

# **APPENDIX A**

## LITHOLOGIC LOG

## LITHOLOGIC LOG

<b>LAKE WORTH UTILITIES LAKE WORTH FLORIDIAN AQUIFER TEST PRODUCTION WELL F-1</b>	
<b>Depth in feet below land surface</b>	<b>Description</b>
0-20	SAND, 100%, very pale orange (10 YR 8/2), dark yellowish orange (10 YR 6/6), light brown (5 YR 5/6), unconsolidated, quartz grains, angular to well rounded, fine to medium size grains.
20-25	SAND, 80%, Same as above. SHELL FRAGMENTS 20%, white (N9) to very pale orange (10 YR 8/2), unconsolidated.
25-38	SAND 100%, pale yellowish orange (10 YR 8/6), unconsolidated, same as above, trace shell fragments as above.
38-59	SANDSTONE 100%, very light olive gray (5 Y 7/1), hard to medium, calcareous cement, sparry calcite, sand grains, quartz, fine to medium grained, angular to well rounded, commonly cemented shell fragments, pale orange (10 YR 7/2).
59-74	SAND 50%, light olive gray (5Y 7/1), unconsolidated to poorly lithified, fine to very fine quartz sand, angular to subrounded. SHELL 30%, white (N9) to very pale orange (10YR 8/2), unconsolidated to poorly lithified in limestone. LIMESTONE 20%, light olive gray (5Y 7/1), medium hardness, sandy with cemented quartz grains and shell, highly interbedded sand, shell, and limestone.
74-87	LIMESTONE 80%, light olive gray (5Y 7/1), medium hardness, sandy with cemented quartz grains, shell fragments. SAND AND SHELL 20%, interbedded, same as above.
87-125	SAND 60%, same as above. SHELL 30%, same as above. LIMESTONE 10%, same as above.
125-145	Sand 90%, light olive gray (5y 6/1), unconsolidated, predominantly very fine grain quartz, phosphate grains also common. SHELL 10%, decrease with size and amount with depth.
145-168	SAND 100%, medium light gray (N6), very fine grain, quartz and phosphate, unconsolidated.
168-185	SAND 50%, same as above. LIMESTONE 30%, olive gray (5Y 4/1), interbedded, medium hardness, sandy, quartz and phosphorous grains, cemented shell fragments. SHELL FRAGMENTS, 20%, loose, unconsolidated, pale orange (10YR 8/2) and yellowish gray (5Y 8/1).
185-195	SAND 90%, same as above, SHELL and LIMESTONE, 10%, same as above.
195-230	SAND 50%, same as above. LIMESTONE 50%, pale yellowish brown (10 YR 6/2) to pale yellowish orange (10 YR 6/6), medium to soft hardness, calcarenite, fossiliferous, and LIMESTONE, very light gray (N8) and medium light gray (N6).

**LITHOLOGIC LOG (continued)**

<b>LAKE WORTH UTILITIES LAKE WORTH FLORIDIAN AQUIFER TEST PRODUCTION WELL F-1</b>	
<b>Depth in feet below land surface</b>	<b>Description</b>
230-240	SAND 80%, same as above. LIMESTONE 20%, light olive gray (5Y 8/2), carbonate and quartz grains, medium sand to silt size, poorly cemented, low permeability.
240-245	LIMESTONE 100%, very pale orange (10 YR 8/2), soft granular texture, coarse sand to silt size grains, quartz, shell fragments, phosphate, inter-granular porosity, medium permeability.
245-250	SAND and SHELL 90%, pale yellowish brown (10YR 6/2), unconsolidated, shell fragments, quartz, phosphate, coarse sand to silt size. LIMESTONE, 10%, same as above.
250-260	SAND and SHELL 60%, same as above. LIMESTONE 40%, same as above.
260-280	LIMESTONE 80%, light olive gray (5Y 5/2), soft, granular texture, carbonate grains, shell fragments, quartz, phosphate, medium permeability. SAND 20%, light olive gray (5Y 5/2), unconsolidated, quartz, phosphate, carbonate grains, shell fragments, silt to medium sand size.
280-285	SAND 50%, same as above. LIMESTONE 50%, same as above.
285-300	LIMESTONE 100%, same as above.
300-305	SHELL FRAGMENTS 80%, yellowish gray (5Y 7/2, 8/1), light gray (N7), unconsolidated, medium-gravel to medium-sand size, some quartz and phosphate. LIMESTONE 20%, light olive gray (5Y 6/1), soft, granular texture, carbonate grains, quartz, phosphate, medium to low permeability.
305-310	LIMESTONE 60%, yellowish gray (5Y 8/1), medium soft hardness, granular texture, calcarenite, low porosity, low permeability. SHELL FRAGMENTS 40%, same as above.
310-335	LIMESTONE 70%, light olive gray (5 Y 6/1), medium hard, granular, calcite grains, shell fragments, quartz, phosphate, low permeability. LIMESTONE 20%, same as above. LIMESTONE 10%, pale olive (10Y 6/2), medium hardness, granular texture, calcarenite, quartz, phosphate, overall medium to low permeability.
335-370	LOST WHILE DRILLING
370-390	LIMESTONE 100%, yellowish gray to pale olive (5Y 7/2-10Y 6/2), medium hard, granular texture, calcarenite, silt to medium sand size, phosphate, low permeability.

