESTONE, [wackestone], fossiliferous, very friable to moderately friable, fine to medium grained, buff; trace shell casts	MG
550	560	LIMESTONE, fossiliferous, very friable, light tan; trace limestone, moderately hard, fine grained, light tan; trace shell casts	MG
560	570	LIMESTONE, fossiliferous, very friable to friable, fine grained, buff to light tan; much limestone, moderately hard to hard, fine grained, buff to light tan	MG
570	580	SAME AS ABOVE; trace limestone, fossiliferous, moderately hard, light gray	MG
580	590	LIMESTONE, fossiliferous, friable, fine grained, buff to light tan; some limestone, moderately friable to moderately hard, fine grained, buff to light tan	MG
590	600	LIMESTONE, fossiliferous, friable to moderately friable, fine to medium grained, light tan; trace shell casts and fossils (mollusk)	MG
600	610	SAME AS ABOVE	MG
610	620	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; much limestone, weathered, clayey, moderately soft to moderately firm, light tan; trace fossils (mollusk)	MG
620	630	LIMESTONE, fossiliferous, fine to medium grained, very friable to moderately friable, light tan	MG
630	640	LIMESTONE, fossiliferous, very friable, fine to medium grained, light tan	MG

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
640	650	SAME AS ABOVE	MG
650	660	LIMESTONE, fossiliferous, friable to moderately friable, fine to medium grained, buff	MG
660	670	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; trace shell casts	MG
670	680	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MG
680	690	SAME AS ABOVE	MG
690	700	SAME AS ABOVE	MG
700	710	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan; trace limestone, fossiliferous, moderately hard, fine grained, light tan to grayish-tan	MG
710	720	LIMESTONE, fossiliferous, very friable, fine grained, light tan	MG
720	730	SAME AS ABOVE	MG
730	740	SAME AS ABOVE; minor trace of fossils (mollusk)	MG
740	750	LIMESTONE, fossiliferous, very friable to friable, fine to medium grained, light tan to grayish-tan; trace of fossils (mollusk)	MG
750	760	LIMESTONE, fossiliferous, very friable, fine grained, light tan; trace shell casts	MG
760	770	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MG
770	780	SAME AS ABOVE	MG
780	790	LIMESTONE, fossiliferous, very friable to moderately friable, fine grained, light tan; trace limestone, weathered, clayey, moderately soft, dark tan	MG
790	800	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan	MG
800	810	LIMESTONE, fossiliferous, very friable to friable, fine grained, light tan; minor trace shell casts	MG
810	820	LIMESTONE, very friable to friable, fine grained, light tan; some dolostone, fine grained, hard, grayish-tan; trace limestone, weathered, clayey, moderately firm, light gray; trace fossils (gastropod and mollusk)	MG
820	830	LIMESTONE, very friable to friable, fine grained, light tan; trace dolostone, fine grained, hard, grayish-tan	MG
830	840	LIMESTONE, very friable to friable, fine to medium grained, light tan; minor trace fossils (gastropod and mollusk)	MG
840	850	LIMESTONE, fossiliferous, very friable, fine grained, light tan	MG
850	860	LIMESTONE, fossiliferous, very friable to moderately friable, fine to medium grained, light tan	MG
860	870	SAME AS ABOVE	MG
870	880	LIMESTONE, very friable to friable, fine grained, light tan	MG

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
880	890	LIMESTONE, very friable to friable, fine grained, light tan; trace foraminifera (disc)	MG
890	900	LIMESTONE, very friable to friable, fine grained, light tan; some foraminifera (disc)	MG
900	910	LIMESTONE, very friable, fine grained, light tan	MG
910	920	SAME AS ABOVE	MG
920	930	LIMESTONE, very friable to friable, fine grained, light tan	MG
930	940	LIMESTONE, very friable to moderately friable, fine to medium grained, light tan; some foraminifera (disc); trace limestone, fossiliferous	MG
940	950	LIMESTONE, very friable to friable, fine to medium grained, light tan; trace foraminifera (disc)	MG
950	960	LIMESTONE, very friable to friable, fine to medium grained, light tan; some foraminifera (disc); minor trace *Lepidocyclina*	MG
960	970	SAME AS ABOVE	MG
970	980	DOLOMITE, sucrosic, slightly vuggy, moderately friable, fine to medium grained, brown; some limestone, fossiliferous, moderately hard, fine to medium grained, buff	MG
980	990	DOLOMITE, sucrosic, moderately friable, fine to medium grained, light brown; trace limestone, friable, buff	MG
990	1000	DOLOMITE, sucrosic, slightly fossiliferous, moderately friable, fine to medium grained, light brown	MG
1000	1010	DOLOMITE, sucrosic, fossiliferous, moderately friable, fine to medium grained, light brown; trace limestone, weathered, clayey, moderately soft, buff; trace limestone, friable, buff; minor trace foraminifera (disc)	MG
1010	1020	DOLOMITE, sucrosic, friable, fine grained, light brown; trace dolomite, fine grained, hard, light brown; minor trace limestone, friable, buff	MG
1020	1030	DOLOMITE, friable, crystalline, fine grain, moderately hard, light brown; trace LIMESTONE, friable, buff	MR
1030	1040	SAME AS ABOVE; decreasing limestone quantity	MR
1040	1050	DOLOMITE, crystalline, hard, no vugs	MR
1050	1060	SAME AS ABOVE, with trace of clay, smooth, clean, firm, light gray	MR
1060	1070	DOLOMITE, crystalline, with accessory minerals that have weathered out, leaving vugs, hard, tight, light brown	MR
1070	1080	DOLOMITE, sucrosic, friable, hard, medium grained, crystalline, light brown; trace LIMESTONE, friable, fine grained, buff to white	MR
1074	1084	**CORE 1**: DOLOMITE, crystalline, hard to moderately hard, some sucrosic which is friable, vugs present but formation is very tight, trace shell casts, trace lime sand.	MR
1080	1090	DOLOMITE, crystalline, hard, tight, slightly sucrosic, dark brown	MR

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LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
1090	1100	SAME AS ABOVE; trace LIMESTONE, friable, fine grained, tan to gray	MR
1100	1110	SAME AS ABOVE, no LIMESTONE	MR
1110	1120	DOLOMITE, crystalline, hard, dark brown; some dolomitic limestone, hard, fine grained, fossiliferous, buff to white	MR
1120	1130	DOLOMITE, crystalline, hard, brown; some dolomitic limestone, moderately hard, fossiliferous, buff	MR
1130	1140	SAME AS ABOVE; trace dolomitic limestone	MR
1140	1150	DOLOMITE, hard, micritic, buff to tan	MR
1150	1160	LIMESTONE, micritic, moderately hard, moderately friable, medium grained, light tan; trace crystalline dolomite, hard dark brown	MR
1166	1178	**CORE 2**:LIMESTONE, micritic, transitioning into dolotomized limestone, moderately hard grained, moderately friable, fossiliferous, buff to gray- stringer of sucrosic vuggy dolomite (mid core) crystalline, very hard, dark brown	MR
1170	1180	DOLOMITE, crystalline, moderately hard, very friable, brown; some micritic limestone, very friable, soft white; shell casts	MR
1180	1190	SAME AS ABOVE	MR
1190	1200	LIMESTONE, micritic, very friable, medium grained, fossiliferous, buff to light tan	MR
1200	1210	SAME AS ABOVE	MR
1210	1220	SAME AS ABOVE; trace CHERT, hard, dark gray	MR
1220	1230	SAME AS ABOVE	MR
1230	1240	SAME AS ABOVE	MR
1240	1250	LIMESTONE, micritic, very friable, moderately hard, medium grained, light tan; trace shell fragments; trace dolomitic limestone, friable, light brown	MR
1250	1260	SAME AS ABOVE	MR
1260	1270	SAME AS ABOVE	MR
1270	1280	LIMESTONE, micritic, moderately hard, very friable, fine grained, fossiliferous, buff; trace shell fragments	MR
1280	1290	LIMESTONE, micritic, moderately hard, fine grained, fossiliferous, buff; trace dolomite, crystalline, hard, dark brown; trace shell fragments	MR
1293	1303	**CORE 3:** LIMESTONE, dolotomized, moderately hard, fine grained fossiliferous, buff; transitioning into crystalline dolomite, with vugs very hard, and moderately friable; micritic limestone at the bottom of the core, moderately friable, fine grained, fossiliferous, gray	MR
1290	1300	LIMESTONE, dolotomized, hard, medium grained, buff; much dolomite, crystalline, hard, dark brown; trace shell fragments	MR

