

Supplemental Site Certification Application Sufficiency Response Attachments



Orlando Utilities Commission Curtis H. Stanton Energy Center Combined Cycle Unit A

B&V Project 98362

April 2001



**Curtis H. Stanton Energy Center
Combined Cycle Unit A**

RECEIVED

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BUREAU OF AIR REGULATION

Correspondence

Sufficiency Report Attachments

0950137-002-AC

PSD-FL-313

4/23/01

Manual Number CHSEC- 006

Issued To C. Fancy

Location CDC Mail

Attachment A
Ground Water Quarterly Analytical Reports
1999-2000

TestAmerica

INCORPORATED

January 3, 2001

Page 1

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

Order Number: 8596
Project:
Date Received: 12/07/00

ATTN: JOHN GRAY

Sample Identification	Lab Number	Collection Date and Time	
SEC MW-10	00-F26758	11/27/00	10:40
SEC MW-9	00-F26759	11/27/00	11:30
SEC MW-8	00-F26760	11/27/00	11:55
SEC MW-11	00-F26761	11/27/00	12:40
SEC SW DITCH	00-F26762	11/27/00	13:00
SEC MW-13	00-F26763	11/27/00	13:15
SEC MW-12	00-F26764	11/27/00	13:40
SEC MW-4	00-F26765	11/28/00	10:30
SEC MW-3	00-F26766	11/28/00	11:10
SEC MW-3FD	00-F26767	11/28/00	11:15
SEC OW-4	00-F26768	11/28/00	11:40
SEC MW-7	00-F26769	11/28/00	12:00
SEC MW-6	00-F26770	11/28/00	12:30
SEC MW-1	00-F26771	11/28/00	13:15
SEC PRODUCTION WELL	00-F26772	11/29/00	10:45
SEC MW-2	00-F26773	11/29/00	11:30
SEC MW-5	00-F26774	11/29/00	12:10
SEC MW-14	00-F26775	11/29/00	13:00
SEC MAKE-UP POND	00-F26776	11/30/00	10:30

Approved By: _____

Mark Rusler
Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

Attachments: chain-of-custody/field sheet

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-10
 Lab Number: 00-F26758
 Date Collected: 11/27/00
 Time Collected: 10:40
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	4.260		mg/l	0.5000	1	12/21/00	12:30	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 1.00	+/- .8	pCi/L	1.00		12/26/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-9
 Lab Number: 00-F26759
 Date Collected: 11/27/00
 Time Collected: 11:30
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	11.80		mg/l	0.5000	1	12/21/00	12:33	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	2.80	+/-	1.3 pCi/L	1.50		12/26/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-8
 Lab Number: 00-F26760
 Date Collected: 11/27/00
 Time Collected: 11:55
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	14.30		mg/l	0.5000	1	12/21/00	12:35	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	1.30	+/- 1	pCi/L	1.30		12/26/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-11
 Lab Number: 00-F26761
 Date Collected: 11/27/00
 Time Collected: 12:40
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	104.0		mg/l	0.5000	1	12/21/00	12:38	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 5.00	+/- 3.1	pCi/L	5.00		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC SW DITCH
 Lab Number: 00-F26762
 Date Collected: 11/27/00
 Time Collected: 13:00
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	117.0		mg/l	0.5000	1	12/21/00	12:41	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 5.30	+/- 3.3	pCi/L	5.30		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

Order Number: 8596
 Project:
 Sample ID: SEC MW-13
 Lab Number: 00-F26763
 Date Collected: 11/27/00
 Time Collected: 13:15
 Date Received: 12/07/00

ATTN: JOHN GRAY

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	14.10		mg/l	0.5000	1	12/21/00	12:43	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	3.80	+/-	1.4 pCi/L	1.50		12/26/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-12
 Lab Number: 00-F26764
 Date Collected: 11/27/00
 Time Collected: 13:40
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	75.60		mg/l	0.5000	1	12/21/00	12:46	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	7.70	+/- 2.8	pCi/L	3.80		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-4
 Lab Number: 00-F26765
 Date Collected: 11/28/00
 Time Collected: 10:30
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	6.490		mg/l	0.5000	1	12/21/00	12:49	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 1.80	+/- 1.1	pCi/L	1.80		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-3
 Lab Number: 00-F26766
 Date Collected: 11/28/00
 Time Collected: 11:10
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	7.510		mg/l	0.5000	1	12/21/00	12:51	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 1.40	+/- .9	pCi/L	1.40		12/26/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-3FD
 Lab Number: 00-F26767
 Date Collected: 11/28/00
 Time Collected: 11:15
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	7.510		mg/l	0.5000	1	12/21/00	13:07	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	1.50	+/- .9	pCi/L	1.20		12/26/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC OW-4
 Lab Number: 00-F26768
 Date Collected: 11/28/00
 Time Collected: 11:40
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	8.590		mg/l	0.5000	1	12/21/00	13:09	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 1.30	+/- .8	pCi/L	1.30		12/26/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-7
 Lab Number: 00-F26769
 Date Collected: 11/28/00
 Time Collected: 12:00
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	4.690		mg/l	0.5000	1	12/21/00	13:12	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	0.800	+/- .6	pCi/L	0.800		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-6
 Lab Number: 00-F26770
 Date Collected: 11/28/00
 Time Collected: 12:30
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	6.270		mg/l	0.5000	1	12/21/00	13:14	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 0.900	+/- .6	pCi/L	0.900		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-1
 Lab Number: 00-F26771
 Date Collected: 11/28/00
 Time Collected: 13:15
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	25.90		mg/l	0.5000	1	12/21/00	13:17	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	2.30	+/- 1.3	pCi/L	1.80		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC PRODUCTION WELL
 Lab Number: 00-F26772
 Date Collected: 11/29/00
 Time Collected: 10:45
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	10.90		mg/l	0.5000	1	12/21/00	13:22	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 1.70	+/- 1.1	pCi/L	1.70		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

Order Number: 8596
 Project:
 Sample ID: SEC MW-2
 Lab Number: 00-F26773
 Date Collected: 11/29/00
 Time Collected: 11:30
 Date Received: 12/07/00

ATTN: JOHN GRAY

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	0.00040		mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	9.340		mg/l	0.5000	1	12/21/00	13:26	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	< 1.70	+/- 1.1	pCi/L	1.70		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-5
 Lab Number: 00-F26774
 Date Collected: 11/29/00
 Time Collected: 12:10
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8883
Sodium, Total	20.50		mg/l	0.5000	1	12/21/00	13:29	KS	6010B	8827
GENERAL PARAMETERS										
Gross Alpha	1.80	+/- .6	pCi/L	0.700		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MW-14
 Lab Number: 00-F26775
 Date Collected: 11/29/00
 Time Collected: 13:00
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8888
Sodium, Total	13.10		mg/l	0.5000	1	12/21/00	13:32	KS	6010B	8825
GENERAL PARAMETERS										
Gross Alpha	3.80	+/- 1.8	pCi/L	2.40		12/27/00		subcon		9473

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 8596
 Project:
 Sample ID: SEC MAKE-UP POND
 Lab Number: 00-F26776
 Date Collected: 11/30/00
 Time Collected: 10:30
 Date Received: 12/07/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	12/20/00	10:04	RQ	7470A	8888
Sodium, Total	64.40		mg/l	0.5000	1	12/21/00	13:34	KS	6010B	8825
GENERAL PARAMETERS										
Gross Alpha	< 1.70	+/- 1	pCi/L	1.70		12/21/00		subcon		9473
Radium 226	< 0.20	+/- .1	pCi/L	0.20		12/28/00		subcon	903.1	9473
Radium 228	< 1.30	+/- .8	pCi/L	1.30		12/28/00		subcon	Brks/blanch	9473

CLIENT: OUC WATER QUALITY LAB

Order No.: 8596

Project:

Qualifier Definitions:

- B = results based upon colony counts outside the acceptable range
- I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- J1 = surrogate recovery limits have been exceeded
- J3 = the reported value failed to meet the established quality control criteria for either precision and/or accuracy
- J4 = the sample matrix interfered with the ability to make an accurate determination
- J5 = the data is questionable because of improper lab or field protocols
- K = off-scale low, actual value is 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
- V = the analyte was detected in both the sample and the associated method blank
- Z = too many colonies present (TNTC)

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/10/01
 OUC Log #: 0011-067-7

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 1
 Date Sampled: 11/28/00
 Time Sampled: 1:15
 Date Received: 11/28/00
 Collected by: MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.30	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.006	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.24	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	108	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.002	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	26.0	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	2.46	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	8.18	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.05	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	25.9	mg/L	6010B	0.5		12/21/00	KS
NICKEL	0.012	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.003	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/19/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	>30	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	777.6	us	SM2510B	0	11/28/00	MA
TDS	579	mg/L	SM2540C	1	12/5/00	JS
pH	5.55	pH units	SM4500HB	0	11/28/00	MA
CHLORIDE	109	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	0.43	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	BDL	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	2.5	mg/L	SM4500SO3	1.0	11/28/00	MA
TURBIDITY	51	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	2.3	pCi/L	EPA900.0	1.8	12/27/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
 FDOH LAB ID # E53566

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/10/01
 OUC Log #: 0011-070-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 2
 Date Sampled: 11/29/00
 Time Sampled: 11:30
 Date Received: 11/29/00
 Collected by: BC

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.44	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	BDL	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.074	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	83.4	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.003	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	2.08	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	0.0004	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	1.0	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	0.48	mg/L	SM3111B	0.02		12/17/00	JNG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	9.34	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.001	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	>30	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	616	us	SM2510B	0	11/29/00	BC
TDS	360	mg/L	SM2540C	1	12/5-6/00	JS
pH	6.37	pH units	SM4500HB	0	11/29/00	BC
CHLORIDE	11.0	mg/L	EPA300.0	0.1	11/30/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/30/00	JK
PHOSPHATE TOTAL	0.51	mg/L	EPA365.2	0.05	11/30/00	JNG
SULFATE	6.71	mg/L	EPA300.0	0.06	11/30/00	JK
SULFITE	<2.0	mg/L	SM4500SO3	1.0	11/29/00	BC
TURBIDITY	8.9	NTU	EPA180.1	0.01	11/30/00	JS
GROSS ALPHA (TOTAL)	BDL	pCi/L	EPA900.0	1.70	12/27/00	SUCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
 FDOH LAB ID # E53566

CERTIFICATE OF ANALYSIS

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 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-067-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 3
 Date Sampled: 11/28/00
 Time Sampled: 11:10A
 Date Received: 11/28/00
 Collected by: MA/BC

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.25	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	BDL	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.11	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	10.1	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	0.49	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	1.19	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	1.91	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.03	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	7.51	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.07	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.001	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	10	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	100.1	us	SM2510B	0	11/28/00	MA
TDS	90	mg/L	SM2540C	1	11/30/00	JS
pH	4.69	pH units	SM4500HB	0	11/28/00	MA
CHLORIDE	15.8	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/28/00	JNG
SULFATE	2.65	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	3	mg/L	SM4500SO3	1.0	11/28/00	MA
TURBIDITY	2.6	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	BDL	pCi/L	EPA900.0	1.4	12/26/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
 FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-067-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 3 Dup
 Date Sampled: 11/28/00
 Time Sampled: 11:15A
 Date Received: 11/28/00
 Collected by: MA/BC

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.28	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	BDL	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.14	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/5/01	JNG
CALCIUM	10.6	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	0.5	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	1.32	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	2	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	7.51	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.06	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.001	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	10	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	100.1	us	SM2510B	0	11/28/00	MA
TDS	89	mg/L	SM2540C	1	11/30/00	JS
pH	4.69	pH units	SM4500HB	0	11/28/00	MA
CHLORIDE	15.7	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	2.44	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	3	mg/L	SM4500SO3	1.0	11/28/00	MA
TURBIDITY	2.1	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	1.5	pCi/L	EPA900.0	1.2	11/26/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-067-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 4
 Date Sampled: 11/28/00
 Time Sampled: 10:30A
 Date Received: 11/28/00
 Collected by: MA/MC

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.27	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.001	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.042	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	1.95	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	0.7	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	1	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	1.11	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	6.49	mg/L	6010B	0.5		12/21/00	JNG
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	0.003	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.002	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	12	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	46.1	us	SM2510B	0	11/28/00	MA
TDS	52	mg/L	SM2540C	1	11/30/00	JS
pH	3.98	pH units	SM4500HB	0	11/28/00	MA
CHLORIDE	10.2	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	3.09	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	3.8	mg/L	SM4500SO3	1.0	11/28/00	MA
TURBIDITY	1.5	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	BDL	pCi/L	EPA900.0	1.8	12/27/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
DATE: 10/10/00
OUC Log #: 0011-070-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 5
Date Sampled: 11/29/00
Time Sampled: 12:10
Date Received: 11/29/00
Collected by: BC

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	1.60	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.002	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.099	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	38.6	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.002	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	2.29	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RO
POTASSIUM	38.1	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	6.54	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	20.5	mg/L	6010B	0.5		12/21/00	KS
NICKEL	0.002	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.002	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.007	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	>30	CU	SM2120B	0		11/29/00	JNG
SPECIFIC COND.	518	us	SM2510B	0		11/29/00	BC
TDS	367	mg/L	SM2540C	1		12/5/00	JS
pH	4.36	pH units	SM4500HB	0		11/29/00	BC
CHLORIDE	39.7	mg/L	EPA300.0	0.1		11/30/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013		11/30/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05		12/18/00	JNG
SULFATE	172	mg/L	EPA300.0	0.06		11/30/00	JK
SULFITE		mg/L	SM4500SO3	1.0	NOT SCREENED		
TURBIDITY	4.9	NTU	EPA180.1	0.01		11/30/00	JS
GROSS ALPHA (TOTAL)	1.80	pCi/L	EPA900.0	0.70		12/27/00	subcon

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-067-6

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 6
 Date Sampled: 11/28/00
 Time Sampled: 12:30P
 Date Received: 11/28/00
 Collected by: BC/MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.4	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.002	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.012	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	1.4	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	0.28	mg/L	SM3111B	0.02		12/16/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	0.65	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	0.8	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/27/00	JNG
MOLYBDENUM	0.005	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	6.27	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.001	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	0.015	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	16	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	50.4	us	SM2510B	0	11/28/00	MA
TDS	46	mg/L	SM2540C	1	12/5/00	JS
pH	4.11	pH units	SM4500HB	0	11/28/00	MA
CHLORIDE	12.8	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	0.23	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	>2	mg/L	SM4500SO3	1.0	11/28/00	MA
TURBIDITY	1.3	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	BDL	pCi/L	EPA900.0	0.9	12/27/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
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PAGE: Page 1 of 2
DATE: 1/10/01
OUC Log #: 0011-067-5

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 7
Date Sampled: 11/28/00
Time Sampled: 12:00
Date Received: 11/28/00
Collected by: MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.53	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	BDL	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.026	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	2.20	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	0.32	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/21/00	RQ
POTASSIUM	0.83	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	0.75	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	4.69	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.001	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.002	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	10	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	42.6	us	SM2510B	0	11/28/00	MA
TDS	48	mg/L	SM2540C	1	12/5/00	JS
pH	4.36	pH units	SM4500HB	0	11/28/00	MA
CHLORIDE	9.68	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	0.11	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	1.83	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	2.2	mg/L	SM4500SO3	1.0	11/28/00	MA
TURBIDITY	4.1	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	0.80	pCi/L	EPA900.0	0.8	12/17/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/10/01
 OUC Log #: 0011-066-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 8
 Date Sampled: 11/27/00
 Time Sampled: 11:55
 Date Received: 11/27/00
 Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.89	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.001	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.084	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	1.77	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	6.53	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RO
POTASSIUM	4.15	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	4.23	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	14.3	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	0.004	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.01	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	>30	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	161.7	us	SM2510B	0	11/27/00	MA
TDS	96	mg/L	SM2540C	1	11/30/00	JS
pH	3.78	pH units	SM4500HB	0	11/27/00	MA
CHLORIDE	30.0	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	31.3	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	2.3	mg/L	SM4500SO3	1.0	11/27/00	MA
TURBIDITY	14.0	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	1.3	pCi/L	EPA900.0	1.3	12/26/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