**LITHOLOGIC LOG (continued)**

<b>LAKE WORTH UTILITIES LAKE WORTH FLORIDIAN AQUIFER TEST PRODUCTION WELL F-1</b>	
<b>Depth in feet below land surface</b>	<b>Description</b>
390-410	LIMESTONE 50% same as above. SAND 50%, light olive gray (5Y 5/2), unconsolidated, quartz, phosphate, fine sand to silt size grains, carbonate grains medium sand to fine gravel in size, medium permeability.
410-530	SAND 50%, same as above. LIMESTONE 50%, light olive gray (5Y 5/2), soft, granular texture, calcite cemented, quartz and phosphate grains, low permeability.
530-550	LIMESTONE 70%, same as above. SILTY CLAY 30%, light olive gray (5Y 5/2), clayey and very fine sand and silt size quartz and phosphate grains, low permeability.
550-570	SILTY CLAY 60%, same as above. LIMESTONE 50%, same as above.
590-610	SILTY CLAY 100%, same as above.
610-760	CLAY 100%, grayish olive (10Y 4/2), cohesive, some silt to fine sand size quartz and phosphate grains visible, low permeability.
760-790	CLAY 50%, same as above. SHELL 50%, yellowish gray (5Y 8/1), unconsolidated, fine gravel to medium sand size grains, overall low permeability.
790-800	LIMEMUD 80%, yellowish gray (5Y 7/2), cohesive, LIMESTONE 20%, yellowish gray (5Y 7/2), soft, granular, low permeability.
800-805	LIMESTONE 90%, very pale orange (10 YR 8/2) and dark yellowish brown (10 YR 4/2), loosely consolidated, clay to fine gravel size grains, calcarenite, low to med permeability. LIMEMUD 10%, cohesive, clayey, low permeability.
805-810	LIMESTONE 50%, same as above. LIMEMUD 50%, light olive gray (5Y 5/2), same as above.
810-840	LIME MUD 80%, moderate olive brown (5Y 7/2) and yellowish gray (5Y 7/2) mottled color, cohesive, some fine sand and silt size grains. LIMESTONE 20%, yellowish gray (5Y 7/2), medium hard, granular texture, low permeability.
840-850	LIMESTONE 100%, very pale orange (10 YR 8/2) and yellowish gray (5Y 7/2), medium hard, granular texture, calcarenite, medium porosity, medium permeability.
850-880	LIMESTONE 90%, same as above. LIME MUD 10%, moderate yellowish brown (10YR 5/4), cohesive, low permeability.
880-900	LIMESTONE 100%, very pale orange (10YR 8/2), soft, granular, microcrystalline to granular texture, coarse to fine sand size, calcarenite, low permeability.