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
1300	1310	LIMESTONE, micritic, fossiliferous, moderately hard grained, very friable, buff; much dolomite, crystalline, hard (sucrosic); trace shell fragments	MR
1310	1320	SAME AS ABOVE; some dolomite, crystalline, hard (glassy fragments), dark brown	MR
1320	1330	SAME AS AVOVE	MR
1330	1340	SAME AS ABOVE	MR
1340	1350	DOLOMITE, crystalline, hard, dark brown; some limestone, micritic, moderately friable, medium grained, fossiliferous, buff	MR
1350	1360	DOLOMITE, hard, fine grained, dark brown; much limestone, micritic, friable, fossiliferous, buff; trace shell fragments	MR
1360	1370	SAME AS ABOVE; quantity of dolomite is increasing	MR
1370	1380	**CORE 4:** LIMESTONE, micritic and dolotomized-some interclastic crystalline dolomite, moderately hard and trace of some shell fragments in matrix	MR
1380	1390	LIMESTONE, micritic, moderately hard, fine grained, buff to light gray; some dolomite, crystalline, hard, dark brown	MR
1390	1400	LIMESTONE, micritic, friable, fossiliferous, buff to light gray (sand sized); trace dolomite, hard, brown; trace shell fragments	MR
1400	1410	SAME AS ABOVE	MR
1410	1420	LIMESTONE, micritic, friable, fossiliferous, buff to gray; some dolo-sand, crystalline, hard, dark brown; some shell fragments	MR
1420	1430	SAME AS ABOVE	MR
1430	1440	DOLO-SAND, crystalline, hard, dark brown; some limestone, friable, fine grained, chalky, fossiliferous; trace weathered limestone clay	MR
1440	1450	DOLOMITE, crystalline, very hard, dark brown; some limestone sand, friable, light brown	MR
1450	1460	DOLOMITE, crystalline, very hard, dark brown; trace limestone, micritic, friable, fine grained, buff	MR
1460	1470	DOLOMITE, crystalline, very hard, dark brown	MR
1470	1480	SAME AS ABOVE	MR
1480	1490	SAME AS ABOVE	MR
1490	1500	SAME AS ABOVE	MR
1500	1510	SAME AS ABOVE	MR
1510	1520	SAME AS ABOVE	MR
1520	1530	DOLO-SAND, crystalline, hard, brown	MR
1530	1540	DOLOMITE, crystalline, hard, dark brown; some dolo-sand	MR
1540	1550	SAME AS ABOVE	MR

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LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
1550	1560	DOLOSTONE, crystalline, hard, dark brown to gray	MR
1560	1570	SAME AS ABOVE	MR
1570	1580	DOLOMITE, crystalline, hard, moderately friable, dark brown; some limestone, micritic, friable, buff	MR
1580	1590	SAME AS ABOVE	MR
1590	1600	SAME AS ABOVE	MR
1600	1610	DOLOSTONE, cyrstaline, hard, glassy, dark brown to black	MR
1610	1620	DOLOMITE, crystalline, hard, dark brown; some limestone, micritic, moderately friable, buff	MR
1620	1630	DOLOMITE, crystalline, moderately hard, brown; some limestone, micritic, friable, buff	MR
1630	1640	DOLOSTONE, crystalline, hard, dark brown; some dolosand, fine, crystalline, friable and light brown	MR
1640	1650	DOLOSAND, crystalline, friable, very fine, light brown; some dolostone, crystalline, hard, dark brown	MR
1650	1660	DOLOSTONE, crystalline, very hard, dark gray	MR
1660	1670	DOLOMITE, crystalline, moderately friable, hard, light brown; some dolosand, crystalline, friable, light brown; trace limestone, micritic, friable, chalky, buff	MR
1670	1680	DOLOMITE, crystalline, hard, light brown	MR
1680	1690	SAME AS ABOVE	MR
1690	1700	SAME AS ABOVE; trace limestone, micritic, moderately friable, buff	MR
1700	1710	DOLOSTONE, hard, crystalline, dark gray; some dolomite, hard, crystalline, sucrosic, friable, light brown; trace limestone, friable, buff	MR
1710	1720	SAME AS ABOVE	MR
1720	1730	DOLOMITE, hard, crystalline, friable, dark brown to black; trace limestone, friable, buff	MR
1730	1740	SAME AS ABOVE; dolomite is lighter and more friable	MR
1740	1750	SAME AS ABOVE; dolomite hardness is increased	MR
1750	1760	DOLOMITE, hard, crystalline, friable, light brown to brown; some sucrosic dolomite, very friable, light brown; trace limestone, friable, buff	MR
1760	1770	DOLOSTONE, very hard, crystalline, black to light gray; possible evaporate, in matrix (trace); some dolomite, moderately friable, hard, crystalline, light brown; trace limestone, friable, buff	MR
1770	1780	DOLOMITE, moderately friable, crystalline, light brown; trace limestone, friable, buff; (no evap)	MR
1780	1790	SAME AS ABOVE	MR
1790	1800	LIMESTONE, dolotomized, micritic, hard, light tan ; trace dolostone, hard crystalline, black to brown; some limestone, friable, buff	MR

PBS&J

LITHOLOGIC LOG

DEPTH INTERVAL (ft)		DESCRIPTION	BY
1800	1810	DOLOSAND (dolotomized limestone), friable, light tan; some limestone, friable, buff	MR
1810	1820	SAME AS ABOVE, more dolomitic limestone, less friable limestone	MR
1820	1830	DOLOMITIC LIMESTONE, hard, moderately friable, light tan; trace dolostone, crystalline, black.	MR
1830	1840	SAME AS ABOVE	MR
1840	1850	SAME AS ABOVE	MR
1850	1860	SAME AS ABOVE	MR
1860	1870	LIMESTONE, micritic, friable, fossilferous, buff to tan; trace black specs (drilling equip?)	MR
1870	1880	SAME AS ABOVE, trace dolomitic limestone, moderately hard, friable, tan	MR
1880	1890	SAME AS ABOVE; increase in dolomitic limestone	MR
1890	1900	LIMESTONE, micritic, friable, fossiliferous, buff; trace dolomitic limestone, moderately hard, friable, tan	MR

[ ] Denotes utilization of Dunham's classification system
Much indicates that the sample was composed of 30 to 50 percent of the identified constituent.
Some indicates that the sample was composed of 10 to 30 percent of the identified constituent.
Trace indicates that the sample was composed of less than 10 percent of the identified constituent.

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Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: N1012408

Page 1 of 6

All subsequent pages are identified by: N1012408 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Andy Konopacki

Client: All Webbs Enterprises, Inc.

309 Commerce Way

Jupiter, FL 33458

Phone: 561-746-2079

Fax: 561-746-4199

E-mail:

Project Name: WTF RO-Sarasota

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 ..es the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Comments:

Approved by:

Andrew Konopacki
Operations Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: All Webbs Enterprises, Inc.