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CLIENT: STANTON ENERGY CENTER
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 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/10/01
 OUC Log #: 0011-066-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 9
 Date Sampled: 11/27/00
 Time Sampled: 11:30
 Date Received: 11/27/00
 Collected by: MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.89	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.001	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.07	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	2.06	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.002	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	5.96	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	6	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	4.09	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	11.8	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	0.01	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.002	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	>30	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	164.4	us	SM2510B	0	11/27/00	MA
TDS	92	mg/L	SM2540C	1	11/30/00	JS
pH	3.64	pH units	SM4500HB	0	11/27/00	MA
CHLORIDE	26.6	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	33.8	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	2	mg/L	SM4500SO3	1.0	11/27/00	MA
TURBIDITY	17	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	2.8	pCi/L	EPA900.0	1.5	12/26/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/10/01
 OUC Log #: 0011-066-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 10
 Date Sampled: 11/27/00
 Time Sampled: 10:40
 Date Received: 11/27/00
 Collected by: BC & MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.26	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.002	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.014	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	1.5	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	0.5	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	0.44	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	0.94	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	0.007	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	4.26	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	0.028	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.01	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.003	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	10	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	38.2	us	SM2510B	0	11/27/00	MA
TDS	40	mg/L	SM2540C	1	11/30/00	JS
pH	3.75	pH units	SM4500HB	0	11/27/00	MA
CHLORIDE	6.17	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	2.53	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	>2	mg/L	SM4500SO3	1.0	11/27/00	MA
TURBIDITY	0.65	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	BDL	pCi/L	EPA900.0	1.00	12/26/00	subcon

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
 FDOH LAB ID # E53566

CERTIFICATE OF ANALYSIS

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PAGE: Page 1 of 2
 DATE: 1/10/01
 OUC Log #: 0011-066-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 11
 Date Sampled: 11/27/00
 Time Sampled: 12:40
 Date Received: 11/27/00
 Collected by: MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.002	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	4.34	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.002	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.55	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	0.0004	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	155	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	5.97	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	47.8	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	8.23	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.04	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	104	mg/L	6010B	0.5		12/21/00	JNG
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	0.004	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.03	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

COLOR	20	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	1793	us	SM2510B	0	11/27/00	MA
TDS	1079	mg/L	SM2540C	1	11/30/00	JS
pH	4.22	pH units	SM4500HB	0	11/27/00	MA
CHLORIDE	466	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	0.06	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	219	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	3	mg/L	SM4500SO3	1.0	11/27/00	MA
TURBIDITY	15	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	BDL	pCi/L	EPA900.0	5	12/27/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-066-7

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 12
 Date Sampled: 11/27/00
 Time Sampled: 1:40
 Date Received: 11/27/00
 Collected by: MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	11.8	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.002	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.11	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	0.0005	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	121	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.002	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	4.2	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	32.5	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	12.3	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.03	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	75.6	mg/L	6010B	0.5		12/21/00	KS
NICKEL	0.005	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.002	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.03	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

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COLOR	14	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	1551	us	SM2510B	0	11/27/00	MA
TDS	1120	mg/L	SM2540C	1	11/30/00	JS
pH	3.69	pH units	SM4500HB	0	11/27/00	MA
CHLORIDE	198	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	664	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	3	mg/L	SM4500SO3	1.0	11/27/00	MA
TURBIDITY	1.3	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	7.7	pCi/L	EPA900.0	3.8	12/27/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-066-6

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 13
 Date Sampled: 11/27/00
 Time Sampled: 1:15
 Date Received: 11/27/00
 Collected by: MA

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	3.4	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.003	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.052	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	13.6	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.015	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	1.64	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	4.54	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	5.39	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	14.1	mg/L	6010B	0.5		12/21/00	KS
NICKEL	0.004	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.001	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	0.012	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

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COLOR	>30	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	266.6	us	SM2510B	0	11/27/00	MA
TDS	154	mg/L	SM2540C	1	11/30/00	JS
pH	3.6	pH units	SM4500HB	0	11/27/00	MA
CHLORIDE	33.5	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	0.15	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	BDL	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	71.9	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	>2	mg/L	SM4500SO3	1.0	11/27/00	MA
TURBIDITY	5.3	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	3.8	pCi/L	EPA900.0	1.5	12/26/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-070-5

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 14
 Date Sampled: 11/29/00
 Time Sampled: 1:00P
 Date Received: 11/29/00
 Collected by: BC

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.59	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	0.001	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.28	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0003		1/4/01	JNG
CALCIUM	126	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.002	mg/L	SM3113B	0.001		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	6.83	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	24	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	9051	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.04	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	13.1	mg/L	6010B	0.5		12/21/00	KS
NICKEL	0.002	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.003	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.06	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	BDL	mg/L	SM3113B	0.001		12/22/00	JNG

PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	1016	us	SM2510B	0	11/29/00	BC
TDS	686	mg/L	SM2540C	1	12/5/00	JS
pH	5.92	pH units	SM4500HB	0	11/29/00	BC
CHLORIDE	40	mg/L	EPA300.0	0.1	11/30/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/30/00	JK
PHOSPHATE TOTAL	0.06	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	185	mg/L	EPA300.0	0.06	11/30/00	JK
SULFITE	2.2	mg/L	SM4500SO3	1.0	11/29/00	BC
TURBIDITY	15	NTU	EPA180.1	0.01	11/30/00	JS
GROSS ALPHA (TOTAL)	3.8	pCi/L	EPA900.0	2.4	12/27/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/11/01
 OUC Log #: 0011-067-4

Sample Description: SEC - OW4

Label: OW4
 Date Sampled: 11/28/00
 Time Sampled: 11:40A
 Date Received: 11/28/00
 Collected by: MA/BC

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM3113B	0.0003		12/29/00	JNG
ALUMINUM	0.17	mg/L	SM3113B	0.003		1/8/01	JNG
ARSENIC	BDL	mg/L	SM3113B	0.001		12/20/00	JNG
BARIUM	0.087	mg/L	SM3113B	0.003		1/5/01	JNG
BERYLLIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CALCIUM	12.1	mg/L	SM3111B	0.1		1/2/01	JNG
CADMIUM	BDL	mg/L	SM3113B	0.0002		1/4/01	JNG
CHROMIUM	0.001	mg/L	SM3113B	0.002		12/19/00	JNG
COPPER	BDL	mg/L	SM3111B	0.01		12/16/00	JNG
IRON	0.65	mg/L	SM3111B	0.02		12/26/00	JNG
MERCURY	BDL	mg/L	7470A	0.0002		12/20/00	RQ
POTASSIUM	2.17	mg/L	SM3111B	0.02		12/27/00	JNG
MAGNESIUM	1.85	mg/L	SM3111B	0.02		12/27/00	JNG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/16/00	JNG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/21/00	JNG
SODIUM	8.59	mg/L	6010B	0.5		12/21/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		12/18/00	JNG
LEAD	0.001	mg/L	SM3113B	0.001		12/18/00	JNG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/19/00	JNG
ZINC	0.02	mg/L	SM3111B	0.01		12/16/00	JNG
VANADIUM	0.001	mg/L	SM3113B	0.001		12/22/00	JNG

PAGE 2 OF 2

COLOR	4	CU	SM2120B	0	11/29/00	JNG
SPECIFIC COND.	130	us	SM2510B	0	11/28/00	MA
TDS	121	mg/L	SM2540C	1	12/5/00	JS
pH	4.39	pH units	SM4500HB	0	11/28/00	MA
CHLORIDE	10.7	mg/L	EPA300.0	0.1	11/28/00	JK
NITRATE	BDL	mg/L	EPA300.0	0.013	11/28/00	JK
PHOSPHATE TOTAL	0.06	mg/L	EPA365.2	0.05	12/18/00	JNG
SULFATE	47.9	mg/L	EPA300.0	0.06	11/28/00	JK
SULFITE	7	mg/L	SM4500SO3	1.0	11/28/00	MA
TURBIDITY	4	NTU	EPA180.1	0.01	11/29/00	JS
GROSS ALPHA (TOTAL)	BDL	pCi/L	EPA900.0	1.3	12/26/00	SUBCON

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: Stanton Energy
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
1	11-27-00	1040	MW10	X		3	pH = 3.75 Temp = 22.23 conductivity = 38.2 SO ₃ = >2	OU11-066-1 WQL
	11-27-00	1130	MW9	X		3	pH = 3.64 Temp = 25.20 conductivity = 164.4 SO ₃ = 2.0	-2 WQL
	11-27-00	1155	MW8	X		3	pH = 3.78 Temp = 24.81 conductivity = 161.7 SO ₃ = 2.3	-3 WQL
	11-27-00	1240	MW11	X		3	pH = 4.22 Temp = 23.15 conductivity = 179.3 SO ₃ = 3.0	-4 WQL
	11-27-00	1300	SW ditch	X		3	pH = 4.38 Temp = 19.09 conductivity = 207.4 SO ₃ = >2	-5 WQL
	11-27-00	1315	MW13	X		3	pH = 3.60 Temp = 24.42 conductivity = 266.6 SO ₃ = >2	-6 WQL
	11-27-00	1340	MW12	X		3	pH = 3.69 Temp = 24.63 conductivity = 155.1 SO ₃ = 3.0	-7 WQL
								WQL
								WQL
								WQL

1. Relinquished by: <u>Barbara Anderson</u>	Date: <u>11/27/00</u>	Time: <u>14:45</u>
2. Received by: <u>Caren Rascher</u>	Date: <u>11/27/00</u>	Time: <u>14:48</u>
3. Relinquished by:	Date:	Time:
4. Received by:	Date:	Time:
Received in laboratory by:	Date:	Time:

5. Relinquished by:	Date:	Time:
6. Received by:	Date:	Time:

Remarks: BOTTLE LOT NO. - SQ007-OUC
COOLER NO. - 32, 34, 35
15x1L bottles
Kit prepared by g

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: Stanton Energy
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers:

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	11-28-00	1030	MW4	X		3	PH=3.98 Temp=23.02 Conductivity=41.1 SO ₂ =3.8	CC11-067-1 WQL
	11-28-00	1110	MW3	X		3	PH=4.69 Temp=24.41 Conductivity=100.1 SO ₂ =3.0	-2 WQL
	11-28-00	1115	MW3 DUP	X		3	PH=4.69 Temp=24.41 Conductivity=100.1 SO ₂ =3.0	-3 WQL
	11-28-00	1140	OW4	X		3	PH=4.39 Temp=23.61 Conductivity=130. SO ₂ =7.0	-4 WQL
	11-28-00	1200	MW7	X		3	PH=4.36 Temp=22.82 Conductivity=42.6 SO ₂ =2.2	-5 WQL
	11-28-00	1230	MW6	X		3	PH=4.11 Temp=24.54 Conductivity=50.4 SO ₂ >2	-6 WQL
	11-28-00	1315	MW1	X		3	PH=5.55 Temp=24.43 Conductivity=77.6 SO ₂ =2.5	-7 WQL
								WQL
								WQL
								WQL

1. Relinquished by: <u>Marcia Anderson</u>	Date <u>11/28/00</u>	Time <u>1410</u>
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by:	Date	Time

Remarks: BOTTLE LOT NO. - S@007-OUC
COOLER NO. - 10, 14, 15
15x12 bottles
Kit prepared 11/24/00 y.

Received in laboratory by: <u>Jana S. [Signature]</u>	Date <u>11-28-00</u>	Time <u>1410</u>
--	-------------------------	---------------------

To: Mark Corbett
From: John N. Gray

OUC THIRD QUARTER MONITORING WELLS

Sample Id #	Station ID	DTW	Temperature (in Celcius)
0008-013-1	Southwest Ditch	NA	32.68
0008-013-2	MW 11	5.2	25.82
0008-013-3	MW 11 Dup	5.2	25.82
0008-013-4	MW 13	7.8	27.03
0008-013-5	MW 12	9.42	27.04
0008-013-6	MW 10	6.7	24.51
0008-013-7	MW 9	10.9	25.95
0008-013-8	MW 8	11.95	25.90
0008-013-9	MW 6	7.36	26.94
008-017-1	MW 7	3.1	24.92
008-017-2	OW 4	5.53	25.15
008-017-3	MW 4	5.45	25.00
008-017-4	MW 3	5.25	25.58
008-017-5	MW 3 Dup	5.25	25.58
008-017-6	MW 2	5.08	26.59
008-017-7	MW 1	8.81	26.19
0008-023-1	MW 14	4.81	26.94
0008-023-2	MW 5	7.34	25.94
0008-023-3	Prod Well	NA	25.24
0008-023-4	Make-up Supply Pond	NA	30.04

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September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
Project:
Sample ID: SEC MW-1
Lab Number: 00-F15736
Date Collected: 08/09/00
Time Collected: 13:10
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	24.90		mg/l	0.5000	1	8/17/00	17:52	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	4.50	+/- 1.3	pCi/L	1.60		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler
Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
 Project:
 Sample ID: SEC MW-2
 Lab Number: 00-F15735
 Date Collected: 08/09/00
 Time Collected: 12:40
 Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	11.50		mg/l	0.5000	1	8/17/00	17:49	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	< 1.60	+/- 1.0	pCi/L	1.60		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

TestAmerica

INCORPORATED

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

ATTN: JOHN GRAY

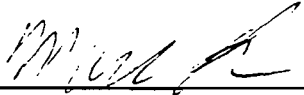
Order Number: 5568
Project:
Sample ID: SEC MW-3
Lab Number: 00-F15733
Date Collected: 08/09/00
Time Collected: 12:05
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	7.190		mg/l	0.5000	1	8/17/00	17:44	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	< 2.10	+/- 1.3	pCi/L	2.10		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____


Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
Project:
Sample ID: SEC MW-3 FD
Lab Number: 00-F15734
Date Collected: 08/09/00
Time Collected: 12:10
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	7.290		mg/l	0.5000	1	8/17/00	17:46	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	1.60	+/- 0.7	pCi/L	0.900		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: 

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

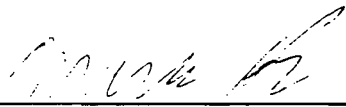
Order Number: 5568
 Project:
 Sample ID: SEC MW-4
 Lab Number: 00-F15732
 Date Collected: 08/09/00
 Time Collected: 11:30
 Date Received: 08/11/00

ATTN: JOHN GRAY

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	6.490		mg/l	0.5000	1	8/17/00	17:28	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	2.30	+/- 1.1	pCi/L	1.60		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: 

Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

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September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
Project:
Sample ID: SEC MW-5
Lab Number: 00-F15738
Date Collected: 08/10/00
Time Collected: 10:45
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	21.50		mg/l	0.5000	1	8/17/00	17:57	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	< 1.40	+/- 0.9	pCi/L	1.40		8/19/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: 

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / COAP990129

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INCORPORATED

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

ATTN: JOHN GRAY

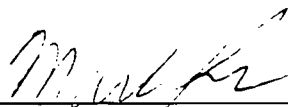
Order Number: 5568
Project:
Sample ID: SEC MW-6
Lab Number: 00-F15741
Date Collected: 08/08/00
Time Collected: 13:55
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	7.600		mg/l	0.5000	1	8/17/00	18:05	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	0.900	+/- 0.4	pCi/L	0.500		8/19/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____



Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568

Project:

Sample ID: SEC MW-7

Lab Number: 00-F15730

Date Collected: 08/09/00

Time Collected: 10:30

Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	4.950		mg/l	0.5000	1	8/17/00	17:23	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	< 1.80	+/- 1.2	pCi/L	1.80		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler
 Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
 Project:
 Sample ID: SEC MW-8
 Lab Number: 00-F15729
 Date Collected: 08/08/00
 Time Collected: 11:15
 Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	7.150		mg/l	0.5000	1	8/17/00	17:21	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	2.60	+/- 1.4	pCi/L	1.50		8/16/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler
 Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
 Project:
 Sample ID: SEC MW-9
 Lab Number: 00-F15728
 Date Collected: 08/08/00
 Time Collected: 10:35
 Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	6.720		mg/l	0.5000	1	8/17/00	17:18	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	2.10	+/- 1.1	pCi/L	1.20		8/16/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

[Signature]
 Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CGAP990129

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INCORPORATED

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

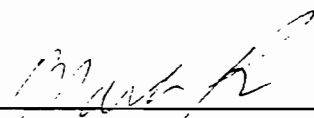
ATTN: JOHN GRAY

Order Number: 5568
Project:
Sample ID: SEC MW-10
Lab Number: 00-F15727
Date Collected: 08/08/00
Time Collected: 10:00
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	4.580		mg/l	0.5000	1	8/17/00	17:15	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	2.40	+/- 1.0	pCi/L	1.10		8/16/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: 

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839


ATTN: JOHN GRAY

Order Number: 5568
 Project:
 Sample ID: SEC MW-11
 Lab Number: 00-F15723
 Date Collected: 08/08/00
 Time Collected: 12:25
 Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	115.0		mg/l	0.5000	1	8/17/00	17:05	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	6.00	+/- 2.7	pCi/L	4.00		8/16/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: 

Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

Test America

INCORPORATED

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
Project:
Sample ID: SEC MW-11 FD
Lab Number: 00-F15724
Date Collected: 08/08/00
Time Collected: 12:35
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	120.0		mg/l	0.5000	1	8/17/00	17:07	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	8.60	+/- 2.5	pCi/L	3.30		8/16/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
 Project:
 Sample ID: SEC MW.12
 Lab Number: 00-F15726
 Date Collected: 08/08/00
 Time Collected: 13:30
 Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	60.00		mg/l	0.5000	1	8/17/00	17:13	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	4.20	+/-	1.0 pCi/L	1.20		8/17/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler
 Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

TestAmerica

INCORPORATED

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
Project:
Sample ID: SEC MW-13
Lab Number: 00-F15725
Date Collected: 08/08/00
Time Collected: 13:00
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	16.40		mg/l	0.5000	1	8/17/00	17:10	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	8.40	+/- 1.7	pCi/L	1.60		8/16/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler
Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

TestAmerica

INCORPORATED

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
3800 GARDENIA AVE
ORLANDO, FL 32839

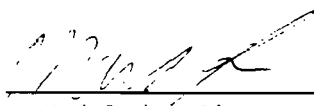
ATTN: JOHN GRAY

Order Number: 5568
Project:
Sample ID: SEC MW-14
Lab Number: 00-F15737
Date Collected: 08/10/00
Time Collected: 11:20
Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	12.80		mg/l	0.5000	1	8/17/00	17:54	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	5.00	+/- 1.4	pCi/L	1.80		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: 

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
 Project:
 Sample ID: SEC OW-4
 Lab Number: 00-F15731
 Date Collected: 08/09/00
 Time Collected: 11:00
 Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	10.20		mg/l	0.5000	1	8/17/00	17:26	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	2.70	+/-	1.1 pCi/L	1.40		8/18/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: _____

Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / COAP990129

Orlando Utilities Commission
Water Quality Lab
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 Phone: 407.244.8779
 Fax: 407.244.8780
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 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-017-7

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 1
 Date Sampled: 8/9/00
 Time Sampled: 1:10p
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.60	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.006	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.55	mg/L	SM3113B	0.001		10/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	136.6	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	26.0	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	2.56	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	9.74	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.06	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.004	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	24.9	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.007	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.007	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.07	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	>30	CU	SM2120B	0	8/10/00	DJ
SPECIFIC COND.	942	us	SM2510B	0	8/9/00	BC
TDS	663	mg/L	SM2540C	1	8/11/00	JS
pH	5.90	pH units	SM4500HB	0	8/9/00	BC
CHLORIDE	91.3	mg/L	EPA300.0	0.1	8/14/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.32	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	0.14	mg/L	EPA300.0	0.06	8/11/00	JK
SULFITE	4.0	mg/L	SM4500SO3	1.0	8/9/00	BC
TURBIDITY	46	NTU	EPA180.1	0.01	8/10/00	DJ
GROSS ALPHA (TOTAL)	4.50	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

Orlando Utilities Commission
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 Orlando, Florida 32802
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 Fax: 407.244.8780
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 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-017-6

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 2
 Date Sampled: 8/9/00
 Time Sampled: 12:40p
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	1.32	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.50	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	106.0	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	2.82	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	2.61	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	2.82	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.003	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	11.5	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.005	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	>30	CU	SM2120B	0	8/10/00	DJ
SPECIFIC COND.	601	us	SM2510B	0	8/9/00	BC
TDS	364	mg/L	SM2540C	1	8/12/00	JS
pH	6.46	pH units	SM4500HB	0	8/9/00	BC
CHLORIDE	14.2	mg/L	EPA300.0	0.1	8/11/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.59	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	12.9	mg/L	EPA300.0	0.06	8/11/00	JK
SULFITE	3.0	mg/L	SM4500SO3	1.0	8/9/00	BC
TURBIDITY	17	NTU	EPA180.1	0.01	8/10/00	DJ
GROSS ALPHA (TOTAL)	<1.60	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



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 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-017-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 3
 Date Sampled: 8/9/00
 Time Sampled: 12:05p
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.17	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	0.004	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.32	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	13.8	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.46	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	1.26	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	1.80	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.006	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	7.19	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.057	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	7	CU	SM2120B	0	8/10/00	DJ
SPECIFIC COND.	135	us	SM2510B	0	8/9/00	BC
TDS	90	mg/L	SM2540C	1	8/12/00	JS
pH	5.29	pH units	SM4500HB	0	8/9/00	BC
CHLORIDE	15.5	mg/L	EPA300.0	0.1	8/11/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.007	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	2.30	mg/L	EPA300.0	0.06	8/11/00	JK
SULFITE	2.8	mg/L	SM4500SO3	1.0	8/9/00	BC
TURBIDITY	1.9	NTU	EPA180.1	0.01	8/10/00	DJ
GROSS ALPHA (TOTAL)	<2.10	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

Orlando Utilities Commission
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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-017-5

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 3 Dup
 Date Sampled: 8/9/00
 Time Sampled: 12:10p
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.15	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.26	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	14.8	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	0.005	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.52	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	1.37	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	1.89	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.003	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	7.29	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.008	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	8	CU	SM2120B	0	8/10/00	DJ
SPECIFIC COND.	135	us	SM2510B	0	8/9/00	BC
TDS	92	mg/L	SM2540C	1	8/12/00	JS
pH	5.29	pH units	SM4500HB	0	8/9/00	BC
CHLORIDE	15.6	mg/L	EPA300.0	0.1	8/11/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.05	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	2.21	mg/L	EPA300.0	0.06	8/11/00	JK
SULFITE	2.8	mg/L	SM4500SO3	1.0	8/9/00	BC
TURBIDITY	2.3	NTU	EPA180.1	0.01	8/10/00	DJ
GROSS ALPHA (TOTAL)	1.60	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-017-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 4
 Date Sampled: 8/9/00
 Time Sampled: 11:30a
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.15	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.15	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	1.38	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.49	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	1.03	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	0.78	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.007	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	6.49	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.02	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	8	CU	SM2120B	0	8/10/00	DJ
SPECIFIC COND.	53	us	SM2510B	0	8/9/00	BC
TDS	38	mg/L	SM2540C	1	8/11/00	JS
pH	4.54	pH units	SM4500HB	0	8/9/00	BC
CHLORIDE	9.23	mg/L	EPA300.0	0.1	8/11/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.07	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	2.22	mg/L	EPA300.0	0.06	8/11/00	JK
SULFITE	3.6	mg/L	SM4500SO3	1.0	8/9/00	BC
TURBIDITY	1.0	NTU	EPA180.1	0.01	8/10/00	DJ
GROSS ALPHA (TOTAL)	2.30	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-023-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 5
 Date Sampled: 8/9/00
 Time Sampled: 10:45a
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	1.90	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.34	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	30.9	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	2.72	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	13.8	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	6.50	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	21.5	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.001	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.003	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	>30	CU	SM2120B	0	8/11/00	DJ
SPECIFIC COND.	489	us	SM2510B	0	8/10/00	BC
TDS	300	mg/L	SM2540C	1	8/12/00	JS
pH	4.17	pH units	SM4500HB	0	8/10/00	BC
CHLORIDE	31.2	mg/L	EPA300.0	0.1	8/14/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.07	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	145	mg/L	EPA300.0	0.06	8/14/00	JK
SULFITE	7.0	mg/L	SM4500SO3	1.0	8/10/00	BC
TURBIDITY	17	NTU	EPA180.1	0.01	8/11/00	DJ
GROSS ALPHA (TOTAL)	<1.40	pCi/L	EPA900.0	0+/-2.8	8/19/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-013-9

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 6
 Date Sampled: 8/8/00
 Time Sampled: 1:55p
 Date Received: 8/8/00
 Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.40	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.20	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	2.06	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.39	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	0.93	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	0.77	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	7.6	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.001	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.014	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	4	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	65.5	us	SM2510B	0	8/8/00	MA
TDS	39	mg/L	SM2540C	1	8/11/00	JS
pH	4.49	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	12.9	mg/L	EPA300.0	0.1	8/9/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.05	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	0.66	mg/L	EPA300.0	0.06	8/9/00	JK
SULFITE	<2.0	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	1.3	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	0.90	pCi/L	EPA900.0	0+/-2.8	8/19/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-017-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 7
 Date Sampled: 8/9/00
 Time Sampled: 10:30a
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.60	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	BDL	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.42	mg/L	SM3113B	0.001		10/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	2.07	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.41	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	1.15	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	0.72	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.006	mg/L	SM3113B	0.002		10/10/00	JG
SODIUM	4.95	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.004	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.12	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	22	CU	SM2120B	0	8/10/00	DJ
SPECIFIC COND.	51	us	SM2510B	0	8/9/00	BC
TDS	40	mg/L	SM2540C	1	8/11/00	JS
pH	4.46	pH units	SM4500HB	0	8/9/00	BC
CHLORIDE	8.90	mg/L	EPA300.0	0.1	8/11/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.13	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	1.79	mg/L	EPA300.0	0.06	8/11/00	JK
SULFITE	3.2	mg/L	SM4500SO3	1.0	8/9/00	BC
TURBIDITY	6.7	NTU	EPA180.1	0.01	8/10/00	DJ
GROSS ALPHA (TOTAL)	<1.80	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-013-8

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 8
 Date Sampled: 8/8/00
 Time Sampled: 11:15a
 Date Received: 8/8/00
 Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.44	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.29	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	0.92	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.62	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	0.83	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	1.03	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	7.15	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	8	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	68	us	SM2510B	0	8/8/00	MA
TDS	39	mg/L	SM2540C	1	8/11/00	JS
pH	4.32	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	15.4	mg/L	EPA300.0	0.1	8/9/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.05	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	4.30	mg/L	EPA300.0	0.06	8/9/00	JK
SULFITE	4.8	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	0.70	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	2.60	pCi/L	EPA900.0	0+/-2.8	8/16/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
DATE: 10/10/00
OUC Log #: 0008-013-7

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 9
Date Sampled: 8/8/00
Time Sampled: 10:35a
Date Received: 8/8/00
Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.60	mg/L	SM3113B	0.04		10/2/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.49	mg/L	SM3113B	0.001		10/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	0.84	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.83	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	0.82	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	1.89	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	6.72	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.10	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	6	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	81.7	us	SM2510B	0	8/8/00	MA
TDS	35	mg/L	SM2540C	1	8/11/00	JS
pH	4.21	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	13.0	mg/L	EPA300.0	0.1	8/9/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.05	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	7.43	mg/L	EPA300.0	0.06	8/9/00	JK
SULFITE	5.0	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	0.40	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	2.10	pCi/L	EPA900.0	0+/-2.8	8/16/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
 FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-013-6

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 10
 Date Sampled: 8/8/00
 Time Sampled: 10:00a
 Date Received: 8/8/00
 Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINIUM	0.17	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	BDL	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.40	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	0.60	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	BDL	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.39	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	0.40	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	0.59	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	4.58	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.001	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	6	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	42	us	SM2510B	0	8/8/00	MA
TDS	25	mg/L	SM2540C	1	8/11/00	JS
pH	4.13	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	6.52	mg/L	EPA300.0	0.1	8/9/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.05	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	2.72	mg/L	EPA300.0	0.06	8/9/00	JK
SULFITE	2.0	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	0.49	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	2.40	pCi/L	EPA900.0	0+/-2.8	8/16/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-013-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 11
 Date Sampled: 8/8/00
 Time Sampled: 12:25p
 Date Received: 8/8/00
 Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	6.60	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.66	mg/L	SM3113B	0.001		10/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	193.8	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	5.56	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	43.0	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	7.70	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.004	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	115.0	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.006	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.025	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

PAGE 2 OF 2

COLOR	12	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	2085	us	SM2510B	0	8/8/00	MA
TDS	1210	mg/L	SM2540C	1	8/11/00	JS
pH	4.16	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	542	mg/L	EPA300.0	0.1	8/10/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.08	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	204	mg/L	EPA300.0	0.06	8/10/00	JK
SULFITE	3.7	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	1.1	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	6.00	pCi/L	EPA900.0	0+/-2.8	8/16/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission

Water Quality Lab

3800 Gardenia Avenue

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ADDRESS: Orlando Utilities Commission
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Orlando, Florida 32801
Leonard Mancini

PAGE: Page 1 of 2
DATE: 10/10/00
OUC Log #: 0008-013-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 11Dup
Date Sampled: 8/8/00
Time Sampled: 12:35p
Date Received: 8/8/00
Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	6.78	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.002	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.76	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	205.2	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	4.50	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	42.0	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	7.77	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.019	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	120.0	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.004	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.008	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	10	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	2085	us	SM2510B	0	8/8/00	MA
TDS	1254	mg/L	SM2540C	1	8/11/00	JS
pH	4.16	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	542	mg/L	EPA300.0	0.1	8/10/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.10	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	204	mg/L	EPA300.0	0.06	8/10/00	JK
SULFITE	3.7	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	1.1	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	8.60	pCi/L	EPA900.0	0+/-2.8	8/16/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
 FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-013-5

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 12
 Date Sampled: 8/8/00
 Time Sampled: 1:30p
 Date Received: 8/8/00
 Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	5.34	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.28	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	34.2	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	2.22	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	12.8	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	7.37	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	60.0	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.002	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.003	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.10	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	8	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	718.7	us	SM2510B	0	8/8/00	MA
TDS	383	mg/L	SM2540C	1	8/11/00	JS
pH	4.09	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	134	mg/L	EPA300.0	0.1	8/10/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.05	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	103	mg/L	EPA300.0	0.06	8/10/00	JK
SULFITE	4.0	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	1.0	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	4.20	pCi/L	EPA900.0	0+/-2.8	8/17/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-013-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 13
 Date Sampled: 8/8/00
 Time Sampled: 1:00p
 Date Received: 8/8/00
 Collected by: Marcia Anderson

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	3.35	mg/L	SM3113B	0.003		10/2/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.24	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	12.9	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	1.22	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	2.19	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	4.03	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.003	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	16.4	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.001	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.003	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.02	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	16	CU	SM2120B	0	8/9/00	DJ
SPECIFIC COND.	284.6	us	SM2510B	0	8/8/00	MA
TDS	146	mg/L	SM2540C	1	8/11/00	JS
pH	3.89	pH units	SM4500HB	0	8/8/00	MA
CHLORIDE	39.3	mg/L	EPA300.0	0.1	8/9/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/9/00	JK
PHOSPHATE TOTAL	0.07	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	55.3	mg/L	EPA300.0	0.06	8/10/00	JK
SULFITE	3.3	mg/L	SM4500SO3	1.0	8/8/00	MA
TURBIDITY	0.65	NTU	EPA180.1	0.01	8/8/00	DJ
GROSS ALPHA (TOTAL)	8.40	pCi/L	EPA900.0	0+/-2.8	8/16/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager

Jennifer L. Koschewa, QA Officer

CompQAP #870156G

FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-023-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 14
 Date Sampled: 8/10/00
 Time Sampled: 11:20a
 Date Received: 8/10/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	3.24	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.57	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	117.7	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	0.003	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	4.32	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	11.3	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	5.05	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.008	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	12.8	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.001	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.005	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	>30	CU	SM2120B	0	8/11/00	DJ
SPECIFIC COND.	734	us	SM2510B	0	8/10/00	BC
TDS	481	mg/L	SM2540C	1	8/12/00	JS
pH	5.89	pH units	SM4500HB	0	8/10/00	BC
CHLORIDE	25.3	mg/L	EPA300.0	0.1	8/14/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.10	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	45.1	mg/L	EPA300.0	0.06	8/14/00	JK
SULFITE	6.0	mg/L	SM4500SO3	1.0	8/10/00	BC
TURBIDITY	12	NTU	EPA180.1	0.01	8/11/00	DJ
GROSS ALPHA (TOTAL)	5.00	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-023-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW 14
 Date Sampled: 8/10/00
 Time Sampled: 11:20a
 Date Received: 8/10/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	3.24	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.57	mg/L	SM3113B	0.001		10/9/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	117.7	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	0.003	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	4.32	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	11.3	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	5.05	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.008	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	12.8	mg/L	200.7	0.5		8/17/00	KS
NICKEL	0.001	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.005	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.04	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	>30	CU	SM2120B	0	8/11/00	DJ
SPECIFIC COND.	734	us	SM2510B	0	8/10/00	BC
TDS	481	mg/L	SM2540C	1	8/12/00	JS
pH	5.89	pH units	SM4500HB	0	8/10/00	BC
CHLORIDE	25.3	mg/L	EPA300.0	0.1	8/14/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.10	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	45.1	mg/L	EPA300.0	0.06	8/14/00	JK
SULFITE	6.0	mg/L	SM4500SO3	1.0	8/10/00	BC
TURBIDITY	12	NTU	EPA180.1	0.01	8/11/00	DJ
GROSS ALPHA (TOTAL)	5.00	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
 Jennifer L. Koschewa, QA Officer