**LITHOLOGIC LOG (continued)**

<b>LAKE WORTH UTILITIES LAKE WORTH FLORIDIAN AQUIFER TEST PRODUCTION WELL F-1</b>	
<b>Depth in feet below land surface</b>	<b>Description</b>
900-920	LIMESTONE 100%, yellowish gray (5Y 8/1), soft, granular texture, coarse sand to silt size, calcarenite, minor secondary porosity, low permeability.
920-960	LIMESTONE 50%, same as above. LIMESTONE 40%, yellowish gray (5Y 8/1) very light gray (N8), medium hard, fine grained granular to microcrystalline texture, secondary moldic porosity. CLAY 10%, pale yellowish brown, silt to fine sand carbonate, quartz and phosphate grains, semi-cohesive, overall low permeability.
960-975	LIMESTONE 90%, very pale orange (10YR 8/2), soft, granular texture, coarse sand to silt grains, calcarenite, low permeability. LIMESTONE 5%, yellowish gray (5Y 8/1), same as above. CLAY 5%, same as above.
975-1000	LIMESTONE 100%, very pale orange (10YR 8/2), same as above.
1000-1015	LIMESTONE 100%, yellowish gray (5Y 8/1), soft to medium hard, granular texture, very fine grained to medium sand size grains, minor porosity, low permeability.
1015-1020	SAND 50%, pale yellowish brown (10 YR, 6/2), unconsolidated, medium sand to silt size, carbonate and quartz grains. LIMESTONE 50%, very pale orange (10YR 8/2), soft, granular texture, calcarenite, overall medium permeability.
1020-1030	SAND 100%, same as above.
1035-1055	LIMESTONE 100%, very pale orange (10YR 8/2) to pale yellowish brown (10YR 6/2), medium to hard very fine granular to microcrystalline texture, low permeability.
1055-1080	LIMESTONE 100%, yellowish gray (5Y 8/1), medium hard, granular texture, fossiliferous, some primary porosity, secondary moldic porosity, medium permeability.
1080-1085	LIMESTONE 100%, yellowish gray (5Y 8/1), soft, granular texture, medium fine sand size grains, calcarenite, some fine to medium sand size vugged porosity, medium permeability.
1085-1090	SAND 90%, light olive gray (5Y 7/2), unconsolidated, coarse sand to silt size, carbonate, quartz, and phosphate grains. LIMESTONE 10%, same as above).
1090-1100	LIMESTONE 100%, grayish orange (10YR 7/4), soft, granular texture, calcarenite, very fine sand size vugged porosity, medium-low permeability.

**LITHOLOGIC LOG (continued)**

<b>LAKE WORTH UTILITIES LAKE WORTH FLORIDIAN AQUIFER TEST PRODUCTION WELL F-1</b>	
<b>Depth in feet below land surface</b>	<b>Description</b>
1100-1105	LIMESTONE 100%, yellowish gray (5Y 8/1), medium hard, granular, very fine grained, quartz, shell fragments, phosphate, low permeability.
1105-1110	LIMESTONE 70%, very pale orange (10YR 8/2), medium hard, calcarenite, medium to fine grained granular texture, silt to medium sand size vugged porosity, low permeability. LIMESTONE 30%, light olive gray (5Y 5/2), hard microcrystalline, some medium to sand size vugged porosity, low permeability.
1110-1130	LIMESTONE 100%, very pale orange (10YR 8/2), same as above.
1130-1155	LIMESTONE 50%, yellowish gray (5Y 8/1), medium hardness, granular to microcrystalline texture, moldic porosity, fine gravel to fine sand size vugged porosity, medium permeability. LIMESTONE (50%), light olive gray (5Y 5/2), hard, microcrystalline, some medium sand to silt size vugged porosity, low permeability.
1155-1165	LIMESTONE 100%, very pale orange (10YR 8/2), medium hard, granular texture, calcarenite, low permeability.
1165-1170	LIMESTONE 80%, same as above. LIMESTONE 20%, yellowish gray (5Y 7/2), medium hard, fine granular texture, medium to fine sand size vugged porosity, medium permeability.
1170-1195	LIMESTONE 90%, very pale orange, medium hard, calcarenite, granular texture, vugged porosity, medium permeability. LIMESTONE 10%, grayish orange (10 YR 7/4), soft, granular, fine vugged porosity, medium low permeability.
1195-1210	LIMESTONE 50%, very pale orange (10YR 8/2), same as above, vugs increase in size and abundance. LIMESTONE 40%, yellowish gray (5Y7/2), soft fine granular texture, sand size vugged porosity, medium to low permeability. LIMESTONE 10%, grayish orange (10YR 7/4), granular to microcrystalline, calcilutite, medium hard, sand size vugged porosity, medium permeability.
1210-1215	LIMESTONE 100%, yellowish gray (5Y 8/1), granular texture, soft, vugged porosity, medium permeability.
1215-1230	LIMESTONE 50%, same as above. LIMESTONE 50%, very pale orange 10 YR 8/2) to yellowish gray (5Y 8/1), medium hardness, very fine granular texture and size vugged porosity, medium to low permeability.
1230-1235	LIMESTONE 100%, very pale orange (10YR 8/2), same as above.