Client Project: WTF RO-Sarasota

Lab Project: N1012408

Report Date: 12/28/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-01	30' 1720	Ground Water	grab	12/20/10 16:00	12/14/10 14:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Ammonia	0.66		0.01	0.04	mg/L as N	EPA350.1	NB101222006	12/21/10 11:10	AS	E84380
Chloride	17300		1	4	mg/L	SM4500Cl-E	NB101222011	12/21/10 15:26	SE	E84380
Nitrogen, Total Kjeldahl	1.43		0.05	0.20	mg/L as N	EPA351.2	NB101223025	12/23/10 9:53	AS	E84380
pH	7.70	Q	0.01	0.01	std units	SM4500H-B	NB101221011	12/20/10 16:20	AS	E84380
Specific Conductivity	49200		1	1	µmhos/cm	SM2510B	NB101223026	12/23/10 14:30	SE	E84380
Sulfate	3640		2	8	mg/L	ASTM-D516-90	NB101227001	12/23/10 14:12	AS	E84380
Total Dissolved Solids	37800		20	20	mg/L	SM2540C	NB101222007	12/20/10 17:00	AS	E84380

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-02	30' 1750	Ground Water	grab	12/20/10 16:00	12/16/10 9:30

rameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Ammonia	0.65		0.01	0.04	mg/L as N	EPA350.1	NB101222006	12/21/10 11:10	AS	E84380
Chloride	16900		1	4	mg/L	SM4500Cl-E	NB101222011	12/21/10 15:26	SE	E84380
Nitrogen, Total Kjeldahl	1.06		0.05	0.20	mg/L as N	EPA351.2	NB101223025	12/23/10 9:53	AS	E84380
pH	7.69	Q	0.01	0.01	std units	SM4500H-B	NB101221011	12/20/10 16:20	AS	E84380
Specific Conductivity	48900		1	1	µmhos/cm	SM2510B	NB101223026	12/23/10 14:30	SE	E84380
Sulfate	3010		2	8	mg/L	ASTM-D516-90	NB101227001	12/23/10 14:12	AS	E84380
Total Dissolved Solids	38200		20	20	mg/L	SM2540C	NB101222007	12/20/10 17:00	AS	E84380

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-03	30' 1780	Ground Water	grab	12/20/10 16:00	12/16/10 14:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Chloride	16500		1	4	mg/L	SM4500Cl-E	NB101222011	12/21/10 15:26	SE	E84380
pH	7.69	Q	0.01	0.01	std units	SM4500H-B	NB101221011	12/20/10 16:20	AS	E84380
Specific Conductivity	49300		1	1	µmhos/cm	SM2510B	NB101223026	12/23/10 14:30	SE	E84380
Sulfate	3330		2	8	mg/L	ASTM-D516-90	NB101227001	12/23/10 14:12	AS	E84380
Total Dissolved Solids	37200		20	20	mg/L	SM2540C	NB101222007	12/20/10 17:00	AS	E84380

b ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: All Webbs Enterprises, Inc.

Client Project: WTF RO-Sarasota

Lab Project: N1012408

Report Date: 12/28/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-04	30' 1810	Ground Water	grab	12/20/10 16:00	12/16/10 19:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Ammonia	0.78		0.01	0.04	mg/L as N	EPA350.1	NB101222006	12/21/10 11:10	AS	E84380
Chloride	13700		1	4	mg/L	SM4500Cl-E	NB101222011	12/21/10 15:26	SE	E84380
Nitrogen, Total Kjeldahl	1.96		0.05	0.20	mg/L as N	EPA351.2	NB101223025	12/23/10 9:53	AS	E84380
pH	7.77	Q	0.01	0.01	std units	SM4500H-B	NB101221011	12/20/10 16:20	AS	E84380
Specific Conductivity	45600		1	1	µmhos/cm	SM2510B	NB101223026	12/23/10 14:30	SE	E84380
Sulfate	3060		2	8	mg/L	ASTM-D516-90	NB101227001	12/23/10 14:12	AS	E84380
Total Dissolved Solids	37300		20	20	mg/L	SM2540C	NB101222007	12/20/10 17:00	AS	E84380

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-05	30' 1840	Ground Water	grab	12/20/10 16:00	12/17/10 11:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Chloride	15200		1	4	mg/L	SM4500Cl-E	NB101222011	12/21/10 15:26	SE	E84380
	7.77	Q	0.01	0.01	std units	SM4500H-B	NB101221011	12/20/10 16:20	AS	E84380
Specific Conductivity	49500		1	1	µmhos/cm	SM2510B	NB101223026	12/23/10 14:30	SE	E84380
Sulfate	3490		2	8	mg/L	ASTM-D516-90	NB101227001	12/23/10 14:12	AS	E84380
Total Dissolved Solids	36900		20	20	mg/L	SM2540C	NB101222007	12/20/10 17:00	AS	E84380

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-06	30' 1870	Ground Water	grab	12/20/10 16:00	12/17/10 13:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Ammonia	0.79		0.01	0.04	mg/L as N	EPA350.1	NB101222006	12/21/10 11:10	AS	E84380
Chloride	17700		1	4	mg/L	SM4500Cl-E	NB101222011	12/21/10 15:26	SE	E84380
Nitrogen, Total Kjeldahl	1.12		0.05	0.20	mg/L as N	EPA351.2	NB101223025	12/23/10 9:53	AS	E84380
pH	7.69	Q	0.01	0.01	std units	SM4500H-B	NB101221011	12/20/10 16:20	AS	E84380
Specific Conductivity	45900		1	1	µmhos/cm	SM2510B	NB101223026	12/23/10 14:30	SE	E84380
Sulfate	2810		2	8	mg/L	ASTM-D516-90	NB101227001	12/23/10 14:12	AS	E84380
Total Dissolved Solids	37200		20	20	mg/L	SM2540C	NB101222007	12/20/10 17:00	AS	E84380

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-07	30' 1900	Ground Water	grab	12/20/10 16:00	12/17/10 16:00

rameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: All Webbs Enterprises, Inc.

Client Project: WTF RO-Sarasota

Lab Project: N1012408

Report Date: 12/28/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012408-07	30' 1900	Ground Water	grab	12/20/10 16:00	12/17/10 16:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Chloride	20100		1	4	mg/L	SM4500Cl-E	NB101222011	12/21/10 15:26	SE	E84380
pH	7.79	Q	0.01	0.01	std units	SM4500H-B	NB101221011	12/20/10 16:20	AS	E84380
Specific Conductivity	44500		1	1	µmhos/cm	SM2510B	NB101223026	12/23/10 14:30	SE	E84380
Sulfate	3060		2	8	mg/L	ASTM-D516-90	NB101227001	12/23/10 14:12	AS	E84380
Total Dissolved Solids	38700		20	20	mg/L	SM2540C	NB101222007	12/20/10 17:00	AS	E84380

Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT #: N1012408

Page 1 of 2

Client: AWE
Address: on File
Phone: ______ Fax: ______

Report To: Allwebbs
Bill To:
P.O. #:
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: WTF/UG CR DIW
Project Location:
Customer Type:
Kit #:
REQUESTED DUE DATE: 12/29/10

Sampled By (PRINT): Jay Szyrtzentruber
Sampler Signature: [signature]

Matrix	Sample Description		Date	Time	Type	pH	ICE	Cond, chlor	pH, Sulfate	TDS	Ammonia/TKN	Sample ID #
GW	30' 1720	A	12-14	2:00PM				✓	✓	✓		-01A
↓	1720	B	12-14	2:00PM							✓	B
	1750	A	12-16	9:30AM				✓	✓	✓		-02A
	1750	B	12-16	9:30AM		1D					✓	B
	1780		12-16	1400				✓	✓	✓		-03A
	1810	A	12-16	7:00PM				✓	✓	✓		-04A
	1810	B	12-16	7:00PM							✓	B
	1840		12-17	11:00AM				✓	✓	✓		-05A