CompQAP #870156G
 FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-017-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: OW 4
 Date Sampled: 8/9/00
 Time Sampled: 11:00a
 Date Received: 8/9/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.028	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.45	mg/L	SM3113B	0.001		10/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		10/9/00	JG
CALCIUM	13.7	mg/L	SM3111B	0.1			
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	1.41	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	2.20	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	1.54	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.004	mg/L	SM3113B	0.002		10/5/00	JG
SODIUM	10.2	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	8	CU	SM2120B	0	8/10/00	DJ
SPECIFIC COND.	163	us	SM2510B	0	8/9/00	BC
TDS	108	mg/L	SM2540C	1	8/11/00	JS
pH	4.71	pH units	SM4500HB	0	8/9/00	BC
CHLORIDE	10.5	mg/L	EPA300.0	0.1	8/11/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.10	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	45.8	mg/L	EPA300.0	0.06	8/11/00	JK
SULFITE	12	mg/L	SM4500SO3	1.0	8/9/00	BC
TURBIDITY	5	NTU	EPA180.1	0.01	8/10/00	DJ
GROSS ALPHA (TOTAL)	2.70	pCi/L	EPA900.0	0+/-2.8	8/18/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



The Reliable One[®]

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-023-4

Sample Description: SEC - MAKEUP WATER SUPPLY POND

Label: SUPPLY POND
 Date Sampled: 8/10/00
 Time Sampled: 12:00p
 Date Received: 8/10/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SODIUM	61.8	mg/L	200.7	0.5000		8/17/00	KS
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.38	mg/L	SM3113B	0.001		10/9/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/6/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
MAGNESIUM	6.86	mg/L	SM3111B	0.02		10/10/00	JG
LEAD	0.003	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.006	mg/L	SM3113B	0.001		8/16/00	JG
FLUORIDE	0.67	mg/L	EPA300.0	0.1		8/11/00	JK
NITRATE	1.39	mg/L	EPA300.0	0.10		8/11/00	JK
GROSS ALPHA (TOTAL)	<1.40	pCi/L	EPA900.0	0+/-2.8		8/22/00	Sub
RADIUM (226+228)	1.30	pCi/L				8/29/00	Sub
BENZENE	<0.23	ug/L	EPA 624	0.23		8/21/00	JS
Bis(2-CHLOROETHYL)ETHER)	<1.25	ug/L	EPA 625	1.25		8/24/00	JS
CHLOROFORM	23.0	ug/L	EPA 624	1.10		8/21/00	JS
1,2 DICHLOROETHANE	<0.93	ug/L	EPA 624	0.93		8/21/00	JS
1,1-DICHLOROETHENE	<0.23	ug/L	EPA 624	0.23		8/21/00	JS
DICHLOROMETHANE	<1.30	ug/L	EPA 624	1.30		8/21/00	JS
1,2 DIPHENYLHYDRAZINE	<1.00	ug/L	EPA 625	1.00		8/24/00	JS
TETRACHLOROETHYLENE	<0.71	ug/L	EPA 624	0.71		8/21/00	JS

1,1,1-TRICHLOROETHANE	<1.00	ug/L	EPA 624	1.0	8/21/00	JS
TRICHLOROETHYLENE	<0.81	ug/L	EPA 624	0.81	8/21/00	JS
VINYL CHLORIDE	<0.98	ug/L	EPA 624	0.98	8/21/00	JS
CHLORDANE	<0.49	ug/L	EPA 608	0.49	8/22/00	JK
METHOXYCHLOR	<9.93	ug/L	EPA 608.2	9.93	8/22/00	JK
TOXAPHENE	<1.97	ug/L	EPA 608	1.97	8/22/00	JK
2,4-D	<0.66	ug/L	EPA 615	0.66	8/25/00	JS
2,4,5-TP	<0.23	ug/L	EPA 615	0.23	8/25/00	JS

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



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CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 10/10/00
 OUC Log #: 0008-023-3

Sample Description: SEC - PROD. WELLFIELD PIPELINE

Label: PROD. PIPELINE
 Date Sampled: 8/10/00
 Time Sampled: 11:10a
 Date Received: 8/10/00
 Collected by: Brian Clark

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		10/9/00	JG
ALUMINUM	0.069	mg/L	SM3113B	0.003		10/3/00	JG
ARSENIC	BDL	mg/L	SM3113B	0.001		8/14/00	JG
BARIUM	0.18	mg/L	EPA6010	0.001		10/5/00	JG
CALCIUM	47.9	mg/L	SM3111B	0.1		10/10/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		10/7/00	JG
COBALT	BDL	mg/L	SM3113B	0.005		10/11/00	JG
CHROMIUM	BDL	mg/L	SM3113B	0.002		10/5/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		10/3/00	JG
IRON	0.69	mg/L	SM3111B	0.02		10/3/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		8/18/00	JG
POTASSIUM	1.43	mg/L	SM3111B	0.02		10/6/00	JG
MAGNESIUM	9.59	mg/L	SM3111B	0.02		10/10/00	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		10/5/00	JG
MOLYBDENUM	0.006	mg/L	SM3113B	0.002		10/5/00	
SODIUM	11.2	mg/L	200.7	0.5		8/17/00	KS
NICKEL	BDL	mg/L	SM3113B	0.001		8/17/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		10/6/00	JG
SELENIUM	0.001	mg/L	SM3113B	0.001		8/16/00	JG
VANADIUM							
ZINC	0.02	mg/L	SM3111B	0.01		10/5/00	JG

COLOR	6	CU	SM2120B	0	8/11/00	DJ
HARDNESS	165	mg/L	SM2340C	1	8/11/00	DJ
SPECIFIC COND.	378	us	SM2510B	0		
TDS	225	mg/L	SM2540C	1	8/12/00	JS
ALKALINITY	150	pH units	SM4500HB	0	8/11/00	DJ
CHLORIDE	12.5	mg/L	EPA300.0	0.1	8/11/00	JK
NITRATE	<0.10	mg/L	EPA300.0	0.10	8/11/00	JK
PHOSPHATE TOTAL	0.10	mg/L	EPA365.2	0.05	8/23/00	JG
SULFATE	18.7	mg/L	EPA300.0	0.06	8/11/00	JK
GROSS ALPHA (TOTAL)	6.60	pCi/L	EPA900.0	0+/-2.8	8/19/00	SUB

These results have been reviewed for their precision and accuracy by:

John N. Gray

John N. Gray, Laboratory Manager
Jennifer L. Koschewa, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC - Environmental
Project Name: SEC Quarterly Monitoring Wells
Address: 500 S. Orange Ave.
City, State, Zip: Orlando Fla 32802
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	08-08-00	12:15	Southwest Ditch	✓		3	General, Metals, Gross Alpha	0008-03-1 WQL
							temp Sulfides: 5.8 pH=3.74 °C: 37.18 sp.c: 104994	WQL
	080800	12:25	MW 11	✓		3	General, Metals Gross Alpha	0008-03-2 WQL
							dtw: 5.2 pH=4.16 °C: 25.82 Sulfide = 3.7 sp.c = 20851	WQL
	080800	12:35	MW 11 DUP	✓		3	General, Metals Gross Alpha	0008-03-3 WQL
							dtw: 5.2 pH=4.16 °C: 25.82 Sulfide 3.7 sp.c = 20851	WQL
	080800	13:00	MW 13	✓		3	dtw: 7.8 pH=3.89 °C: 27.03 Sulfides = 3.3 sp.c = 284.6	0008-03-4 WQL
							General, Metals Gross Alpha	WQL
	080800	13:30	MW 2	✓		3	dtw: 9.42 pH=4.09 °C: 27.04 Sulfides = 4.0 sp.c = 718.14	0008-03-5 WQL
							General, Metals Gross Alpha	WQL

1. Relinquished by: <u>Marcia Anderson</u>	Date <u>8/08/00</u>	Time <u>15:45</u>
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by:	Date	Time

Remarks: _____

Received in laboratory by: <u>John R. King</u>	Date <u>8-08-00</u>	Time <u>15:46</u>
---	------------------------	----------------------

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OVC Environmental
Project Name: SEC-Quarterly Monitoring Wells
Address: 500 S. Orange Ave.
City, State, Zip: Orlando, Fla 32802
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	080800	1000	MW 10	✓		3	General, Metals Gross Alpha DTW=10.7 pH=4.13 °C=24.51 sp.c=42.0 Sulfide=2.0	0008-013-6 WQL
	080800	10:35	MW 9	✓		3	GENERAL, METALS Gross Alpha DTW=10.90 pH=4.21 °C=25.95 sp.c=81.7 Sulfide=5.0	0008-013-7 WQL
	080800	11:15	MW 8	✓		3	DTW=11.95 pH=4.32 °C=25.9 sp.c=64 Sulfide 4.8	0008-013-8 WQL
							General, Metals, Gross Alpha	WQL
								WQL

1. Relinquished by: <u>Marlene Anderson</u>	Date <u>080800</u>	Time <u>15:45</u>
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: Bottle No.
1 x 4(1) 500 cc - OVC
Cooler No. 31, 12, 24
Kits prepared by gdl 8-01-00

Received in laboratory by: <u>[Signature]</u>	Date <u>8-6-00</u>	Time <u>15:46</u>
--	-----------------------	----------------------

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC-ENV
Project Name: Stanton Mont. Wells
Address: _____
City, State, Zip: _____
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	080800	13:55	MW6	✓		3	General, Metals, Gross Alpha	0008-43-9 WQL
							dtw = 7.36 pH = 4.49 TC = 26.94 Sulfides = >2.0 Sp. C = 655	WQL
								WQL
								WQL
								WQL
								WQL
								WQL
								WQL
								WQL
								WQL
								WQL

1. Relinquished by: <u>Marcie Anderson</u>	Date <u>080800</u>	Time <u>15:45</u>
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Received in laboratory by: <u>John A. Key</u>	Date <u>8-8-00</u>	Time <u>15:46</u>
--	-----------------------	----------------------

Remarks: Bottle No
1 x 30(L)S@007-OUC
Cooler No 25, 26, 28
Kits prepared by J. 8-01-00

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OVC-ENV
Project Name: SEC-Monitoring Wells
Address: _____
City, State, Zip: _____
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	080900	1240	MW2	✓		3	DTW 5.081 spc 601 μ M °C 26.59 pH 6.46 sulfite 3.0 ppm	0008-017-6 WQL
								WQL
	080900	1310	MW1	✓		3	DTW 8.181 spc 942 μ M °C 26.19 pH 5.90 sulfite 4.0	0008-017-7 WQL
								WQL
								WQL
								WQL
								WQL
								WQL
								WQL
								WQL

1. Relinquished by: <u>Brian Clark</u>	Date: <u>080900</u>	Time: <u>1610</u>
2. Received by:	Date:	Time:

5. Relinquished by:	Date:	Time:
6. Received by:	Date:	Time:

3. Relinquished by:	Date:	Time:
Received by:	Date:	Time:

Received in laboratory by: <u>[Signature]</u>	Date: <u>8-09-00</u>	Time: <u>16:20</u>
---	----------------------	--------------------

Remarks: All wells purged 5 volumes
1X 10 IL Glass
Cooler No. 38
Kit prepared by [Signature]
[Signature]

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC - ENV
Project Name: SEC - Monitoring Wells
Address: _____
City, State, Zip: _____
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	080900	1030	MW 7	✓		3	SP. COND = 51 μ Mhos, pH = 4.46 DTW = 3.1' °C = 24.92	0008-017-1 WQL
			MW 7B				sulfate = 3.2 ppm	WQL
	080900	1100	OW 4	✓		3	DTW = 5.53' SP COND 163 μ Mhos °C = 25.15 pH 4.71	0008-017-2 WQL
							sulfate = 12 ppm	WQL
	080900	1130	MW 4	✓		3	DTW = 5.45' SC = 53 μ Mhos °C 25.00 pH 4.54	0008-017-3 WQL
							sulfate 7.6 ppm	WQL
	080900	1205	MW 3	✓		3	DTW = 5.25' SP 135 μ Mhos °C 25.54 pH 5.24	0008-017-4 WQL
							sulfate 2.8 ppm	WQL
		1210	MW 3 dupe	✓		3	DTW 5.25' SP 135 μ M °C 25.54 pH 5.24	0008-017-5 WQL
							sulfate 2.8 ppm	WQL

1. Relinquished by: <u>Brian Clark</u>	Date 080900	Time 1610
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by:	Date	Time

Remarks: 5 volumes purged from each well

Received in laboratory by: <u>[Signature]</u>	Date 8-9-00	Time 1620
--	----------------	--------------

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OVC-ENV
Project Name: SEC-Monitoring Wells
Address: _____
City, State, Zip: _____
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	081000	1120	MW 14	✓		3	DTW 4.5' pH 5.89 °C 26.94 spc 734 μ M WQL sulfite 6.0 ppm	0008-023-1
	purged dry (3 vols) 1020							WQL
	081000	1045	MW 5	✓		3	DTW 2.34' pH 4.17 °C 25.94 spc 449 μ M WQL sulfite = 7.0 ppm	0008-023-2
	081000	1110	Production Well					WQL
								WQL
	081000	1110	Production Well	✓		3	DTW-NA pH 7.14 °C 25.24 spc 379 μ M WQL sulfite 7.0 ppm	0008-023-3
								WQL
	081000	1200	Make up supply pond	✓		12	pH 7.01 spc 652 μ M °C 30.04	0008-023-4
								WQL
								WQL

1. Relinquished by: <u>Brian Clark</u>	Date: <u>081000</u>	Time: <u>1600</u>
2. Received by:	Date:	Time:

5. Relinquished by:	Date:	Time:
6. Received by:	Date:	Time:

3. Relinquished by:	Date:	Time:
Received by:	Date:	Time:

Remarks: _____

Received in laboratory by: <u>John G. [Signature]</u>	Date: <u>8-10-00</u>	Time: <u>16:05</u>
---	----------------------	--------------------

September 13, 2000

CLIENT: OUC WATER QUALITY LAB
 3800 GARDENIA AVE
 ORLANDO, FL 32839

ATTN: JOHN GRAY

Order Number: 5568
 Project:
 Sample ID: SEC PRODUCTION WELL
 Lab Number: 00-F15739
 Date Collected: 08/10/00
 Time Collected: 11:10
 Date Received: 08/11/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Sodium, total	11.20		mg/l	0.5000	1	8/17/00	18:00	KS	200.7	8524
GENERAL PARAMETERS										
Gross Alpha	6.60	+/- 1.3	pCi/L	1.70		8/19/00		subcon	900.0	8879

Radiochemistry analysis performed by FL Lab I.D. #83141

Approved By: 

Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com

COPY



CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0006-001-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-1
 Date Sampled: 6/1/00
 Time Sampled: 9:45
 Date Received: 6/1/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.43	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	0.003	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.317	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	151	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	27.0	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	3.01	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	8.75	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	0.05	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	27.5	mg/L	EPA6010	0.2		6/12/00	DM
NICKEL	0.008	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.009	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.12	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	6/1/00	JG
SPECIFIC COND.	924	us	SM2510B	0	6/1/00	BC & JM
TDS	542	mg/L	SM2540C	1	6/5/00	JS
pH	6.07	pH units	SM4500HB	0	6/1/00	BC & JM
CHLORIDE	99.8	mg/L	EPA300.0	0.1	6/2/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/2/00	JW
PHOSPHATE TOTAL	0.47	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	BDL	mg/L	EPA300.0	0.06	6/2/00	JW
SULFITE	4.8	mg/L	SM4500SO3	1.0	6/1/00	BC & JM
TURBIDITY	50	NTU	EPA180.1	0.01	6/1/00	JG
GROSS ALPHA (TOTAL)	4.4	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



The Reliable One®

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0006-001-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