**LITHOLOGIC LOG (continued)**

<b>LAKE WORTH UTILITIES LAKE WORTH FLORIDIAN AQUIFER TEST PRODUCTION WELL F-1</b>	
<b>Depth in feet below land surface</b>	<b>Description</b>
1235-1245	LIMESTONE 90%, grayish orange (10YR 7/4), medium hard, granular texture, calcarenite, inter-granular porosity, low permeability. LIMESTONE 10%, yellowish gray (5Y 8/1), soft, very fine grain granular texture, sand size vugged porosity, low to medium permeability.
1245-1260	LIMESTONE 50%, grayish orange (10YR 7/4), same as above. LIMESTONE 50%, light olive gray (5Y 6/1), hard, fine granular texture, minor vugged porosity, low to medium permeability.
1260-1280	LIMESTONE 60%, grayish orange (10YR 7/4), medium to soft, fine granular to microcrystalline texture, some vugged porosity, low permeability. LIMESTONE 40%, very pale orange (10YR 8/2), medium hard, granular texture, medium to fine sand size vugged porosity, overall low permeability.
1280-1295	LIMESTONE 50%, very pale orange (10YR 8/2), same as above. DOLOMITE 50%, medium gray (N5), hard, microcrystalline, low permeability.
1295-1320	LIMESTONE 100%, very pale orange (10YR 8/2), same as above, larger vugged porosity, medium permeability.
1320-1330	DOLOMITE 60%, pale yellowish brown (10YR 6/2), hard, microcrystalline, minor fine vugged porosity, low permeability. LIMESTONE 40%, same as above.
1330-1340	LIMESTONE 70%, same as above. DOLOMITE, 30%, same as above.
1340-1345	LIMEMUD 70%, dark to pale yellowish brown (10YR 4-6/2), unconsolidated, cohesive, some quartz and phosphate rains, low permeability. LIMESTONE 30%, light olive gray (5Y 6/1), soft, granular, sand size vugged porosity, medium permeability.
1345-1365	LIMESTONE 60%, very pale orange (10YR 8/2), medium to hard, granular, some secondary solution porosity. LIMESTONE 40%, light olive gray (5Y 6/1), granular, very minor porosity, overall low permeability.
1365-1370	LIMESTONE 100%, medium gray (N5), fossiliferous, hard, granular to microcrystalline, low permeability.
1370-1385	LIMESTONE 50%, same as above. DOLOMITE 30%, pale yellowish brown (10YR 6/2), medium hard, granular, minor porosity, low permeability. LIMESTONE 20%, yellowish gray (5Y 8/1), medium to hard, granular, minor pore space, low permeability.

**LITHOLOGIC LOG (continued)**

<b>LAKE WORTH UTILITIES LAKE WORTH FLORIDIAN AQUIFER TEST PRODUCTION WELL F-1</b>	
<b>Depth in feet below land surface</b>	<b>Description</b>
1385-1390	LIMESTONE 100%, medium gray (N5), fossiliferous, same as above.
1390-1415	LIMESTONE 50%, very pale orange (10YR 8/2), medium to hard, granular, calcarenite, vugged porosity, good permeability. LIMESTONE 50%, yellowish gray (5Y 8/1), hard microcrystalline, low permeability.
1445-1420	LIMESTONE 100%, yellowish gray (5Y 8/2), medium hard, granular texture, sparry calcite, fine gravel to coarse sand size vugged porosity, high permeability.
1420-1430	LIMESTONE 50%, very light gray to yellowish gray (N8-5Y 8/1), medium to hard, granular to microcrystalline texture, small vugged porosity, calcarenite, low permeability. LIMESTONE 40%, grayish orange (10YR 7/4), hard, sparry calcite, low permeability. LIMESTONE 10%, same as above.
1430-1440	LIMESTONE 100%, very light gray to yellowish gray (N8-5Y 8/1), same as above.
1440-1445	LIMESTONE 100%, pale yellowish brown (10YR 6/2, medium hard, microcrystalline texture, sparry calcite, vugged porosity, low permeability.
1445-1480	LIMESTONE 90%, yellowish gray (5Y 8/1), medium to hard, very fine grained to microcrystalline texture, minor very fine vugged porosity, low permeability. LIMESTONE 10%, very pale orange (10YR 8/2), soft, granular, calcarenite, medium permeability.
1480-1515	LIMESTONE 100%, very pale orange (10YR 8/2), medium hard, granular, calcarenite, medium permeability.
1515-1520	LIMESTONE 100%, very pale orange (10YR 8/2), hard, microcrystalline, dolomite, low permeability.