Bottle Lot #: 9-036-006; 8-184-009

COMMENTS: 24 Rush 1.8°

OKAY TO RUN AS IS...
CLIENT INITIAL:
SAMPLES ON ICE: (Yes) No

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
[signature]	122010	0930	H. Crook	122010	0930
H. Crook	122010	1600	Aledge	12/20/10	1600

1050 Endeavor Ct., Nokomis, FL 34275-3623 • (941)488-8103 • FAX 484-6774 • 10090 Bavaria Rd., Fort Myers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536

Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N1012408

Page 2 of 2

Client AWE

Address on File

Phone _____ Fax _____

Report To: Allwebbs

Bill To: _____

P.O. # _____

Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: WTF/WG FR DEW

Project Location: _____

Customer Type: _____

Kit # _____

REQUESTED DUE DATE: 12/29/10

Sampled By (PRINT) Jay Swartzentruber

Sampler Signature [signature]

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST: Cond, chloride, Alk, sulfate, TDS	ANALYSES REQUEST: Ammonia, TKN	Sample ID #
	30' 1870 A	12-17	1:30 PM				✓ ✓ ✓		-06A
	1870 B	12-17	1:30 PM					✓	↓B
	1900	12-17	4:00 PM				✓ ✓ ✓		-07A

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	122010	0930	Holly Crook	122010	0930
	Holly Crook	122010	1600	[signature]	12/20/10	1600

COMMENTS: 24 Rush

1.8

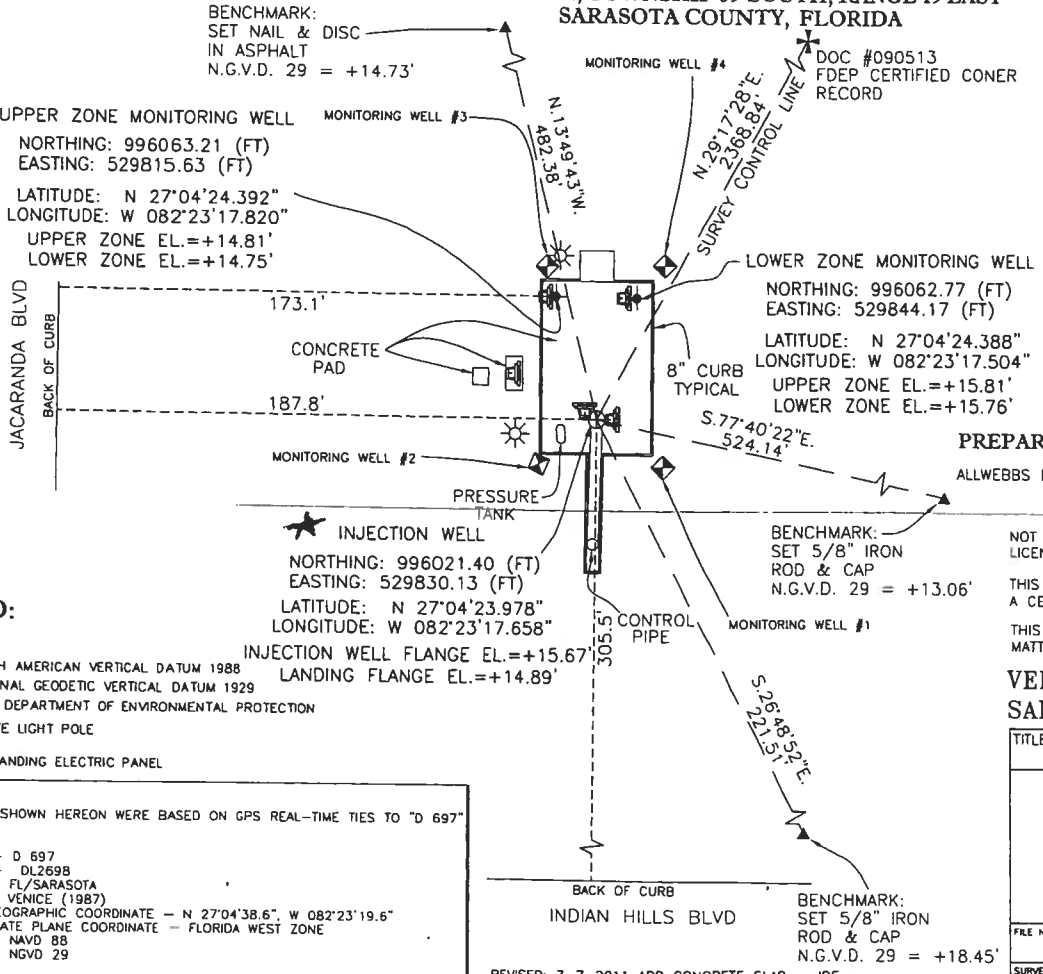
OKAY TO RUN AS IS... CLIENT INITIAL:

SAMPLES ON ICE (Yes) No

1050 Endeavor Ct., Nokomis, FL 34275-3623 • (941)488-8103 • FAX 484-6774 • 10090 Bavaria Rd., Fort Myers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536

SPECIFIC PURPOSE SURVEY

LYING IN
SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST
SARASOTA COUNTY, FLORIDA



NOTES:

THIS PLAT PREPARED AS A SPECIFIC PURPOSE SURVEY FOR THE PURPOSE OF LOCATING THE RECENTLY CONSTRUCTED WELLS IN VENICE GARDENS WTF RO DEEP INJECTION WELL.

BEARINGS AND COORDINATES SHOWN HEREON ARE STATE PLANE FOR THE FLORIDA WEST ZONE NAD 83/2007 ADJUSTMENT AND ARE BASED ON GPS REAL-TIME TIES TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CERTIFIED CORNER RECORD HAVING DOCUMENT NUMBER 090513 FOR THE NORTHEAST CORNER OF SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST.

ABOVEGROUND & UNDERGROUND IMPROVEMENTS, UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED UNLESS OTHERWISE NOTED.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) AND REFERENCED TO CONTROL POINT DESIGNATION "D 697".

DATE OF LAST FIELD WORK: 7-06-2011.

BY: _____
DENIS J. O'CONNELL, JR
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 5430

DATE SIGNED: 7/8/11

PREPARED FOR:

ALLWEBBS ENTERPRISES, INC.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THIS SPECIFIC PURPOSE SURVEY IS ONLY FOR THE LANDS AS DESCRIBED. IT IS NOT A CERTIFICATE OF TITLE, ZONING, EASEMENTS OR FREEDOM OF ENCUMBRANCES.

THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE AND ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.

LEGEND:

FT = FEET
EL. = ELEVATION
N.A.V.D. = NORTH AMERICAN VERTICAL DATUM 1988
N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM 1929
FDEP = FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
☼ = CONCRETE LIGHT POLE
= FREE-STANDING ELECTRIC PANEL

THE ELEVATIONS SHOWN HEREON WERE BASED ON GPS REAL-TIME TIES TO "D 697"

DESIGNATION - D 697
PID - DL2698
STATE/COUNTY - FL/SARASOTA
USGS QUAD - VENICE (1987)
NAD 83/2007 GEOGRAPHIC COORDINATE - N 27°04'38.6", W 082°23'19.6"
NAD 83/2007 STATE PLANE COORDINATE - FLORIDA WEST ZONE
ELEVATION 13.90' NAVD 88
ELEVATION 15.02' NGVD 29

REVISED: 7-7-2011 ADD CONCRETE SLAB - JDF
REVISED: 7-1-2010 ADD MONITORING WELLS - DJO

VENICE GARDENS WTF RO DEEP INJECTION WELL
SARASOTA COUNTY

TITLE: SPECIFIC PURPOSE SURVEY

METRON
SURVEYING & MAPPING, LLC
LAND SURVEYORS-PLANNERS
LB# 7074

10970 S. CLEVELAND AVENUE,
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457

www.metronfl.com

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO:	SHEET
11728SR.DWG	495/60	11728	1 OF 1