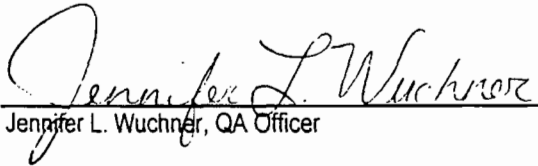
Label: MW-2
 Date Sampled: 6/1/00
 Time Sampled: 10:25
 Date Received: 6/1/00
 Collected by: BC & JM

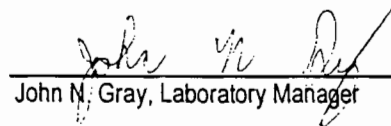
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	1.4	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.269	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	50.8	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	4.0	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	3.89	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	6.25	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	22.4	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.002	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.09	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	6/1/00	JG
SPECIFIC COND.	472	us	SM2510B	0	6/1/00	BC & JM
TDS	266	mg/L	SM2540C	1	6/5/00	JS
pH	5.88	pH units	SM4500HB	0	6/1/00	BC & JM
CHLORIDE	30.6	mg/L	EPA300.0	0.1	6/2/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/2/00	JW
PHOSPHATE TOTAL	0.58	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	52.0	mg/L	EPA300.0	0.06	6/2/00	JW
SULFITE	5.0	mg/L	SM4500SO3	1.0	6/1/00	BC & JM
TURBIDITY	20	NTU	EPA180.1	0.01	6/1/00	JG
GROSS ALPHA (TOTAL)	0.5	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	0.013	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-8

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-3
 Date Sampled: 5/31/00
 Time Sampled: 12:20
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.16	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.057	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	15.8	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.66	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	1.11	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	2.00	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	7.6	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	<0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	0.09	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	8.0	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	8.0	CU	SM2120B	0	6/1/00	JS
SPECIFIC COND.	148	us	SM2510B	0	5/31/00	BC & JM
TDS	77	mg/L	SM2540C	1	5/31/00	JS
pH	5.51	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	14.0	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	1.97	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	3.6	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	1.60	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	0.8	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-9

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-4
 Date Sampled: 5/31/00
 Time Sampled: 1:00
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.21	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.031	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	0.92	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.02	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.73	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	0.98	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	1.00	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	0.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	6.5	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	0.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.002	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.09	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	6.0	CU	SM2120B	0	6/1/00	JS
SPECIFIC COND.	5.3	us	SM2510B	0	5/31/00	BC & JM
TDS	28	mg/L	SM2540C	1	5/31/00	JS
pH	4.64	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	9.88	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	2.36	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	3.2	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	1.50	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	1.1	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<0.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-6

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-5
 Date Sampled: 5/31/00
 Time Sampled: 11:00
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	1.4	mg/L	EPA6010	0.04		6/13/00	DM
SENI	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.091	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	31.8	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	2.06	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	8.31	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	6.56	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	21.4	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.09	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	40	CU	SM2120B	0	6/1/00	JS
SPECIFIC COND.	456	us	SM2510B	0	5/31/00	BC & JM
TDS	279	mg/L	SM2540C	1	5/31/00	JS
pH	4.39	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	13.0	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	140	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	5.0	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	15.0	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	9.6	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-6
 Date Sampled: 5/31/00
 Time Sampled: 10:30
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.35	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.02	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	1.46	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.33	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	0.70	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	0.87	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	6.5	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.09	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	12	CU	SM2120B	0	6/1/00	JS
SPECIFIC COND.	63	us	SM2510B	0	5/31/00	BC & JM
TDS	24	mg/L	SM2540C	1	5/31/00	JS
pH	4.59	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	12.7	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	0.124	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	>2.0	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	1.30	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	1.4	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-7
 Date Sampled: 5/31/00
 Time Sampled: 10:00
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.67	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.03	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	2.51	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.33	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	0.96	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	0.78	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	4.1	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.09	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	18	CU	SM2120B	0	6/1/00	JS
SPECIFIC COND.	58	us	SM2510B	0	5/31/00	BC & JM
TDS	32	mg/L	SM2540C	1	5/31/00	JS
pH	4.93	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	8.38	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	0.16	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	1.87	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	2.6	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	6.40	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	1.5	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-063-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-8
 Date Sampled: 5/30/00
 Time Sampled: 1:15
 Date Received: 5/30/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.42	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.017	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	0.42	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.66	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	0.54	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	1.49	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	6.8	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.09	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	12	CU	SM2120B	0	5/31/00	JS
SPECIFIC COND.	71	us	SM2510B	0	5/30/00	BC & JM
TDS	26	mg/L	SM2540C	1	5/31/00	JS
pH	4.50	pH units	SM4500HB	0	5/30/00	BC & JM
CHLORIDE	16.1	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	1.42	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	3.6	mg/L	SM4500SO3	1.0	5/30/00	BC & JM
TURBIDITY	0.76	NTU	EPA180.1	0.01	5/31/00	JS
GROSS ALPHA (TOTAL)	1.1	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-063-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-9
 Date Sampled: 5/30/00
 Time Sampled: 12:50
 Date Received: 5/30/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.29	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIIUM	0.011	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	0.30	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.41	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	0.62	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	1.09	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	5.2	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.10	mg/L	SM3111B	0.01		6/14/00	JG

COLOR	16	CU	SM2120B	0	5/31/00	JS
SPECIFIC COND.	51	us	SM2510B	0	5/30/00	BC & JM
TDS	17	mg/L	SM2540C	1	5/31/00	JS
pH	4.60	pH units	SM4500HB	0	5/30/00	BC & JM
CHLORIDE	8.74	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	2.27	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	2.3	mg/L	SM4500SO3	1.0	5/30/00	BC & JM
TURBIDITY	0.98	NTU	EPA180.1	0.01	5/31/00	JS
GROSS ALPHA (TOTAL)	1.5	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-063-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-10
 Date Sampled: 5/30/00
 Time Sampled: 12:15
 Date Received: 5/30/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.21	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.009	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	0.18	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.40	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	0.49	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	0.87	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	4.2	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.10	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	10	CU	SM2120B	0	5/31/00	JS
SPECIFIC COND.	42	us	SM2510B	0	5/30/00	BC & JM
TDS	19	mg/L	SM2540C	1	5/31/00	JS
pH	4.62	pH units	SM4500HB	0	5/30/00	BC & JM
CHLORIDE	5.68	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	2.91	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	<2.0	mg/L	SM4500SO3	1.0	5/30/00	BC & JM
TURBIDITY	0.50	NTU	EPA180.1	0.01	5/31/00	JS
GROSS ALPHA (TOTAL)	1.6	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-063-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-11
 Date Sampled: 5/30/00
 Time Sampled: 11:00
 Date Received: 5/30/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	6.2	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.999	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	162	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	4.90	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	37.1	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	9.56	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	116	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.11	mg/L	SM3111B	0.01		6/14/00	JG

COLOR	18	CU	SM2120B	0	5/31/00	JS
SPECIFIC COND.	1911	us	SM2510B	0	5/30/00	BC & JM
TDS	1007	mg/L	SM2540C	1	5/31/00	JS
pH	4.31	pH units	SM4500HB	0	5/30/00	BC & JM
CHLORIDE	571	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	0.08	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	85.3	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	2.4	mg/L	SM4500SO3	1.0	5/30/00	BC & JM
TURBIDITY	1.65	NTU	EPA180.1	0.01	5/31/00	JS
GROSS ALPHA (TOTAL)	13.2	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

John N. Gray, Laboratory Manager

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PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-12
 Date Sampled: 5/31/00
 Time Sampled: 9:30
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	25	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.076	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	271	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	6.80	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	47.9	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	19.4	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	88.2	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.11	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	20	CU	SM2120B	0	6/1/00	JS
SPECIFIC COND.	2030	us	SM2510B	0	5/31/00	BC & JM
TDS	1424	mg/L	SM2540C	1	5/31/00	JS
pH	3.97	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	249	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	811	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	2.5	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	2.05	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	15.2	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	0.01	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-13
 Date Sampled: 5/31/00
 Time Sampled: 9:15
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	5.8	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.089	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	19.6	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.001	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	1.69	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	3.21	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	6.04	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	18.3	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.09	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	30	CU	SM2120B	0	6/1/00	JS
SPECIFIC COND.	405	us	SM2510B	0	5/31/00	BC & JM
TDS	214	mg/L	SM2540C	1	5/31/00	JS
pH	3.91	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	37.8	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	133	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	3.2	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	0.55	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	14.5	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0006-001-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-14
 Date Sampled: 6/1/00
 Time Sampled: 12:15
 Date Received: 6/1/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.33	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.154	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	136	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	0.005	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.72	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	12.3	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	8.22	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	13.7	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.002	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.13	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	16	CU	SM2120B	0	6/1/00	JG
SPECIFIC COND.	732	us	SM2510B	0	6/1/00	BC & JM
TDS	489	mg/L	SM2540C	1	6/5/00	JS
pH	6.15	pH units	SM4500HB	0	6/1/00	BC & JM
CHLORIDE	28.5	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	50.8	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	2.8	mg/L	SM4500SO3	1.0	6/1/00	BC & JM
TURBIDITY	6.5	NTU	EPA180.1	0.01	6/1/00	JG
GROSS ALPHA (TOTAL)	3.2	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	>.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0005-065-7

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: OW4
 Date Sampled: 5/31/00
 Time Sampled: 12:00
 Date Received: 5/31/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.11	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.104	mg/L	EPA6010	0.001		6/13/00	DM
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		6/19/00	JG
CALCIUM	0.92	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	1.82	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	1.92	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	1.93	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	9.7	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	DM
LEAD	0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
ZINC	0.11	mg/L	SM3111B	0.01		6/14/00	JG

PAGE 2 OF 2

COLOR	12	CU	SM2120B	0	6/1/00	JG
SPECIFIC COND.	159	us	SM2510B	0	5/31/00	BC & JM
TDS	87	mg/L	SM2540C	1	5/31/00	JS
pH	4.87	pH units	SM4500HB	0	5/31/00	BC & JM
CHLORIDE	10.3	mg/L	EPA300.0	0.1	6/1/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/1/00	JW
PHOSPHATE TOTAL	0.09	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	42.7	mg/L	EPA300.0	0.06	6/1/00	JW
SULFITE	8.0	mg/L	SM4500SO3	1.0	5/31/00	BC & JM
TURBIDITY	4.25	NTU	EPA180.1	0.01	6/1/00	JS
GROSS ALPHA (TOTAL)	1	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD
VANADIUM	<.005	mg/L	EPA6010	0.005	6/13/00	DM

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0006-001-3

Sample Description: SEC - PROD. WELLFIELD PIPELINE

Label: PROD. PIPELINE
 Date Sampled: 6/1/00
 Time Sampled: 10:45
 Date Received: 6/1/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ALUMINUM	0.04	mg/L	EPA6010	0.04		6/13/00	DM
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	0.026	mg/L	EPA6010	0.001		6/13/00	DM
CALCIUM	50.8	mg/L	SM3111B	0.1		7/3/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
COBALT	RESULTS ARE FORTHCOMING						
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		6/14/00	JG
IRON	0.07]	mg/L	SM3111B	0.02		6/14/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
POTASSIUM	1.67	mg/L	SM3111B	0.02		7/3/00	JG
MAGNESIUM	11.7	mg/L	SM3111B	0.02		7/3/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		6/14/00	JG
MOLYBDENUM	<.005	mg/L	EPA6010	0.005		6/13/00	DM
SODIUM	12.6	mg/L	EPA6010	0.2		6/13/00	DM
NICKEL	<.005	mg/L	EPA6010	0.005		6/13/00	JG
LEAD	<0.001	mg/L	SM3113B	0.001		6/14/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
VANADIUM	<.005	mg/L	EPA6010	0.005		6/23/00	DM
ZINC	0.11	mg/L	SM3111B	0.01		6/14/00	JG

COLOR	NC (1)	CU	SM2120B	0	6/1/00	JG
HARDNESS	176	mg/L	SM2340C	1	6/6/00	JS
SPECIFIC COND.	379	us	SM2510B	0	6/1/00	BC & JM
TDS	225	mg/L	SM2540C	1	6/5/00	JS
ALKALINITY	7.46	pH units	SM4500HB	0	6/1/00	BC & JM
CHLORIDE	12.9	mg/L	EPA300.0	0.1	6/2/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	6/2/00	JW
PHOSPHATE TOTAL	0.05	mg/L	EPA300.0	0.05	6/13/00	JG
SULFATE	25.0	mg/L	EPA300.0	0.06	6/2/00	JW
SULFITE	9.0	mg/L	SM4500SO3	1.0	6/1/00	BC & JM
GROSS ALPHA (TOTAL)	0.7	pCi/L	EPA900.0	0+/-2.8	6/7/00	CD

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 7/10/00
 OUC Log #: 0006-027-1

Sample Description: SEC - MAKEUP WATER SUPPLY POND

Label: SUPPLY POND
 Date Sampled: 6/13/00
 Time Sampled: 2:00
 Date Received: 6/14/00
 Collected by: BC & JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		6/15/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		6/20/00	JG
BARIUM	<0.001	mg/L	SM3113B	0.001		6/23/00	DM
CADMIUM	<0.001	mg/L	SM3113B	0.0002		6/15/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		6/17/00	JG
MERCURY	<0.0005	mg/L	245.1	0.0005		6/16/00	JG
MAGNESIUM	1.04	mg/L	SM3111B	0.02		7/3/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		7/7/00	JG
SELENIUM	<0.001	mg/L	SM3113B	0.001		6/21/00	JG
FLUORIDE	0.226	mg/L	EPA300.0	0.1		6/14/00	JW
NITRATE	1.06	mg/L	EPA300.0	0.10		6/14/00	JW
GROSS ALPHA (TOTAL)	2.3	pCi/L	EPA900.0	0+/-2.8		6/20/00	CR
RADIUM (226+228)		pCi/L					
BENZENE	BDL	ug/L	EPA 624	0.23		6/16/00	JES
Bis(2-CHLOROETHYL)ETHER)	BDL	ug/L	EPA 625	1.25	6/15/00	7/5/00	JES
CHLOROFORM	52.2	ug/L	EPA 624	1.10		6/16/00	JES
1,2 DICHLOROETHANE	BDL	ug/L	EPA 624	0.93		6/16/00	JES
1,1-DICHLOROETHENE	BDL	ug/L	EPA 624	0.23		6/16/00	JES
DICHLOROMETHANE	BDL	ug/L	EPA 624	1.30		6/16/00	JES
1,2 DIPHENYLHYDRAZINE	BDL	ug/L	EPA 625	1.00	6/15/00	7/5/00	JES
TETRACHLOROETHYLENE	BDL	ug/L	EPA 624	0.71		6/16/00	JES
1,1,1-TRICHLOROETHANE	BDL	ug/L	EPA 624	1.0		6/16/00	JES

TRICHLOROETHYLENE	BDL	ug/L	EPA 624	0.81		6/16/00	JES
VINYL CHLORIDE	BDL	ug/L	EPA 624	0.98		6/16/00	JES
CHLORDANE	BDL	ug/L	EPA 608	0.49	6/21/00	7/5/00	JW
METHOXYCHLOR	BDL	ug/L	EPA 608.2	9.93	6/21/00	7/5/00	JW
TOXAPHENE	BDL	ug/L	EPA 608	1.97	6/21/00	7/5/00	JW
2,4-D	BDL	ug/L	EPA 615	0.66	6/21/00	6/29/00	JES
2,4,5-TP	BDL	ug/L	EPA 615	0.23	6/21/00	6/29/00	JES

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner, QA Officer

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

ORLANDO UTILITIES COMMISSION WATER CHAIN OF CUSTODY REPORT CITY LAB

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: SEC
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers: Brian Clark
 Jenn Macklary

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	06/01/00	09:15	MW1	✓		3	Gross alpha, Metals, General DTW 10.67 ft Sulfate 4.8 ppm pH 6.07 Temp 25.47 Sp. cond 924.3	0006-001-1 WQL
	06/01/00	10:25	MW 2	✓		3	General, Metals, Gross alpha DTW 6.08 ft Sulfate 5.0 ppm pH 5.88 Temp 26.02 Sp. conductivity 492.4	-001-2 WQL
	06/01/00	10:45	PSW = Production Supply Well	✓		3	Gross alpha, Metals, General Sulfate 9.0 ppm pH 7.46 Temp 27.28 Sp. cond. 379.1	-001-3 WQL
	06/01/00	12:15	MW 14	✓		3	Gross alpha, metals general depth to water 6.2 ft Sulfate 2.8 ppm pH 6.15 Temp 26.40 Sp. cond: 732.2	-001-4 WQL
			*pugged 2 volumes from MW 14 well went dry					
	06/01/00	11:30	make up water supply pond	N/A		N/A	equipment failure, not able to sample will return later in month	WQL
								WQL

Relinquished by: Jenn Macklary	Date 06/01/00	Time 14:55
Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. - 50007-00C
 COOLER NO. - 21, 22, 43
 15 x 1L bottles
 Kit prepared by g.j. 5/29/00

Received in laboratory by: John W. Long	Date 06-1-00	Time 14:55
--	-----------------	---------------

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: _____
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
SW Ditch NREC PTW 11	053000	1045	Dry	✓		2		0005-063-5 WQL
MW 11	053000	1100		✓		3	Temp. 23.85 Specific Cond. 191µm pH 4.31	0005-063-1 WQL
MW 10	053000	1215					Sulfate 2.4 ppm General, Gross Alpha, Metals Well level 7.46 ft to water	WQL
MW 10	053000	1215		✓		3	General, Gross Alpha, Metals DTW 7.70 ft Sulfate < 2.0 ppm	0005-063-2 WQL
							Temp 24.58 specific cond. 41.7µm pH 7.62	0005-063-2 WQL
MW 9	053000	1250				3	DTW 9.07 ft Gross Alpha, Metals, General Sulfate 2.3 ppm	0005-063-3 WQL
							Temp 24.17 sp. conductivity 50.5µm pH 4.60	WQL 3
MW 8	053000	1315		✓		3	DTW 8.19 ft Gross Alpha, General, Metals Sulfate 3.6 ppm	0005-064-4 WQL
							Temp 25.24 sp. conductivity 70.7µm pH 4.50	WQL
								WQL

1. Relinquished by: <u>Jennifer Matlag</u>	Date <u>053000</u>	Time <u>1430</u>
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Received in laboratory by: <u>Rob Buller</u>	Date <u>5-30-00</u>	Time <u>2:19 p</u>
---	------------------------	-----------------------

Remarks: BOTTLE LOT NO. - 50007-0VL
COOLER NO. - #1, 4, 5,
15 x 1L bottles
Kit prepared by g.?
5/24/00.