# **APPENDIX B**

SFWMD WELL COMPLETION REPORT

WELL COMPLETION REPORT

FORM 0124  
Rev. 11/90

WELL PERMIT NO. \_\_\_\_\_

SFWM WATER USE PERMIT NO. SE 082404A

CITY OF LAKE WORTH

7 N. DIXIE HWY

LAKE WORTH, FL

33460

Contractor's Signature [Signature]

License No. 2040

Completion Date \_\_\_\_\_

City 1211

State \_\_\_\_\_

Total Depth 1520

Well # -F1

TYPE OF WORK: Construct  Repair ( ) Abandon ( )

WELL USE: Domestic Well ( ) Public  Monitor ( ) Test ( )

Irrigation ( ) Fire Well ( ) Other \_\_\_\_\_

METHOD: Rotary with MUD  or Air  Cable Tool ( ) Jet ( )

Casing Driven ( ) Other \_\_\_\_\_

STATIC WATER LEVEL \_\_\_\_\_ Ft. below top of casing

PUMPING WATER LEVEL \_\_\_\_\_ Ft. after \_\_\_\_\_ Hrs. at \_\_\_\_\_ GPM

PUMP SIZE \_\_\_\_\_ H.P. CAPACITY \_\_\_\_\_ GPM

PUMP TYPE \_\_\_\_\_ INTAKE DEPTH \_\_\_\_\_  
From top of ground

LOCATION

Located Near COLLEGE ST.

LAKE WORTH, FL 33460

County PALM BEACH


28 44 43  
Section Township Range

Latitude-Longitude

Cuttings sent to District? ( ) Yes

No

LOCATE IN SECTION

Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout Thick- ness & Depth	Casing & Screen Diameter & Depth	Depth (ft)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
		From	To	
3	30"	200'		SEE ATTACHED
3	18"	730'		" "
.5	16"	1400'		" "
2.5	12"	1000'		" "
Number of bags				
2883				

Casing: Black Steel ( ) Galv. ( ) PVC  Fiberglass ( )

Screen: Type \_\_\_\_\_ Slot size \_\_\_\_\_

Screened from \_\_\_\_\_ (ft.) to \_\_\_\_\_ (ft.)

Type of grout with % additives 6% BENTONITE

Water: Clear ( ) Colored ( ) Sulphur ( ) Salty ( ) Iron ( )

Conductivity \_\_\_\_\_ Chlorides \_\_\_\_\_ mg/l

# **APPENDIX C**

LABORATORY ANALYSES  
(Priority Pollutant Scan)

## CERTIFICATE OF ANALYSIS

All Webb's Enterprises, Inc.  
309 Commerce Way  
Jupiter, FL 33458

September 19, 2005  
Report: 2005/08312  
Sample No: 2005/08312- 1

Attention: Tami Wells

Project: City Of Lake Worth  
301 South College Street Lake Worth, FL

SAMPLE ID: Well F-1

Collected by: Scott R. Edick  
Jim Anderson

Collected on: 08/11/05  
Received on: 08/12/05

PARAMETER	RESULT	MDL	PQL	UNITS	METHOD	DATE	ANALYST
Aluminum	U	0.10	0.40	mg/L	200.7	08/12/05	JMJ
Arsenic	U	0.0090	0.0360	mg/L	200.7	08/12/05	JMJ
Barium	0.015 I	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Beryllium	U	0.0030	0.0120	mg/L	200.7	08/12/05	JMJ
Cadmium	U	0.0040	0.0160	mg/L	200.7	08/12/05	JMJ
Chromium	U	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Copper	U	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Iron	U	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Manganese	U	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Nickel	U	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Silver	U	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Sodium	1100	1.0	4.0	mg/L	200.7	08/12/05	JMJ
Zinc	U	0.010	0.040	mg/L	200.7	08/12/05	JMJ
Antimony	U	0.0010	0.0040	mg/L	200.8	08/17/05	JMJ
Lead	U	0.00020	0.00080	mg/L	200.8	08/17/05	JMJ
Selenium	U	0.0010	0.0040	mg/L	200.8	08/17/05	JMJ
Thallium	U	0.00030	0.00120	mg/L	200.8	08/17/05	JMJ