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	(S-T-R)
5-04-2010	DJO	1"= 50'	TLM	22-39-19

STATE OF FLORIDA WELL COMPLETION REPORT

☑ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

1. *Permit Number 804818 *CUP/WUP Number N/A *DID Number _____ 62-524 Delineation No. _____
2. *Number of permitted wells constructed, repaired, or abandoned 4 *Number of permitted wells not constructed, repaired, or abandoned _____
3. *Owner's Name Sarasota County Mgmt 4. *Completion Date 6/21/10 5. Florida Unique ID V10-151
6. 9450 Indian Hills Blvd Venice
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Sarasota *Section 22 Land Grant _____ *Township 39 *Range 19
8. Latitude _____ Longitude _____
9. Data Obtained From: ____GPS ____Map ____Survey Datum: ____NAD 27 ✓ NAD 83 ____WGS 84

10. *Type of Work: ✓ Construction ____Repair ____Modification ____Abandonment
11. *Specify Intended Use(s) of Well(s):
____Domestic
____Bottled Water Supply
____Public Water Supply (Limited Use/DOH)
____Public Water Supply (Community or Non-Community/DEP)
____Class I Injection
____Landscape Irrigation
____Recreation Area Irrigation
____Agricultural Irrigation
____Livestock
____Nursery Irrigation
____Commercial/Industrial
____Golf Course Irrigation
____Site Investigation
✓ Monitoring pad
____Test
____Earth-Coupled Geothermal
____HVAC Supply
____HVAC Return
Class V Injection: ____Recharge ____Commercial/Industrial Disposal ____Aquifer Storage and Recovery ____Drainage
Remediation: ____Recovery ____Air Sparge ____Other (Describe) _____
____Other (Describe) _____

12. *Drill Method: ✓ Auger ____Cable Tool ____Rotary ____Combination (Two or More Methods) ____Jetted ____Sonic
____Horizontal Drilling ____Hydraulic Point (Direct Push) ____Other _____
13. *Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM
14. *Measuring Point (Describe) _____ Which is ____ft. ____Above ____Below Land Surface *Flowing: ____Yes ____No
15. *Casing Material: ____Black Steel ____Galvanized ✓ PVC ____Stainless Steel ____Not Cased ____Other _____
16. *Total Well Depth 15 ft. Cased Depth 6 ft. *Open Hole: From ____ To ____ ft. *Screen: From 6 To 15 ft. Slot Size _____

17. *Abandonment: ____Other (Explain) _____
From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

18. *Surface Casing Diameter and Depth:
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

19. *Primary Casing Diameter and Depth:
Dia 2 in. From 0 ft. To 4 ft. No. of Bags less than 1 Seal Material (Check One): ✓ Neat Cement ____Bentonite ____Other ____
Dia ____in. From 4 ft. To 6 ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ✓ Bentonite ____Other Sand
Dia ____in. From 6 ft. To 15 ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ✓ Other Sand
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

20. *Liner Casing Diameter and Depth:
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

21. *Telescope Casing Diameter and Depth:
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____
Dia ____in. From ____ft. To ____ft. No. of Bags ____ Seal Material (Check One): ____Neat Cement ____Bentonite ____Other ____

22. Pump Type (If Known):
____Centrifugal ____Jet ____Submersible ____Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ft. Intake Depth _____ft.

23. Chemical Analysis (When Required):
Iron _____ppm Sulfate _____ppm Chloride _____ppm
____Laboratory Test ____Field Test Kit

24. Water Well Contractor:
*Contractor Name David W. Webb *License Number 2040 E-mail Address davidwebb@allwebbs.com
*Contractor's Signature _____ *Driller's Name (Print or Type) Dana Webb
(I certify that the information provided in this report is accurate and true.)

FORM LEG-R.005.02 (6/10)

Rule 40D-3.411 (1) (a), F.A.C

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From (ft.)	To (ft.)	Color	Grain Size (F, M, C)	Material
0	15	Tan light	F	quartz organics shell

Comments:

***Detailed Site Map of Well Location**

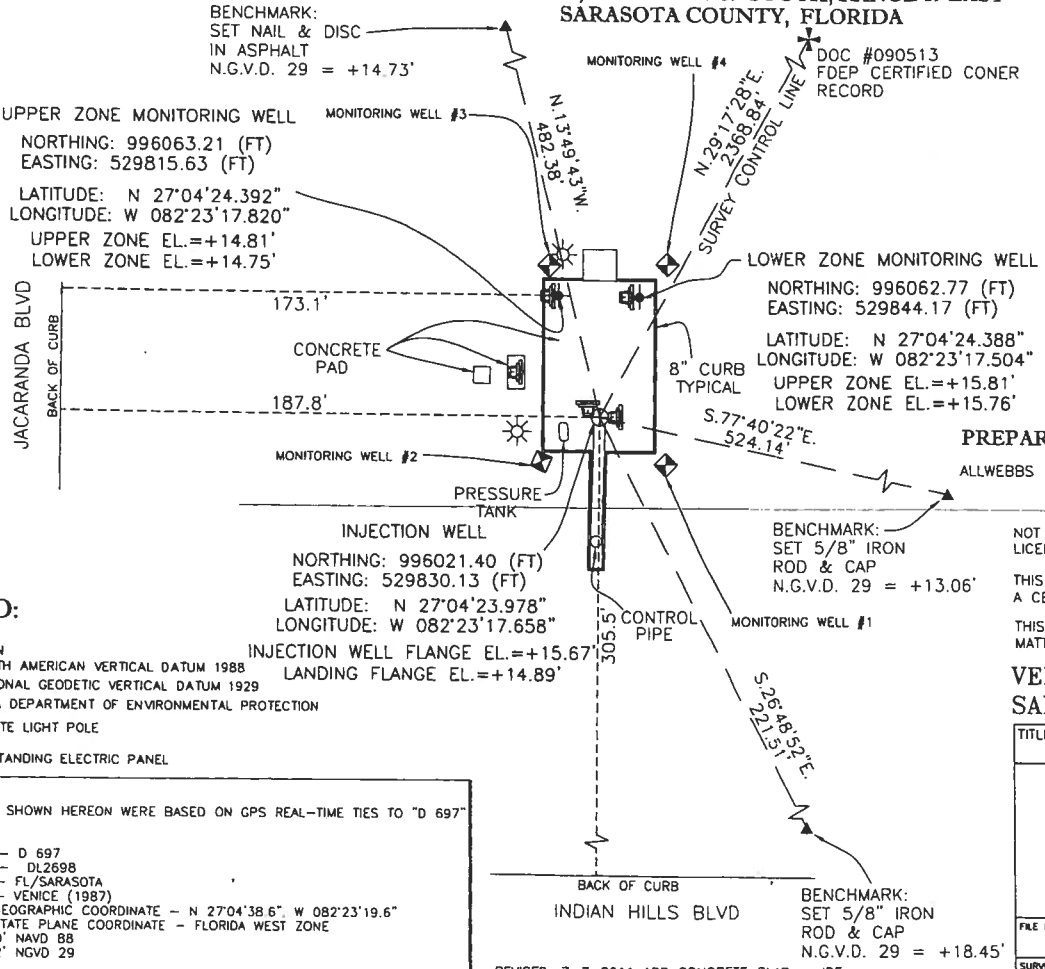
N

see attached survey

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

SPECIFIC PURPOSE SURVEY

LYING IN
SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST
SARASOTA COUNTY, FLORIDA



LEGEND:

FT = FEET
EL. = ELEVATION
N.A.V.D. = NORTH AMERICAN VERTICAL DATUM 1988
N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM 1929
FDEP = FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
☼ = CONCRETE LIGHT POLE
= FREE-STANDING ELECTRIC PANEL

THE ELEVATIONS SHOWN HEREON WERE BASED ON GPS REAL-TIME TIES TO "D 697"

DESIGNATION - D 697
PID - DL2698
STATE/COUNTY - FL/SARASOTA
USGS QUAD - VENICE (1987)
NAD 83/2007 GEOGRAPHIC COORDINATE - N 27°04'38.6", W 082°23'19.6"
NAD 83/2007 STATE PLANE COORDINATE - FLORIDA WEST ZONE
ELEVATION 13.90' NAVD 88
ELEVATION 15.02' NGVD 29

REVISED: 7-7-2011 ADD CONCRETE SLAB - JDF
REVISED: 7-1-2010 ADD MONITORING WELLS - DJO

NOTES:

THIS PLAT PREPARED AS A SPECIFIC PURPOSE SURVEY FOR THE PURPOSE OF LOCATING THE RECENTLY CONSTRUCTED WELLS IN VENICE GARDENS WTF RO DEEP INJECTION WELL.