ORLANDO UTILITIES COMMISSION WATER
CHAIN OF CUSTODY REPORT

LITY LAB

BEST AVAILABLE COPY

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: SEC
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers: Brian Clark
Jen Mackery

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	053100	1100	MW5	✓		3	Gross Alpha, General, metals Sulfite 500 ppm DTW 8.94 ft	0005-065-6 WQL
							pH 4.39 Temp. 26.41 Sp. Conductivity 450.3 um	WQL
	053100	1200	DW4	✓		3	Gross alpha, Metals, general Sulfite 8.0 ppm DTW 7.74 ft	0005-065-7 WQL
							pH 4.47 Temp 26.41 Sp. Conductivity 158.5 um	WQL
	053100	1200	MW3	✓		3	Gross alpha, General, metal DTW 6.85 ft Sulfite 2.6 ppm	0005-065-8 WQL
							Temp. 26.37 pH 5.01 Sp. Conductivity 147.6 um	WQL
	053100	1300	MW4	✓		3	Gross Alpha, Metals, General DTW 6.85 ft Sulfite 3.2 ppm	0005-065-9 WQL
							Temp 30.43 pH 4.64 Sp. Cond. 52.6 um	WQL
								WQL
								WQL

Relinquished by: <u>Brian Clark</u>	Date 5-31-00	Time 1410
Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Received in laboratory by: <u>John P. Gray</u>	Date 5-31-00	Time 14:10
---	-----------------	---------------

Remarks: BOTTLE LOT NO. - SQ007-0VC
COOLER NO. - 6, 7, 9
15x1L bottles
Kit prepared by g. 1
5/29/00

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUc ENVIRONMENTAL
 Project Name: SEC
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers: Brian Clark
Jennifer Mackay

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
053100	0915		MW 13	✓		3	Gross Alpha, General, Metals pH 3.91 Temp 24.13	0005-065-1 WQL
							Sp. Conductivity 404.6 um sulfite 3.2 ppm DTW 9.58	WQL
053100	0930		MW 12	✓		3	DTW 11.75 FT Gross Alpha, Metals, General Sulfite 2.5 ppm Temp 24.40 pH 3.97 Sp. Conductivity 2030 um	0005-065-2 WQL
053100	1000		MW 7	✓		3	DTW 5.38 Gross Alpha, General, Metals Sulfite 2.6 ppm pH 4.53 Sp. Conductivity 58.3 um Temp 24.19	0005-065-3 WQL
053100	1030		MW 6	✓		3	Gross Alpha, Metals, General DTW 9.58 Temp 25.21 pH 4.59 Sp. Conductivity 63.2 um Sulfite 2.0	0005-065-4 WQL
053100	1040		MW 6 DUP	✓		3	Gross Alpha, Metals, General DTW 9.58 Temp 25.23 pH 4.59 Sp. Conductivity 63.2 um Sulfite 2.0	0005-065-5 WQL

Relinquished by: <u>Brian Clark</u>	Date 3-31-00	Time 11:00
Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

Relinquished by:	Date	Time
Received by:	Date	Time

Received in laboratory by: <u>John V. Dwyer</u>	Date 5-31-00	Time 14:10
--	-----------------	---------------

Remarks: BOTTLE LOT NO. - 50007- OUC
COOLER NO. - 10, 12, 14
15 x 1L bottles
Kit prepared by J. Sullivan

7/10/2000 12:40 4072772

RESULTS BY SAMPLE

Reported: July 06, 2000 11:37 AM

Page 1 of 1 Pages

SENT John Gray
 TO: Orlando Utilities Commission
 Water Quality Laboratory
 3800 Gardenia Ave.
 Orlando, FL 32839
 (407)244-8779 FAX 244-8780

PBS&J Project Manager: T. French

This is to certify that the following samples were analyzed using good laboratory practices to show the following results:

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0006-511-1	0006-027-1	06/20/00	MAKEUP SUPPLY POND	06/13/00 14:00:00			
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Determination of Radium 226 in Waters			EPA 903.1			06/21/00	CD
radium 226	.2		pCi/l				
radium 226 counting error	.1		pCi/l				
Determination of Radium 228 in Water			EPA RA-05			06/30/00	CD
radium 228	.3		pCi/l				
radium 228 counting error	.3		pCi/l				
Metals in Waters by ICAP sodium	67.6		EPA 6010		06/22/00	06/23/00	DM
			mg/l	.2			
Gross Alpha Radioactivity in Water			EPA 900.0			06/20/00	CD
gross alpha radiation	2.3		pCi/l				
gross alpha counting error	1.7		pCi/l				



Chemical Testing
Environmental Toxicology
Field Services

Certificate of Analysis

REPORTED DATE: July 06, 2000

Page: 1 of 1 Pages

**To: John Gray
Orlando Utilities Commission
Water Quality Laboratory
3800 Gardenia Ave.
Orlando, FL 32839
Phone: (407)244-8779 Fax: 244-8780
Your Project: SEC**

**MAKEUP SUPPLY POND
PBS&J Login Number: 0006-511**

**RECEIVED DATE: 20-JUN-00
PO#:**

PBSJ Sample No.	Client Sample ID	Collection date/time	
0008-511-01	0008-027-1	08/13/00	14:00:00

Thank you for using PBS&J Analytical Services

T. French

PBS&J Project Manager



ANALYTICAL SERVICES

6635 East Colonial Drive
Orlando, FL 32807
Phone: (407)277-4443 FAX: (407)382-8794

BEST AVAILABLE COPY

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 9056

PAGE 14

PBSJ ENV LAB

4072772018

40727721

12:40

07/10/2000

CLIENT NAME Orlando Utilities Comm		PO NUMBER		MATRIX		GENERALS	METAL Na	NUTRIENTS	VDA	SEMIVOLATILE	CYANIDE	PESTICIDE	BACTERIA	GREASE AND OIL	OTHER	OTHER GROSS ALPHA Rad. Wt. Total 226 ± 28	<input checked="" type="checkbox"/> STANDARD TAT	<input type="checkbox"/> EXPEDITED TAT	* SUBJECT TO RUSH FEES	REPORT DUE DATE: _____									
CLIENT ADDRESS P.O. Box 3193		CLIENT PROJECT MANAGER John Gray		AQUEOUS													SOLID	AIR	OTL	REMARKS:									
CITY, STATE, ZIP Orlando FL 32802		PROJECT NUMBER 21-000 53/		GLASS (G) / COMPOSITE (C)																									
SAMPLER(S) NAME(S)		PROJECT NAME SEC-Monitoring																											
STATION NO.	SAMPLING		STATION/SITE IDENTIFICATION	GLASS (G) / COMPOSITE (C)	AQUEOUS	SOLID	AIR	OTL	GENERALS	METAL	NUTRIENTS	VDA	SEMIVOLATILE	CYANIDE	PESTICIDE	BACTERIA	GREASE AND OIL	OTHER	OTHER GROSS ALPHA	REMARKS									
	DATE	TIME																			NUMBER OF SAMPLE CONTAINERS SUBMITTED	LAB SAMPLE I.D.							
	4/13/00	1400	0006-027-1 Make Up Water Supply Pond							V										V	0006-511-1								

1. RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-20-00	TIME 11:36 AM	3. RELINQUISHED BY: (SIGNATURE)	DATE	TIME	5. RELINQUISHED BY: (SIGNATURE)	DATE	TIME
2. RECEIVED BY: (SIGNATURE)	DATE	TIME	4. RECEIVED BY: (SIGNATURE)	DATE	TIME	6. RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY MARKS		FOR LABORATORY USE ONLY		CONTAINERS INTACT?		CUSTOMER SEALS INTACT?		SAMPLE CONTAINERS PREPARED BY:		DATE	TIME
<i>[Signature]</i>		DATE 4/20/00	TIME 11:36	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<i>[Signature]</i>			
SAMPLE CONTAINERS CHECKED BY:										DATE	TIME

Orlando Utilities Commission
Water Quality Lab
 3800 Gardenia Avenue
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 407.244.8779
 Fax: 407.244.8780
 Website: www.ouc.com



The Reliable One[®]

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/10/00
 OUC Log #: 9911-013-17

Sample Description: EQIP. BLANK

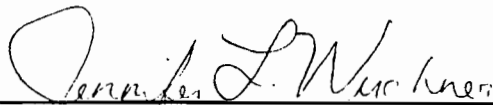
Label: EQIP BLANK
 Date Sampled: 11/29/99
 Time Sampled: 13:30
 Date Received: 11/30/99
 Collected by: M.P.

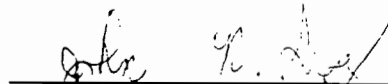
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINIUM	<0.003	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.002	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	0.625	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	<0.01	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	0.1	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	0.07	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	BDL	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	NC	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	3	us	SM2510B	0	11/29/99	MP
TDS	11	mg/L	SM2540C	1	12/1/99	JES
pH	7.04	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	0.39	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	0.517	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	<1.0	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.03	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-032-1

Label: MW1
 Date Sampled: 3/20/00
 Time Sampled: 11:00
 Date Received: 3/20/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	1.0	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	0.006	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.438	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	141.8	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	37.3	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	2.31	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	8.36	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.010	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.006	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	>30	CU	SM2120B	0		3/21/00	JG
SPECIFIC COND.	922	us	SM2510B	0		3/20/00	JM
TDS	529	mg/L	SM2540C	1		3/24/00	JS
pH	5.8	pH units	SM4500HB	0		3/20/00	JM
CHLORIDE	98.0	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.61	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	0.117	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	3.2	mg/L	SM4500SO3	1.0		3/20/00	JM
TURBIDITY	30	NTU	EPA180.1	0.01		3/20/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-032-2

Label: MW-2
 Date Sampled: 3/20/00
 Time Sampled: 11:50
 Date Received: 3/20/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	3.42	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	0.003	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.36	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	58.2	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	0.003	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	13.4	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	3.83	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	7.00	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.002	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.005	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	>30	CU	SM2120B	0		3/21/00	JG
SPECIFIC COND.	469	us	SM2510B	0		3/20/00	JM
TDS	273	mg/L	SM2540C	1		3/24/00	JS
pH	5.79	pH units	SM4500HB	0		3/20/00	JM
CHLORIDE	23.5	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.045	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.50	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	41.7	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	3.2	mg/L	SM4500SO3	1.0		3/20/00	JM
TURBIDITY	14	NTU	EPA180.1	0.01		3/20/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-032-3

Label: MW-3
 Date Sampled: 3/20/00
 Time Sampled: 12:15
 Date Received: 3/20/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.21	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.072	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	16.6	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	0.63	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	1.11	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	2.19	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	18	CU	SM2120B	0		3/21/00	JG
SPECIFIC COND.	145	us	SM2510B	0		3/20/00	JM
TDS	90	mg/L	SM2540C	1		3/24/00	JS
pH	5.41	pH units	SM4500HB	0		3/20/00	JM
CHLORIDE	13.8	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.015	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	2.70	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.6	mg/L	SM4500SO3	1.0		3/20/00	JM
TURBIDITY	2.1	NTU	EPA180.1	0.01		3/20/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John A. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-032-4

Label: MW-4
 Date Sampled: 3/20/00
 Time Sampled: 12:45
 Date Received: 3/20/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.46	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.056	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	1.81	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	1.18	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	1.14	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	1.24	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.002	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	6	CU	SM2120B	0		3/21/00	JG
SPECIFIC COND.	54	us	SM2510B	0		3/20/00	JM
TDS	36	mg/L	SM2540C	1		3/24/00	JS
pH	4.4	pH units	SM4500HB	0		3/20/00	JM
CHLORIDE	9.33	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	2.86	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.8	mg/L	SM4500SO3	1.0		3/20/00	JM
TURBIDITY	1.5	NTU	EPA180.1	0.01		3/20/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-032-6

Label: MW5
 Date Sampled: 3/20/00
 Time Sampled: 1:30a
 Date Received: 3/20/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	1.6	mg/L	SM3111B	0.003		4/2/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	1.60	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	34.4	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	2.20	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	11.2	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	6.59	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.02	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	>30	CU	SM2120B	0		3/21/00	JG
SPECIFIC COND.	421	us	SM2510B	0		3/20/00	JM
TDS	272	mg/L	SM2540C	1		3/24/00	JS
pH	4.25	pH units	SM4500HB	0		3/20/00	JM
CHLORIDE	37.8	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.06	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	121	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	6.0	mg/L	SM4500SO3	1.0		3/20/00	JM
TURBIDITY	7.0	NTU	EPA180.1	0.01		3/20/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John A. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-032-5

Label: MW5 DUPE
 Date Sampled: 3/20/00
 Time Sampled: 1:20
 Date Received: 3/20/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	2.40	mg/L	SM3111B	0.003		4/2/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.17	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	36.6	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	0.003	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	4.01	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	12.1	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	7.06	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.02	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	>30	CU	SM2120B	0		3/21/00	JG
SPECIFIC COND.	423	us	SM2510B	0		3/20/00	JM
TDS	278	mg/L	SM2540C	1		3/24/00	JS
pH	4.25	pH units	SM4500HB	0		3/20/00	JM
CHLORIDE	35.3	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	151	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	6.0	mg/L	SM4500SO3	1.0		3/20/00	JM
TURBIDITY	2.5	NTU	EPA180.1	0.01		3/20/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
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 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-1

Label: MW6
 Date Sampled: 3/21/00
 Time Sampled: 1:30
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.44	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.027	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	1.17	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	0.43	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	0.65	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	0.88	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.02	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	12	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	67	us	SM2510B	0		3/21/00	BC
TDS	43	mg/L	SM2540C	1		3/24/00	JS
pH	4.54	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	13.0	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.026	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	0.624	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.0	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	4.0	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John A. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-2

Label: MW-7
 Date Sampled: 3/21/00
 Time Sampled: 2:00
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.35	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.045	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	3.07	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	0.38	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	0.85	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	0.88	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	18	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	59	us	SM2510B	0		3/21/00	BC
TDS	44	mg/L	SM2540C	1		3/24/00	JS
pH	4.95	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	8.75	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.019	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.21	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	1.47	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.0	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	6.1	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
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 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-5

Label: MW8
 Date Sampled: 3/21/00
 Time Sampled: 10:30
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.29	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.024	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	0.85	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	0.86	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	0.31	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	1.01	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.02	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	14	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	66	us	SM2510B	0		3/21/00	BC
TDS	34	mg/L	SM2540C	1		3/24/00	JS
pH	4.51	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	11.1	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.009	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.07	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	1.61	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.0	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	2.0	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John A. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
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 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-7