U=Analyte not detected  
MDL=Minimum Detection Limit  
PQL=Practical Quantitation Limit

Laboratory Certification No. E86188  
I=Reported value is between MDL and PQL

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SAMPLE ID: Well F-1

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Jim Anderson

Collected on: 08/11/05  
Received on: 08/12/05

PARAMETER	RESULT	MDL	PQL	UNITS	METHOD	DATE	ANALYST
Mercury	U	0.000025	0.000100	mg/L	245.1	08/15/05	JMJ
Dibromochloropropane	U	0.020	0.080	µg/L	504.1	08/15/05	RGC
1,2-Dibromoethane (EDB)	U	0.020	0.080	µg/L	504.1	08/15/05	RGC
Benzo(a)pyrene	U	0.20	0.80	µg/L	525.2	09/03/05	BCR
Di(2-ethylhexyl)adipate	U	1.0	4.0	µg/L	525.2	09/03/05	BCR
Di(2-ethylhexyl)phthalate	U	1.0	4.0	µg/L	525.2	09/03/05	BCR
Carbofuran	U	1.0	4.0	µg/L	531.1	09/02/05	NJ
Oxamyl (Vydate)	U	1.0	4.0	µg/L	531.1	09/02/05	NJ
Glyphosate	U	40	160	µg/L	547	08/17/05	E86515
Endothall	U	50	200	µg/L	548.1	09/01/05	E86515
Diquat	U	1.44	5.76	µg/L	549.2	08/24/05	E86515
Asbestos, in Water	U	0.20	0.80	MFL	EPA 100.2	08/13/05	E86772
Chloride	1800	200	800	mg/L	SM4500CL-B	08/16/05	KYT
Color	U	5		CU	110.2	08/12/05	JGT
Corrosivity, L.S.I.	0.041			L. I.	SM2330B	08/23/05	JGT
Cyanide, Total	U	0.0010	0.0040	mg/L	335.3	08/22/05	KYT
Fluoride	1.2	0.10	0.40	mg/L	SM4500F-C	08/19/05	KYT
Gross Alpha	13±9	1.0	4.0	pCi/L	900.0	08/16/05	E84088

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SAMPLE ID: Well F-1

Collected by: Scott R. Edick  
 Jim Anderson

Collected on: 08/11/05  
 Received on: 08/12/05

PARAMETER	RESULT	MDL	PQL	UNITS	METHOD	DATE	ANALYST
Surfactants, MW = 340	U	0.010	0.040	mg/L	425.1	08/12/05	KYT
Nitrite, as Nitrogen	0.048 I	0.020	0.080	mg/L	353.2	08/13/05	KYT
Nitrate, as Nitrogen	U	0.020	0.080	mg/L	353.2	08/13/05	KYT
Nitrate-Nitrite, as N	0.063 I	0.020	0.080	mg/L	353.2	08/13/05	KYT
Odor	1	1		T.O.N.	140.1	08/12/05	JGT
pH (Laboratory)	7.6			pH Units	150.1	08/12/05	TRC
Radium 226	1.3±0.1	0.1	0.4	pCi/L	903.1	08/26/05	E84088
Radium 228	0.5±0.5	0.5	2.0	pCi/L	RA-05	08/30/05	E84088
Sulfate	U	50	200	mg/L	375.4	08/19/05	EMS
Total Coliform	Absent	1		cfu/100 ml	SM9223	08/12/05	JGT
Total Coliform Date & Time Sampled: 08/11/05 11:00							
Total Coliform Date & Time Analyzed: 08/12/05 16:03							
Total Dissolved Solids	4300	10	40	mg/L	160.1	08/15/05	EMS
Turbidity	0.49	0.10	0.40	ntu	180.1	08/12/05	JGT

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301 South College Street Lake Worth, FL