BEARINGS AND COORDINATES SHOWN HEREON ARE STATE PLANE FOR THE FLORIDA WEST ZONE NAD 83/2007 ADJUSTMENT AND ARE BASED ON GPS REAL-TIME TIES TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CERTIFIED CORNER RECORD HAVING DOCUMENT NUMBER 090513 FOR THE NORTHEAST CORNER OF SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST.

ABOVEGROUND & UNDERGROUND IMPROVEMENTS, UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED UNLESS OTHERWISE NOTED.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) AND REFERENCED TO CONTROL POINT DESIGNATION "D 697".

DATE OF LAST FIELD WORK: 7-06-2011.

BY: _____
DENIS J. O'CONNELL, JR.
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 5430

DATE SIGNED: 7/8/11

PREPARED FOR:

ALLWEBBS ENTERPRISES, INC.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THIS SPECIFIC PURPOSE SURVEY IS ONLY FOR THE LANDS AS DESCRIBED. IT IS NOT A CERTIFICATE OF TITLE, ZONING, EASEMENTS OR FREEDOM OF ENCUMBRANCES.

THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE AND ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.

VENICE GARDENS WTF RO DEEP INJECTION WELL
SARASOTA COUNTY

TITLE: SPECIFIC PURPOSE SURVEY

METRON
SURVEYING & MAPPING, LLC
LAND SURVEYORS-PLANNERS
LB# 7074

10970 S. CLEVELAND AVENUE,
SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457

www.metronfl.com

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO.:	SHEET:
11728SR.DWG	495/60	11728	1 OF 1

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	(S-T-R)
5-04-2010	DJO	1"= 50'	TLM	22-39-19

Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road,
Tallahassee, Florida 32399-2400

DEP Form No:	62-528.900(4)
Form Title:	Certification of Class V Well construction Completion
Effective Date:	
DEP Application No.:	(Filled in by DEP)

CERTIFICATION OF CLASS V WELL CONSTRUCTION COMPLETION

INSTRUCTIONS: Submit this certification to the Department along with a signed copy of the Well Completion Report from the appropriate Water Managemant District.

DEP Construction Permit No. 013659 , issued on 08/13/08 (Date) . County Sarasota

Owner's Name Sarasota County

Owner's Address 1001 Sarasota Center Blvd.

City Sarasota State FL Zip 34240-0000

Well Contractor's Name David Webb Senior

Title President State License No. 2040

Well Contractor's Address 309 Commerce Way

City Jupiter State FL Zip 33458

Well Location 27 4 22.67 North 82 23 17.81 West

Deviations from the application and plans approved by the Department:

The original permit said 1,500 ft casing, 1,900 ft open hole.

Final completion was 1,300 ft casing, 1,850 ft open hole

Actual Dimensions:

Diameter 24 inches

Well depth 1850 feet

Casing depth 1300 feet

This is to certify that, with the exception of the deviations noted above, the construction of this well has been completed in accordance with the plans authorized by Construction Permit No. 0136598 , dated 08/13/08 .

Date: 9/1/11

(Contractor's Signature)

STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

☑ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River

CHECK BOX FOR APPROPRIATE DISTRICT ADDRESS ON BACK OF PERMIT FORM

THIS FORM MUST BE FILLED OUT COMPLETELY.

The water well contractor is responsible for completing this form and forwarding the permit to the appropriate delegated county where applicable.

Permit No. 804806
Florida Unique I.D.
Permit Stipulations Required (See attached)
54, 39, 25
62-524 Quad # Q2520 Delineation #
CUP/WUP Application No.

ABOVE THIS LINE FOR OFFICIAL USE ONLY

Fold at this line in order that address is visible through envelope window

1. SARASOTA COUNTY — OFFICE OF MNGMT & BUDGET — SARASOTA FL — 34230-0008
Owner, Legal Name of Entity if Corporation — Address — City — Zip — Telephone Number

2. [redacted] 1350 Jacaranda Blvd., Venice, FL
Well Location _ Address, Road Name or number, City

Parcel # (Pin) 0437-08-0046

3. DAVID W WEBB — 2040 — (561) 746-2079
Well Drilling Contractor — License No. — Telephone No.

309 COMMERCE WAY
Address

JUPITER — FL — 33458-5527
City — State — Zip

4. ____ 1/4 of ____ 1/4 of Section 22 (Indicate Well on Chart)
(smallest) (biggest)

5. Township 39 Range 19

6. SARASOTA
County — Subdivision Name — Lot — Block — Unit

NW NE SW SE

7. Number of proposed wells 1 Check the use of well: (See back of permit for additional choices) ____ Domestic Monitor (type) ____
____ Irrigation (Type) (See Back) Public Water Supply (type) ____ (See Back) List Other INJECTION WELL
Distance from septic system ____ ft. Description of facility Venice Gardens WTF Estimated start of construction date 6/22/2010

8. Application for: ✓ New Construction ____ Repair/Modify ____ Abandonment ____ (Reason for Abandonment)

Date Stamp

9. Estimated: Well Depth 1900 Casing Depth 1500 Screen Interval from ____ to ____
Casing Material: XXXXXX / XXX / XXX FiberglassReinforcedCasingFrp Casing Diameter 16.6 (smallest) Seal Material ____

10. If applicable: Proposed Grouting Interval
From 0 to 1500 Seal Material Cement
From ____ to ____ Seal Material ____
From ____ to ____ Seal Material ____

Received: Tuesday, May 11, 2010

11. Telescope Casing ____ or Liner ____ (check one) Diameter ____
Blk-Steel / Galvanized / PVC Other (specify:) ____

12. Method of Construction: ____ Rotary ____ Cable Tool ✓ Combination
____ Auger ____ Other (specify:) ____

13. Indicate total No. of wells on site 0. List number of unused wells on site 0.

14. Is this well or any other well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ✓ No ____ Yes
(IF YES, COMPLETE THE FOLLOWING) CUP/WUP No. ____
District well I.D. No. ____
Latitude 27° 04' 23.97" Longitude 82° 23' 17.68"
Data obtained from GPS ____ or map ____ or survey ____ (*map datum NAD 27__ NAD 83__*)

Draw a map of well location and indicate well site with an "X" identify known roads and landmarks; provide distances betwen well and landmarks.

North
West
East
South

15. I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided on this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after drilling or the permit expiration, whichever occurs first.

Digitally Signed — 2040
Signature of Contractor — License No.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well; or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to personnel of the WMD or a representative access to the well site.