Label: MW9
 Date Sampled: 3/21/00
 Time Sampled: 11:30
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.28	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.015	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	0.48	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	0.50	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	0.38	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	0.88	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	18	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	45	us	SM2510B	0		3/21/00	BC
TDS	36	mg/L	SM2540C	1		3/24/00	JS
pH	4.58	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	8.12	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.017	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.07	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	2.41	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.4	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	1.5	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John A. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

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Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-12

Label: MW9dup
 Date Sampled: 3/21/00
 Time Sampled: 11:40
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.28	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.014	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	0.48	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	0.49	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	0.32	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	1.03	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	14	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	48	us	SM2510B	0		3/21/00	BC
TDS	34	mg/L	SM2540C	1		3/24/00	JS
pH	4.37	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	7.78	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.010	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	2.32	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.4	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	0.7	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
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 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-6

Label: MW10
 Date Sampled: 3/21/00
 Time Sampled: 10:55
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.27	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.011	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	0.44	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	0.58	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	0.23	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	0.65	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	12	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	42	us	SM2510B	0		3/21/00	BC
TDS	26	mg/L	SM2540C	1		3/24/00	JG
pH	4.51	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	6.37	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	2.44	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	<2.01	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	1.5	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-10

Label: MW11
 Date Sampled: 3/21/00
 Time Sampled: 9:30
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	7.78	mg/L	SM3111B	0.003		4/2/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	1.43	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	148.1	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	5.96	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	42	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	7.47	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.005	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	8	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	1838	us	SM2510B	0		3/21/00	BC
TDS	1086	mg/L	SM2540C	1		3/24/00	JS
pH	4.49	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	492	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.11	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	26.1	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.6	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	3.0	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-13

Label: MW12
 Date Sampled: 3/21/00
 Time Sampled: 12:15
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	21.7	mg/L	SM3111B	0.003		4/2/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.15	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	219.6	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	6.27	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	54.9	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	10.4	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.004	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.003	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	18	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	1999	us	SM2510B	0		3/21/00	BC
TDS	1339	mg/L	SM2540C	1		3/24/00	JS
pH	3.88	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	248	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	<0.05	mg/L	EPA365.2	0.05		3/21/00	BC
SULFATE	609.0	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.6	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	6.0	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
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 500 South Orange Avenue
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 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-14

Label: MW13
 Date Sampled: 3/21/00
 Time Sampled: 12:50
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	6.14	mg/L	SM3111B	0.003		4/2/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.097	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	17.5	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	4.73	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	3.07	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	6.62	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.002	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	>30	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	380	us	SM2510B	0		3/21/00	BC
TDS	199	mg/L	SM2540C	1		3/24/00	JS
pH	3.79	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	46.2	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.09	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	83.0	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	2.3	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	7.0	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

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 500 South Orange Avenue
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 Leonard Mancini

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Page: Page 1 of 1
 Date: 4/7/00
 OUC Log #: 0003-036-3

Label: MW14
 Date Sampled: 3/21/00
 Time Sampled: 2:30
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	1.60	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.17	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	245.4	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	0.005	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	0.02	mg/L	SM3111B	0.01		3/28/00	JG
IRON	15.3	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	11.5	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	5.14	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	0.007	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.002	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.03	mg/L	SM3111B	0.01		3/28/00	JG
COLOR	>30	CU	SM2120B	0		3/23/00	JG
SPECIFIC COND.	758	us	SM2510B	0		3/21/00	BC
TDS	485	mg/L	SM2540C	1		3/24/00	JS
pH	6.21	pH units	SM4500HB	0		3/21/00	BC
CHLORIDE	28.8	mg/L	EPA300.0	0.079		3/21/00	JW
NITRATE	0.029	mg/L	EPA300.0	0.013		3/21/00	JW
PHOSPHATE TOTAL	0.09	mg/L	EPA365.2	0.05		3/21/00	JG
SULFATE	46.5	mg/L	EPA300.0	0.055		3/21/00	JW
SULFITE	4.8	mg/L	SM4500SO3	1.0		3/21/00	BC
TURBIDITY	20	NTU	EPA180.1	0.01		3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John A. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

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 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 4/7/00
 OUC Log #: 0003-036-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: OW-4
 Date Sampled: 3/21/00
 Time Sampled: 9:15
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.98	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.11	mg/L	SM3113B	0.001		4/5/00	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		3/27/00	JG
CALCIUM	11.8	mg/L	SM3111B	0.1		4/6/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	<0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	1.29	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	1.95	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	1.37	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			JG
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
ZINC	0.01	mg/L	SM3111B	0.01		3/28/00	JG

PAGE 2 OF 2

COLOR	4	CU	SM2120B	0	3/23/00	JG
SPECIFIC COND.	152	us	SM2510B	0	3/21/00	BC
TDS	100	mg/L	SM2540C	1	3/24/00	JS
pH	4.90	pH units	SM4500HB	0	3/21/00	BC
CHLORIDE	11.2	mg/L	EPA300.0	0.079	3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013	3/21/00	JW
PHOSPHATE TOTAL	0.07	mg/L	EPA365.2	0.05	3/21/00	JG
SULFATE	32.6	mg/L	EPA300.0	0.055	3/21/00	JW
SULFITE	8.0	mg/L	SM4500SO3	1.0	3/21/00	BC
TURBIDITY	2.5	NTU	EPA180.1	0.01	3/23/00	JG
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
 ADDRESS: Orlando Utilities Commission
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 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 4/7/00
 OUC Log #: 0003-036-9

Sample Description: SEC - PROD. WELLFIELD PIPELINE

Label: PROD. PIPELINE
 Date Sampled: 3/21/00
 Time Sampled: 8:45
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ALUMINUM	0.077	mg/L	SM3111B	0.003		4/10/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.035	mg/L	SM3113B	0.001		4/5/00	JG
CALCIUM	102.1	mg/L	SM3113B	0.0002		3/27/00	JG
CADMIUM	<0.001	mg/L	SM3111B	0.1		4/6/00	JG
COBALT	<0.005	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
COPPER	0.01	mg/L	SM3111B	0.01		3/28/00	JG
IRON	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
POTASSIUM	1.53	mg/L	SM3111B	0.02		4/4/00	JG
MAGNESIUM	10.5	mg/L	SM3111B	0.02		4/5/00	JG
MANGANESE	<0.02	mg/L	SM3111B	0.02		3/28/00	JG
MOLYBDENUM	<0.005	mg/L	SM3113B	0.002		4/5/00	JG
SODIUM		mg/L	EPA6010	0.2			JG
NICKEL	<0.001	mg/L	SM3113B	0.001		4/7/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
VANADIUM	<0.005	mg/L	SM3111B	0.01		3/28/00	JG
ZINC	0.05	mg/L	SM3111B	0.01		3/28/00	JG

COLOR	6	CU	SM2120B	0	3/23/00	JG
HARDNESS	175.5	mg/L	SM2340C	0	4/10/00	JS
SPECIFIC COND.	392	us	SM2510B	1	3/21/00	BC
TDS	231	mg/L	SM4540C	0	3/24/00	JS
ALKALINITY	157	mg/L CaCO3	SM2320B	1.4	4/10/00	JS
CHLORIDE	12.6	mg/L	EPA300.0	0.079	3/21/00	JW
NITRATE	BDL	mg/L	EPA300.0	0.013	3/21/00	JW
PHOSPHATE TOTAL	0.06	mg/L	EPA365.2	0.05	3/21/00	JG
SULFATE	15.6	mg/L	EPA300.0	0.055	3/21/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:

Jennifer L. Wuchner

Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566

John N. Gray

John N. Gray, Laboratory Manager

CERTIFICATE OF ANALYSIS

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 500 South Orange Avenue
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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 4/7/00
 OUC Log #: 0003-036-8

Sample Description: SEC - MAKEUP WATER SUPPLY POND

Label: SUPPLY POND
 Date Sampled: 3/21/00
 Time Sampled: 8:15
 Date Received: 3/21/00
 Collected by: JM

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		3/28/00	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		3/30/00	JG
BARIUM	0.013	mg/L	SM3113B	0.001		4/5/00	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		3/29/00	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		3/29/00	JG
MERCURY	BDL	mg/L	245.1	0.0005		3/26/00	JG
MAGNESIUM	7.32	mg/L	SM3111B	0.02		4/5/00	JG
LEAD	0.002	mg/L	SM3113B	0.001		3/28/00	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		3/30/00	JG
FLUORIDE	0.314	mg/L	EPA300.0	0.1		3/21/00	JW
NITRATE	0.482	mg/L	EPA300.0	0.10		3/21/00	JW
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8			
RADIUM (226+228)		pCi/L					
BENZENE	<1.0	ug/L	EPA 624	1.0		3/23/00	JS
Bis(2-CHLOROETHYL)ETHER	<1.25	ug/L	EPA 625	1.25	3/28/00	4/10/00	JS
CHLOROFORM	85.9	ug/L	EPA 624	1.10		3/23/00	JS
1,2 DICHLOROETHANE	<0.9	ug/L	EPA 624	0.93		3/23/00	JS
1,1-DICHLOROETHENE	<0.8	ug/L	EPA 624	0.80		3/23/00	JS
DICHLOROMETHANE	<1.3	ug/L	EPA 624	1.30		3/23/00	JS
1,2 DIPHENYLHYDRAZINE	<1.0	ug/L	EPA 625	1.00	3/28/00	4/10/00	JS
TETRACHLOROETHYLENE	<0.7	ug/L	EPA 624	0.71		3/23/00	JS
1,1,1-TRICHLOROETHANE	<1.0	ug/L	EPA 624	1.0		3/23/00	JS
TRICHLOROETHYLENE	<0.8	ug/L	EPA 624	0.81		3/23/00	JS

VINYL CHLORIDE	<1.0	ug/L	EPA 624	0.98		3/23/00	JS
CHLORDANE	BDL	ug/L	EPA 608	0.49	3/22/00	4/10/00	JW
METHOXYCHLOR	BDL	ug/L	EPA 608.2	9.93	3/22/00	4/10/00	JW
TOXAPHENE	BDL	ug/L	EPA 608	1.97	3/22/00	4/10/00	JW
2,4-D	<0.7	ug/L	EPA 615	0.66	3/21/00	3/29/00	JS
2,4,5-TP	<0.2	ug/L	EPA 615	0.23	3/21/00	3/29/00	JS

These results have been reviewed for their precision and accuracy by:

Jennifer L Wuchner

Jennifer L. Wuchner, QA Officer

John N. Gray

John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: SEC-Quarterly Monitoring Wells
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	032000	1100	MW # 1	✓		3	General, Metals Gross-Alpha	0003-032-1 WQL
							Depth to water 9.1 ft Total depth 29.4 ft Sulfite 3.2 ppm	032-1 WQL
							pH 5.8 SPC 922	032-1 WQL
	032000	1150	MW # 2	✓		3	General, Metals Gross Alpha	032-2 WQL
							Depth to water - 5.40 Total depth - 32.5 Sulfite 2.4 ppm	WQL
							pH 5.79 SPC 469	WQL
	032000	1215	MW # 3	✓		3	General, Metals Gross Alpha	032-3 WQL
							Depth to water 5.34 Total depth 30.3 Sulfite = 2.6 ppm	WQL
							pH 5.41 SPC 145	WQL
								WQL

1. Relinquished by:	Date	Time
Jennifer Makley	032000	1436
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by:	Date	Time

Remarks: BOTTLE LOT NO. - 1x44 SC0007 OUC
COOLER NO. - 31, 11, 23
Kits prepared by J

Received in laboratory by:	Date	Time
James S. Amundson	3-20-00	1436

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ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
 CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: SEC-Quarterly Monitoring Wells
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	032000	1245	MW#4	✓		3	General, metals Gross Alpha	032-4 WQL
							Depth to water 5.55ft Total Depth 29.7ft Sulfite 2.8ppm	WQL
							PH 4.40 SPC 54	WQL
	032000	1320	MW#5	✓		3	General, metals Gross Alpha	032-5 WQL
							Depth to water 7.63ft Total Depth 32.8ft	WQL
							Sulfite 6.0ppm PH 4.25 SPC 421	WQL
	032000	1330	MW#5 open	✓		3	General, metals Gross Alpha	032-6 WQL
							Depth to water 7.63ft Total Depth 32.8ft	WQL
							Sulfite 6.0ppm PH 4.25 SPC 423	WQL
								WQL

1. Relinquished by: <i>Jennifer Mackley</i>	Date 032000	Time 1436
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by:	Date	Time

Remarks: BOTTLE LOT NO. -
COOLER NO. -

Received in laboratory by: <i>James S. ...</i>	Date 3-20-00	Time 1436
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ORLANDO UTILITIES COMMISSION WATER
CHAIN OF CUSTODY REPORT

QUALITY LAB

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: STATION
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers: Brian Clark
Jim Maklary

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	032100	1030	MW8	✓		3	General, Metals Gross Alpha	0003-036-5 WQL
							Depth to water 6.98 ft Total Depth 24.90 ft	WQL
							PH 4.51 SPC 66 Sulfite 2.0ppm	WQL
	032100	1055	MW10	✓		3	General, Metals Gross Alpha	0003-036-6 WQL
							Depth to water 6.40 ft Total Depth 30.40 ft	WQL
							PH 4.51 SPC 42 Sulfite less than 2ppm	WQL
	032100	1130	MW 9	✓		3	Depth to water 7.90 ft Total Depth 30.4 ft	0003-036-7 WQL
							SPC 45 PH 4.58 Sulfite 2.4 ppm	WQL
							Gross, General Alpha Metals	WQL
								WQL

1. Relinquished by: <u>Jim Maklary</u>	Date <u>032100</u>	Time <u>1000</u>
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. - _____
COOLER NO. - _____

Received in laboratory by: <u>John G. Gray</u>	Date <u>0321-00</u>	Time <u>16:05</u>
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ORLANDO UTILITIES COMMISSION WATER UTILITY LAB
 CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: SANTON
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers: Brian Clark
Jen Maklary

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
032100	0815		Make up water supply pond	✓		3	Organics, General Gross Alpha Metals	0003-036-8 WQL
032100			Production well				pH 6.94 SpC 680 Sulfite less than 2.0 ppm	WQL
032100	0845		Production well field pipeline	✓		3	General, metals Gross Alpha	0003-036-9 WQL
							pH 7.27 SpC 392 Sulfite 6.0 ppm	WQL
032100	0930		MW 11	✓		3	General, metals Gross Alpha	0003-036-10 WQL
							pH 4.49 SpC 1638 Sulfite 2.6 ppm	WQL
							depth to water 5.6 ft Total depth 29.3	WQL
032100	0915		SW Ditch	✓		3	General, metals Gross Alpha	0003-036-11 WQL
							pH 5.87 SpC 1125 Sulfite 2.8 ppm	WQL
								WQL

1. Relinquished by:	Date	Time
Jennifer Maklary	03/21/00	16:00
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by:	Date	Time

Remarks: BOTTLE LOT NO. -
COOLER NO. -

Received in laboratory by:	Date	Time
John W. Day	03-21-00	16:05

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: STANTON
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers: Brian Clark
Jennifer Maklary

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
032100	1330	MW 6 Control			3	Gross Alpha General, metals	0003-036-1 WQL	
						pH 4.54 SPC 67 Sulfide 2.0 ppm	WQL	
032100	1400	MW 7		✓	3	Gross Alpha General, metals	0003-036-2 WQL	
032100		MW 9				Depth to water 3.96 ft Total depth 30.1 ft SPC 59 Sulfide 2.0 ppm pH 4.95	WQL	
032100	1430	MW 14		✓	3	General, Metals Gross Alpha	0003-036-3 WQL	
						Depth to water 5.05 ft Total depth 30.3 ft	WQL	
						Sulfide 4.8 ppm pH 6.021 SPC 758	WQL	
032100	1500	OW-4		✓	3	General, SPC Metals, Gross Alpha	0003-036-4 WQL	
						Depth to water 4.98 ft Total depth 31.3 ft	WQL	
						SPC 151 pH 4.90 Sulfide 8.0 ppm	WQL	

1. Relinquished by: <u>Jennifer Maklary</u>	Date <u>03/21/00</u>	Time <u>1600</u>
2. Received by: <u>J</u>	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. - _____

COOLER NO. - _____

Received in laboratory by: <u>John V. Long</u>	Date <u>3-21-00</u>	Time <u>16:00</u>
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ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: STANTON
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers: Brian Clark
Jennifer Maklay