SAMPLE ID: Well F-1

Collected by: Scott R. Edick  
Jim Anderson

Collected on: 08/11/05  
Received on: 08/12/05

Date of Analysis: 08/18/05  
Date of Extraction: 08/15/05

### 508 ORGANOHALIDE PESTICIDES 62-550.310(2)(c) FAC

PARAMETER	RESULT	MDL	PQL	UNITS	ANALYST
Chlordane	U	0.50	2.00	µg/L	RGC
Endrin	U	0.10	0.40	µg/L	RGC
Heptachlor	U	0.10	0.40	µg/L	RGC
Heptachlor epoxide	U	0.10	0.40	µg/L	RGC
Hexachlorobenzene	U	0.10	0.40	µg/L	RGC
Lindane	U	0.10	0.40	µg/L	RGC
Methoxychlor	U	0.20	0.80	µg/L	RGC
Toxaphene	U	1.0	4.0	µg/L	RGC
PCB 1016	U	0.20	0.80	µg/L	RGC
PCB 1221	U	0.20	0.80	µg/L	RGC
PCB 1240	U	0.20	0.80	µg/L	RGC
PCB 1242	U	0.20	0.80	µg/L	RGC
PCB 1248	U	0.20	0.80	µg/L	RGC
PCB 1254	U	0.20	0.80	µg/L	RGC
PCB 1260	U	0.20	0.80	µg/L	RGC

U=Analyte not detected  
MDL=Minimum Detection Limit  
PQL=Practical Quantitation Limit

Laboratory Certification No. E86188  
I=Reported value is between MDL and PQL

## CERTIFICATE OF ANALYSIS

All Webb's Enterprises, Inc.  
309 Commerce Way  
Jupiter, FL 33458

September 19, 2005  
Report: 2005/08312  
Sample No: 2005/08312- 1

**Attention: Tami Wells**

**Project: City Of Lake Worth**  
301 South College Street Lake Worth, FL

**SAMPLE ID: Well F-1**

Collected by: Scott R. Edick  
Jim Anderson

Collected on: 08/11/05  
Received on: 08/12/05

Date of Analysis: 08/16/05  
Date of Extraction: 08/15/05

### 508.1 CHLORINATED PESTICIDES (62-550 FAC)

PARAMETER	RESULT	MDL	PQL	UNITS	ANALYST
Alachlor	U	0.10	0.40	µg/L	RGC
Atrazine	U	1.0	4.0	µg/L	RGC
Hexachlorocyclopentadiene	U	0.10	0.40	µg/L	RGC
Simazine	U	1.0	4.0	µg/L	RGC

U=Analyte not detected  
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Attention: Tami Wells

Project: City Of Lake Worth  
301 South College Street Lake Worth, FL

SAMPLE ID: Well F-1

Collected by: Scott R. Edick  
Jim Anderson

Collected on: 08/11/05  
Received on: 08/12/05

Date of Analysis: 08/20/05  
Date of Extraction: 08/15/05

### 515.1 HERBICIDES (62-550 FAC)

PARAMETER	RESULT	MDL	PQL	UNITS	ANALYST
Dalapon	U	0.50	2.00	µg/L	RGC
Dinoseb	U	0.50	2.00	µg/L	RGC
Pentachlorophenol	U	0.50	2.00	µg/L	RGC
Picloram	U	0.50	2.00	µg/L	RGC
2,4-D	U	0.50	2.00	µg/L	RGC
2,4,5-TP (Silvex)	U	0.10	0.40	µg/L	RGC

U=Analyte not detected  
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Jim Anderson

Collected on: 08/11/05  
Received on: 08/12/05

Date of Analysis: 08/13/05

### 524.2 TRIHALOMETHANES (THM'S)

PARAMETER	RESULT	MDL	PQL	UNITS	ANALYST
Bromodichloromethane	U	0.5	2.0	µg/L	EMH
Bromoform	U	0.5	2.0	µg/L	EMH
Chloroform	U	0.5	2.0	µg/L	EMH
Dibromochloromethane	U	0.5	2.0	µg/L	EMH
Total Trihalomethanes	U			µg/L	EMH

U = Analyte not detected  
MDL = Minimum Detection Limit  
PQL = Practical Quantitation Limit

Laboratory Certification No. E86188  
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Attention: Tami Wells

Project: City Of Lake Worth  
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SAMPLE ID: Well F-1