Digitally Signed
Owner's or Agent's Signature — Date

DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE ONLY

Approval Granted By: ERIC ESHOM STATUS: ISSUED Issue Date: 5/24/2010 Hydrologist Approval ____ Initials
Owner Number: ____ Fee Received: $ 75.00 Receipt No.: IN10739004 Check No.: ____

THIS PERMIT NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL DRILLING OPERATIONS. *This permit is valid for 90 days from the date of issue.*

FORM 41.10 - 410 (1) REV. 12/04

WHITE: ORIGINAL FILE
YELLOW: DRILLING CONTRACTOR
PINK: OWNER

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION # 25 - CLASS I TEST INJECTION WELL

A. This well is to be constructed as a test injection well. It is not authorized as an operational injection well at this time. Conversion of the test-injection well to an operational injection well will require Florida Department of Environmental Protection (FDEP) approval.

B. All construction and testing shall be in accordance with the "Reference Contract Documents". Any subsequent revisions must be reviewed and approved by the Southwest Florida Water Management District prior to implementation.

C. Twenty-four hour notification shall be given to the Southwest Florida Water Management District prior to grouting the final string of casing or conducting any geophysical logging. Contact the Well Construction Manager or Geologist at (352) 796-7211 or 1-800-423-1476.

D. The selected depth for setting the final string of casing shall be reviewed by the Technical Advisory Committee on deep well injection.

E. In the event the well is abandoned a District abandonment permit shall be obtained prior to commencing with abandonment operations.

Permit No. 804806

COPY TO OWNER TO BE PROVIDED BY CONTRACTOR

(11/03)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION NUMBER 39 - WELL AND DRILLHOLE ABANDONMENT

It will be the **water well contractor's** responsibility to have any incomplete well or drillhole attempted under this permit properly abandoned.

Any incomplete or abandoned well or drillhole as described in 40D-3, Florida Administrative Code (F.A.C.), shall be abandoned as follows:

A. The well shall be examined from land surface to the original depth of construction for debris or obstructions (any debris or obstruction shall be removed prior to abandonment).

B. The well shall be plugged from bottom to top by an approved method of grouting with either Portland neat cement grout or an approved Bentonite product as specified in 40D-3.517 2. (b), F.A.C.

It will be the **owner's** responsibility to have any well completed under this permit, or any existing well on this property, which meets the definition of an abandoned well as defined in Chapter 40D-3.021(1), F.A.C., properly abandoned in accordance with Chapter 40D-3.531, F.A.C.

It will be the **owner's** responsibility to have any inactive well, which does not meet the above criteria and is no threat to the water resource properly capped in an air and watertight manner with a threaded, welded or bolted cover or valve. If the pump and well seal are water tight, the pump may be left in place. If practical, a protective cover two (2) feet in height shall be placed around the well casing.

A. Wells with a diameter of six (6) inches or more without pumping equipment shall have the well casing extended a minimum of two (2) feet above land surface.

B. Wells with a diameter of less than six (6) inches without pumping equipment shall be securely set in a concrete slab and have either the well casing extended a minimum height of two (2) feet above land surface or a protective cover centered over the well casing. The concrete slab shall be a minimum of four (4) inches in thickness by two (2) feet by two (2) feet square. The protective cover shall be set in the concrete slab and extend a minimum of two (2) feet above land surface.

In flood prone areas all wells shall extend a minimum of one (1) foot above the 100 year flood elevation, if practical, in accordance with Chapter 40D-3.521(4), F.A.C.

Any plugging operations shall be permitted separately from this permit by the Southwest Florida Water Management District and be witnessed by a designated District representative. Arrangement for a District representative shall be made with the local District Field Services office a minimum of 24 hours in advance of these operations. A District representative will be available for assignment during normal working hours (8:00 AM - 4:30 PM), Monday through Friday. Travel time must be taken into consideration. Exemptions may be made for extenuating circumstances. For scheduling, please contact the Field Service Supervisor in the Sarasota office at (941) 377-3722.

Permit Number: 804806

(11/03)

SARASOTA COUNTY HEALTH DEPARTMENT

STIPULATION # 54 - REQUIRED CHEMICAL ANALYSIS

In accordance with Sarasota County Ordinance, Chapter 54, Article XIII, Section 54-385, H, 1-3:

1. The Well Contractor/Driller shall obtain a Chemical Analysis under the conditions described below:

   - Following the completion of a new well, or;
   - Following a constructed well requiring downward casing extension, or;
   - Following the deepening of an existing well.

   In the event that any of the above mentioned conditions are met, the Driller shall obtain a raw water sample representative of the well water quality and submit it to a laboratory approved by the Department of Health (DOH). (Please contact the DOH for a current list of approved laboratories).

2. The Contractor/Driller shall have the sample analyzed for:

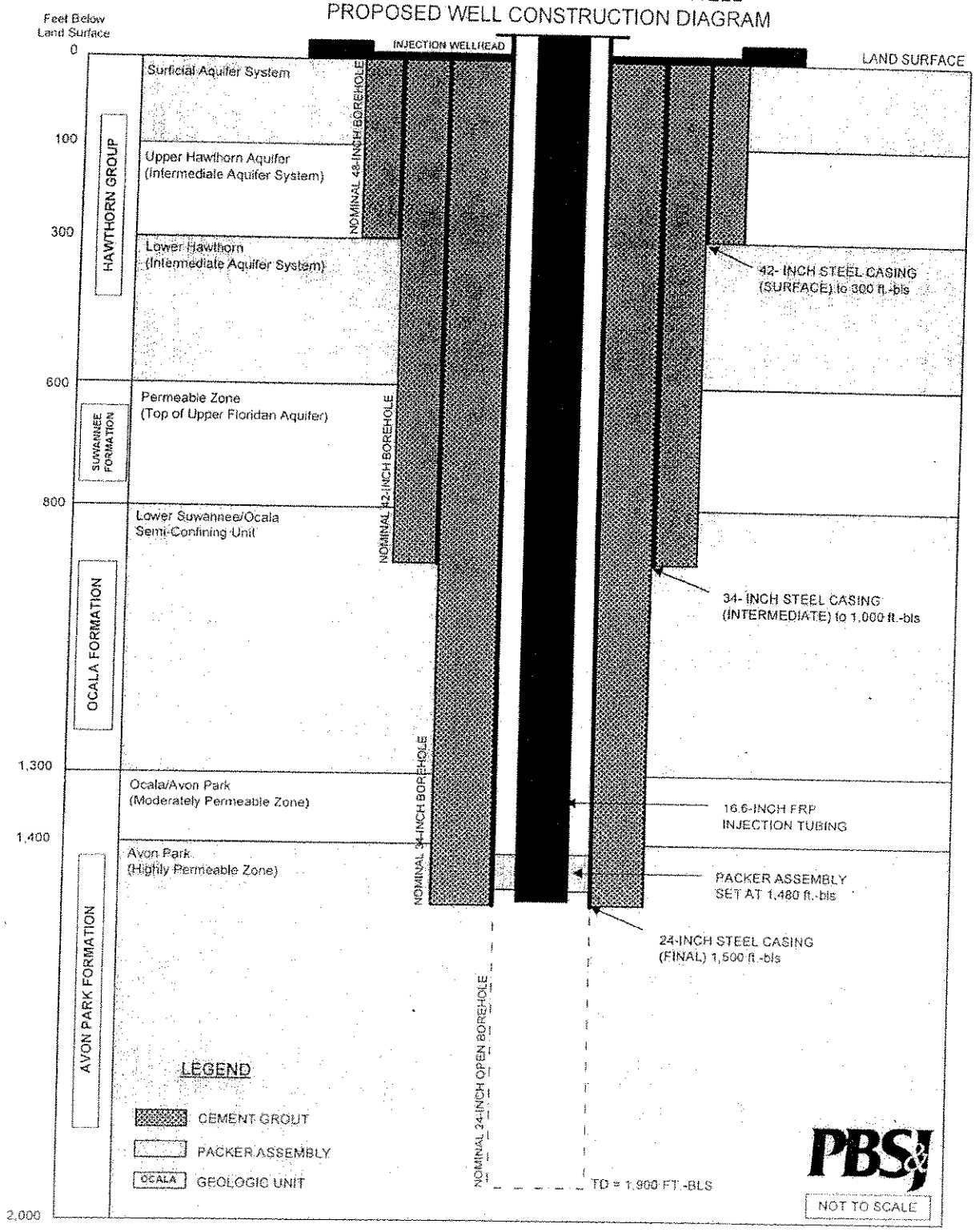
   - Total dissolved solids (TDS)
   - Sulfates
   - Chlorides
   - Iron
   - Total hardness
   - Color
   - PH

3. The results of the Chemical Analysis shall be submitted together with the completion report. A completion report submitted without the required water sample results from a DOH approved laboratory shall be deemed incomplete and will not be accepted.