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Jim Anderson

Collected on: 08/11/05  
Received on: 08/12/05

Date of Analysis: 08/13/05

### 524.2 VOLATILE ORGANIC COMPOUNDS (62-550)

PARAMETER	RESULT	MDL	PQL	UNITS	ANALYST
Benzene	U	0.5	2.0	µg/L	EMH
Carbon tetrachloride	U	0.5	2.0	µg/L	EMH
Chlorobenzene	U	0.5	2.0	µg/L	EMH
1,2-Dichlorobenzene	U	0.5	2.0	µg/L	EMH
1,4-Dichlorobenzene	U	0.5	2.0	µg/L	EMH
1,2-Dichloroethane	U	0.5	2.0	µg/L	EMH
1,1-Dichloroethene	U	0.5	2.0	µg/L	EMH
cis-1,2-Dichloroethene	U	0.5	2.0	µg/L	EMH
trans-1,2-Dichloroethene	U	0.5	2.0	µg/L	EMH
Dichloromethane	U	0.5	2.0	µg/L	EMH
1,2-Dichloropropane	U	0.5	2.0	µg/L	EMH
Ethylbenzene	U	0.5	2.0	µg/L	EMH
Styrene	U	0.5	2.0	µg/L	EMH
Tetrachloroethylene	U	0.5	2.0	µg/L	EMH
Toluene	U	0.5	2.0	µg/L	EMH
1,2,4-Trichlorobenzene	U	0.5	2.0	µg/L	EMH
1,1,1-Trichloroethane	U	0.5	2.0	µg/L	EMH
1,1,2-Trichloroethane	U	0.5	2.0	µg/L	EMH
Trichloroethylene	U	0.5	2.0	µg/L	EMH
Vinyl chloride	U	0.5	2.0	µg/L	EMH
Xylenes, Total	U	0.5	2.0	µg/L	EMH

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PQL = Practical Quantitation Limit

Laboratory Certification No. E86188  
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## CERTIFICATE OF ANALYSIS

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Analyses contained herein conform to EPA, Standard Methods and DEP approved methods, unless otherwise noted. Subcontracted analyses are denoted by certification number in the analyst column. All relevant quality assurance samples were within specified control limits unless otherwise stated. Uncertainties for test results are available upon request. Envirodyne certifies that its test results meet all requirements of the NELAC Standards, where applicable. For questions, please call the project manager at the number listed above.

This is the last page of the report. See bottom of page for total pages.

Bala Somasundaram  
Project Manager

Victoria B. Alexander  
Quality Assurance Officer

4805 NW 2nd Avenue • Boca Raton, FL 33431  
(800) 713-7737 • Fax (561) 989-5204  
eddyne@bellsouth.net

PROJECT NUMBER	PROJECT NAME	P.O. NUMBER	SAMPLE TYPE	PRESERVATIVE	NO. OF CONTAINERS	RUSH TAT (SURCHARGE)
Well F-1	City of Lake Worth					<input type="checkbox"/>
PROJECT LOCATION	301 South College Street Lake Worth FL 33460					
CLIENT NAME	CLIENT ADDRESS					
All Webbs Enterprises Inc.	309 Commerce Way Jupiter FL 33458					
	PHONE 561-746-2574 FAX 561-746-4199					
	E-MAIL					
SAMPLE INFORMATION						
NUMBER	DATE	TIME	IDENTIFICATION	SOLID	LIQUID	REMARKS
1	8-11-05	11:00 AM	Well F-1 Primary + Secondary Drinking Standards	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	33
2						
3						
4						
5						
6						
7						
8						
9						
10						
SAMPLE COLLECTED BY Scott R. Edick/Anderson				ARE THESE SAMPLES LISTED OR CHARACTERISTIC HAZARDOUS WASTE? ARE THESE SAMPLES FROM		TOTAL OF ALL CONTAINERS
				<input type="checkbox"/> PETROLEUM <input type="checkbox"/> DRY CLEANER OR <input checked="" type="checkbox"/> OTHER SITE?		33
SEND REPORT TO (PERSON)				RELINQUISHED BY	RECEIVED BY	DATE
Tami Wells				Tami Wells	Ray Wells	8/12/05
SAMPLES CONDITION				DATE	TIME	TIME
intact 4°C				8/12/05	12:00	12:00
LOG NUMBER				8/12/05	13:00	13:00
2005 08 312						
I waive NELAC protocol <input checked="" type="checkbox"/>						