SWFWMD Permit No.: 804806

Reference number: May 24, 2010

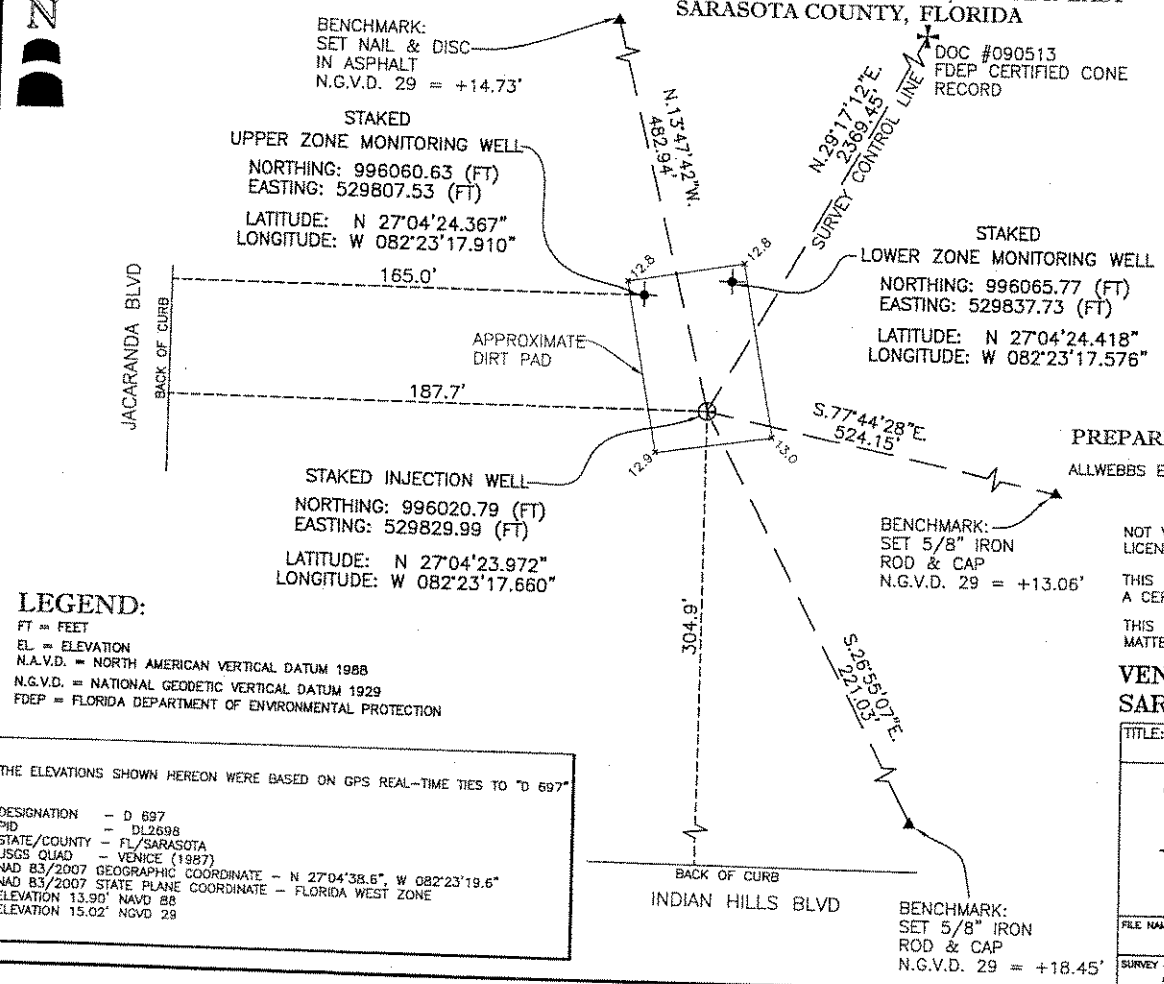
VENICE GARDENS RO WTP
REPLACEMENT DEEP INJECTION WELL
PROPOSED WELL CONSTRUCTION DIAGRAM



DRAWING NO. 2

SPECIFIC PURPOSE SURVEY

LYING IN
SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST
SARASOTA COUNTY, FLORIDA



LEGEND:

FT = FEET
EL = ELEVATION
N.A.V.D. = NORTH AMERICAN VERTICAL DATUM 1988
N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM 1929
FDEP = FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

THE ELEVATIONS SHOWN HEREON WERE BASED ON GPS REAL-TIME TIES TO "D 697"

DESIGNATION - D 697
PID - DL2698
STATE/COUNTY - FL/SARASOTA
USGS QUAD - VENICE (1987)
NAD 83/2007 GEOGRAPHIC COORDINATE - N 27°04'38.6", W 082°23'19.6"
NAD 83/2007 STATE PLANE COORDINATE - FLORIDA WEST ZONE
ELEVATION 13.90' NAVD 88
ELEVATION 15.02' NGVD 29

NOTES:

THIS PLAT PREPARED AS A SPECIFIC PURPOSE SURVEY FOR THE PURPOSE OF LOCATING THE STAKED WELLS IN VENICE GARDENS WTF RO DEEP INJECTION WELL.

BEARINGS AND COORDINATES SHOWN HEREON ARE STATE PLANE FOR THE FLORIDA WEST ZONE NAD 83/2007 ADJUSTMENT AND ARE BASED ON GPS REAL-TIME TIES TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CERTIFIED CORNER RECORD HAVING DOCUMENT NUMBER 090513 FOR THE NORTHEAST CORNER OF SECTION 22, TOWNSHIP 39 SOUTH, RANGE 19 EAST.

ABOVEGROUND & UNDERGROUND IMPROVEMENTS, UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED UNLESS OTHERWISE NOTED.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) AND REFERENCED TO CONTROL POINT DESIGNATION "D 697".

DATE OF LAST FIELD WORK: 5-04-2010.

BY: _____
DENIS J. O'CONNELL, JR.
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. LS# 5430
DATE SIGNED: 5/5/10

PREPARED FOR:
ALLWEBBS ENTERPRISES, INC.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

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THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE AND ALL MATTERS OF TITLE SHOULD BE REFERRED TO AN ATTORNEY AT LAW.

VENICE GARDENS WTF RO DEEP INJECTION WELL
SARASOTA COUNTY

TITLE: SPECIFIC PURPOSE SURVEY

METRON
SURVEYING & MAPPING, LLC
LAND SURVEYORS-PLANNERS
LB# 7071

10970 S. CLEVELAND AVENUE, SUITE #605
FORT MYERS, FLORIDA 33907
PHONE: (239) 275-8575
FAX: (239) 275-8457
www.metronfl.com

FILE NAME:	FIELD BOOK/PAGE:	PROJECT NO.:	SHEET:
11728SR.DWG	495/60	11728	1 OF 1

SURVEY DATE:	DRAWN BY:	SCALE:	CHECKED BY:	(S-T-R)
5-04-2010	DJO	1"= 50'	TLM	22-39-19