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	032100	1140	MW9 App	✓		3	General, metals Gross Alpha pH 4.37 SPC 48 Sulfite 2.4 ppm depth to water 7.9 ft total depth 30.4 ft	0003-036-12 WQL
	032100	1215	MW12	✓		3	General, metals Gross Alpha depth to water 10.5 ft total depth 30.3 ft	0003-036-13 WQL
	032100	1250	MW13	✓		3	General, metals Gross Alpha pH 3.88 SPC 1999 Sulfite 2.6 ppm depth to water 8.30 ft total depth 29.8 ft	0003-036-14 WQL
	032100	1330	MW6	✓		3	General, metals Gross Alpha pH 3.71 SPC 380 Sulfite 2.3 ppm depth to water 8.13 ft total depth 32.60 ft	WQL

1. Relinquished by: <u>Jennifer Maklay</u>	Date 032100	Time 1600
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. -
COOLER NO. -

Received in laboratory by: <u>John V. DeG...</u>	Date 03-21-00	Time 16:15
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Chemical Testing
Environmental Toxicology
Field Services

Certificate of Analysis

REPORTED DATE: April 11, 2000

Page: 1 of 2 Pages

To: John Gray
Orlando Utilities Commission
Water Quality Laboratory
3800 Gardenia Ave.
Orlando, FL 32839
Phone: (407)244-8779 Fax: 244-8780
Your Project: SEC

1st Quarter
SEC - Monitoring Wells
Collected 3-20-21-00

MONITORING

PBS&J Login Number: 0003-544

RECEIVED DATE: 22-MAR-00
PO#:

PBSJ Sample No.	Client Sample ID	Collection date/time
0003-544-01	MW#1	03/20/00 11:00:00
0003-544-02	MW#2	03/20/00 11:50:00
0003-544-03	MW#3	03/20/00 12:15:00
0003-544-04	MW#4	03/20/00 12:45:00
0003-544-05	MW#5	03/20/00 13:20:00
0003-544-06	MW#5 DUP	03/20/00 13:20:00
0003-544-07	MW#6	03/21/00 13:30:00
0003-544-08	MW#7	03/21/00 14:00:00
0003-544-09	MW#8	03/21/00 10:30:00
0003-544-10	MW#9	03/21/00 11:30:00
0003-544-11	MW#9 DUP	03/21/00 11:30:00
0003-544-12	MW#10	03/21/00 10:55:00
0003-544-13	MW#11	03/21/00 10:55:00
0003-544-14	MW#12	03/21/00 08:45:00
0003-544-15	MW#13	03/21/00 12:15:00

Chemtest Laboratory

Certificate of Analysis

REPORTED DATE: April 11, 2000

Page: 2 of 2 Pages

PBSJ Sample No.	Client Sample ID	Collection date/time	
0003-544-16	MW#14	03/21/00	14:30:00
0003-544-17	SW-DITCH	03/21/00	09:15:00
0003-544-18	OW-4	03/21/00	15:00:00
0003-544-19	PWFP	03/21/00	05:45:00
0003-544-20	MWSP	03/21/00	08:15:00

Thank you for using PBS&J Analytical Services



T. French

PBS&J Project Manager

RESULTS BY SAMPLE

Reported: April 11, 2000 09:59 AM

Page 1 of 6 Pages

SENT John Gray
 TO: Orlando Utilities Commission
 Water Quality Laboratory
 3800 Gardenia Ave.
 Orlando, FL 32839
 (407)244-8779 FAX 244-8780

PBS&J Project Manager: T. French

This is to certify that the following samples were analyzed using good laboratory practices to show the following results:

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-1	MW#1	03/22/00	MONITORING	03/20/00	11:00:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP			EPA 6010		03/23/00	03/24/00	DM
sodium	29	mg/l		.2			
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	6.3	pCi/l					
gross alpha counting error	2	pCi/l					
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-2	MW#2	03/22/00		03/20/00	11:50:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP			EPA 6010		03/23/00	03/24/00	DM
sodium	21	mg/l		.2			
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	4.4	pCi/l					
gross alpha counting error	2.2	pCi/l					
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-3	MW#3	03/22/00		03/20/00	12:15:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP			EPA 6010		03/23/00	03/24/00	DM
sodium	7.9	mg/l		.2			
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	1.3	pCi/l					
gross alpha counting error	.9	pCi/l					

RESULTS BY SAMPLE

Reported: April 11, 2000 09:59 AM

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PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-4	MW#4	03/22/00		03/20/00	12:45:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	6.6	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	.6	pCi/l					
gross alpha counting error	.7	pCi/l					

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-5	MW#5	03/22/00		03/20/00	13:20:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	20.1	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	8.2	pCi/l					
gross alpha counting error	2	pCi/l					

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-6	MW#5 DUP	03/22/00		03/20/00	13:20:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	20.4	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	12	pCi/l					
gross alpha counting error	2.4	pCi/l					

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-7	MW#8	03/22/00		03/21/00	13:30:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	7.3	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	.5	pCi/l					
gross alpha counting error	.6	pCi/l					

RESULTS BY SAMPLE

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Page 3 of 6 Pages

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-8	MW#7	03/22/00		03/21/00	14:00:00		
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00 DM
sodium	4.5		mg/l		.2		
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00 CD
gross alpha radiation	1.6		pCi/l				
gross alpha counting error	.9		pCi/l				
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-9	MW#8	03/22/00		03/21/00	10:30:00		
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00 DM
sodium	6.1		mg/l		.2		
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00 CD
gross alpha radiation	2.1		pCi/l				
gross alpha counting error	1		pCi/l				
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-10	MW#9	03/22/00		03/21/00	11:30:00		
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00 DM
sodium	5.3		mg/l		.2		
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00 CD
gross alpha radiation	3.2		pCi/l				
gross alpha counting error	1.1		pCi/l				
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-11	MW#9 DUP	03/22/00		03/21/00	11:30:00		
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00 DM
sodium	5.4		mg/l		.2		
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00 CD
gross alpha radiation	1.9		pCi/l				
gross alpha counting error	.9		pCi/l				

RESULTS BY SAMPLE

Reported: April 11, 2000 09:59 AM

Page 4 of 6 Pages

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected				
0003-544-12	MW#10	03/22/00		03/21/00	10:55:00			
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00	DM
sodium	4.8		mg/l		.2			
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00	CD
gross alpha radiation	1.9		pCi/l					
gross alpha counting error	.9		pCi/l					

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected				
0003-544-13	MW#11	03/22/00		03/21/00	10:55:00			
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00	DM
sodium	108		mg/l		.2			
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00	CD
gross alpha radiation	31.1		pCi/l					
gross alpha counting error	4.3		pCi/l					

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected				
0003-544-14	MW#12	03/22/00		03/21/00	08:45:00			
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00	DM
sodium	94.6		mg/l		.2			
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00	CD
gross alpha radiation	23.6		pCi/l					
gross alpha counting error	3.8		pCi/l					

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected				
0003-544-15	MW#13	03/22/00		03/21/00	12:15:00			
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00	DM
sodium	20.1		mg/l		.2			
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00	CD
gross alpha radiation	29.1		pCi/l					
gross alpha counting error	2.9		pCi/l					

RESULTS BY SAMPLE

Reported: April 11, 2000 09:59 AM

Page 5 of 6 Pages

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-16	MW#14	03/22/00		03/21/00	14:30:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	12.3	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	8.1	pCi/l					
gross alpha counting error	2.9	pCi/l					
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-17	SW-DITCH	03/22/00		03/21/00	09:15:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	67.1	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	11	pCi/l					
gross alpha counting error	3.4	pCi/l					
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-18	OW-4	03/22/00		03/21/00	15:00:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	10.3	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	2.8	pCi/l					
gross alpha counting error	1.1	pCi/l					
PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected			
0003-544-19	PWFP	03/22/00		03/21/00	05:45:00		
Parameter	Results	Qual Units	Method	MDL	Prepdate	Analyzed	Analyst
Metals in Waters by ICAP sodium	13	mg/l	EPA 6010	.2	03/23/00	03/24/00	DM
Gross Alpha Radioactivity in Water			EPA 900.0			03/23/00	CD
gross alpha radiation	1.8	pCi/l					
gross alpha counting error	1.4	pCi/l					

RESULTS BY SAMPLE

Reported: April 11, 2000 09:59 AM

Page 6 of 6 Pages

PBS&J Sample No.	Client ID	Date Received	Site	Date & Time Collected				
0003-544-20	MWSP	03/22/00		03/21/00 08:16:00				
Parameter	Results	Qual	Units	Method	MDL	Prepdate	Analyzed	Analyst
Determination of Radium 226 in Waters				EPA 903.1			03/24/00	CD
radium 226	0		pCi/l					
radium 226 counting error	0		pCi/l					
Determination of Radium 228 in Water				EPA RA-05			04/03/00	CD
radium 228	.1		pCi/l					
radium 228 counting error	.5		pCi/l					
Metals in Waters by ICAP				EPA 6010		03/23/00	03/24/00	DM
sodium	63.8		mg/l		.2			
Gross Alpha Radioactivity in Water				EPA 900.0			03/23/00	CD
Gross alpha radiation	3.2		pCi/l					
Gross alpha counting error	2		pCi/l					



ANALYTICAL SERVICES

6635 East Colonial Drive
Orlando, FL 32807
Phone: (407)277-4443 FAX: (407)382-8794

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 07435

Water Quality Lab

CLIENT NAME Orlando Utilities Com	P.O. NUMBER	MATRIX GAS (G) / COMPOSITE (C) AQUEOUS SOLID AIR OIL
CLIENT ADDRESS 3800 Gardenia Ave	CLIENT PROJECT MANAGER John Gray	
CITY, STATE, ZIP Orlando Fla 32839	PROJECT NUMBER	
SAMPLER(S) NAME(S)	PROJECT NAME SEC-Monitoring	

GENERALS	METAL Na	NUTRIENTS	VOA	SEMIVOLATILE	CYANIDE	PHENOL	BACTERIA	GREASE AND OIL	OTHER Gross Alkalinity (Total)	OTHER
----------	-------------	-----------	-----	--------------	---------	--------	----------	----------------	-----------------------------------	-------

STANDARD TAT
 EXPEDITED TAT
* SUBJECT TO RUSH FEES
REPORT DUE DATE: 4-5-00

REMARKS:
Due (4-5-00)

STATION NO	SAMPLING		STATION/SITE IDENTIFICATION	GAS (G) / COMPOSITE (C)	AQUEOUS	SOLID	AIR	OIL	GENERALS	METAL	NUTRIENTS	VOA	SEMIVOLATILE	CYANIDE	PHENOL	BACTERIA	GREASE AND OIL	OTHER	OTHER	NUMBER OF SAMPLE CONTAINERS SUBMITTED	LAB SAMPLE I.D.
	DATE	TIME																			
	3-20-00	11:00	M.W #1 - SEC							1										1	0003-544-1
		11:50	M.W #2 - SEC							1										1	-2
		12:15	M.W #3 - SEC							1										1	-3
		12:45	M.W #4 - SEC							1										1	-4
		13:20	M.W #5 - SEC							1										1	-5
	✓	13:20	M.W #5 - Dup							1										1	-6
	3-21-00	13:30	M.W #6 - SEC							1										1	-7
		14:00	M.W #7 - SEC							1										1	-8
		10:30	M.W #8 - SEC							1										1	-9
		11:30	M.W #9 - SEC							1										1	-10
		11:30	M.W #9 - Dup							1										1	-11
	✓	10:55	M.W #10 - SEC							1										1	-12

1. RELINQUISHED BY: (SIGNATURE) MK Maloe	DATE 3-22-00	TIME 11:25 A	3. RELINQUISHED BY: (SIGNATURE)	DATE	TIME	5. RELINQUISHED BY: (SIGNATURE)	DATE	TIME
2. RECEIVED BY: (SIGNATURE)	DATE	TIME	4. RECEIVED BY: (SIGNATURE)	DATE	TIME	6. RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED IN LABORATORY BY: (SIGNATURE) Mona Rensch	DATE 3/22/00	TIME 11:25	FOR LABORATORY USE ONLY	SAMPLE CONTAINERS PREPARED BY:	DATE	TIME
LABORATORY RE	CONTAINERS INTACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		CUSTODY SEALS INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO	SAMPLE CONTAINERS CHECKED BY:	DATE	TIME



ANALYTICAL SERVICES

6635 East Colonial Drive
Orlando, FL 32807

Phone: (407)277-4443 FAX: (407)382-8794

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 07435

Water Quality Lab

CLIENT NAME Orlando Utilities Com	P.O. NUMBER
CLIENT ADDRESS 3800 Gardenia Ave	CLIENT PROJECT MANAGER John Gray
CITY, STATE, ZIP Orlando Fla 32839	PROJECT NUMBER
SAMPLER(S) NAME(S)	PROJECT NAME SEC-Monitoring

MATRIX			
GRAB (G)	COMPOSITE (C)	AQUEOUS	SOLID
			AIR
			OIL

GENERAL	METAL	NUTRIENTS	VDA	SEMIVOLATILE	CYANIDE	PHENOL	BACTERIA	GREASE AND OIL	OTHER	OTHER
	Na									

STANDARD TAT
 EXPEDITED TAT*

* SUBJECT TO RUSH FEES
REPORT DUE DATE: 4-5-00

REMARKS:
Due (4-5-00)

Gross Alpha (Total)

STATION NO.	SAMPLING		STATION/SITE IDENTIFICATION	NUMBER OF SAMPLE CONTAINERS SUBMITTED										LAB SAMPLE I.D.			
	DATE	TIME		GENERAL	METAL	NUTRIENTS	VDA	SEMIVOLATILE	CYANIDE	PHENOL	BACTERIA	GREASE AND OIL	OTHER		OTHER		
	3-20-00	11:00	MW #1 - SEC														003-544-1
		11:50	MW #2 - SEC														-2
		12:15	MW #3 - SEC														-3
		12:45	MW #4 - SEC														-4
		13:20	MW #5 - SEC														-5
	✓	13:20	MW #5 - Dup														-6
	3-21-00	13:30	MW #6 - SEC														-7
		14:00	MW #7 - SEC														-8
		10:30	MW #8 - SEC														-9
		11:30	MW #9 - SEC														-10
		11:30	MW #9 - Dup														-11
	✓	10:55	MW #10 - SEC														-12

1. RELINQUISHED BY: (SIGNATURE) <i>MK Malone</i>	DATE 3-22-00	TIME 11:25A	3. RELINQUISHED BY: (SIGNATURE)	DATE	TIME	5. RELINQUISHED BY: (SIGNATURE)	DATE	TIME
2. RECEIVED BY: (SIGNATURE)	DATE	TIME	4. RECEIVED BY: (SIGNATURE)	DATE	TIME	6. RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED IN LABORATORY BY: (SIGNATURE) <i>Alvin Runk</i>	DATE 3/22/00	TIME 11:25	CONTAINERS INTACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CUSTODY SEALS INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO	SAMPLE CONTAINERS PREPARED BY:	DATE	TIME
LABORATORY RECEIVED BY:					SAMPLE CONTAINERS CHECKED BY:	DATE	TIME

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 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-1

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

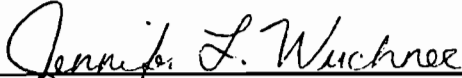
Label: MW-1
 Date Sampled: 11/29/99
 Time Sampled: 18:30
 Date Received: 11/30/99
 Collected by: MP

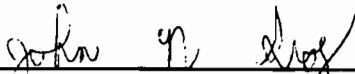
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.055	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	0.002	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.316	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	137.1	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	24.5	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	2.09	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	8.07	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.005	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.006	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	870	us	SM2510B	0	11/29/99	MP
TDS	589	mg/L	SM2540C	1	12/1/99	JES
pH	4.94	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	95.2	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	0.39	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	BDL	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	1.92	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.79	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission

Water Quality Lab

3800 Gardenia Avenue

P.O. Box 3193

Orlando, Florida 32802

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Fax: 407.244.8780

Website: www.ouc.com



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ADDRESS: Orlando Utilities Commission
500 South Orange Avenue
Orlando, Florida 32801
Leonard Mancini

PAGE: Page 1 of 2
DATE: 1/6/00
OUC Log #: 9911-013-2

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

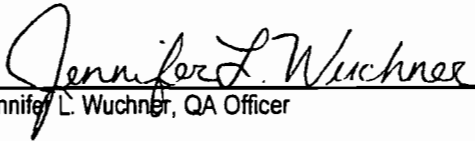
Label: MW-2
Date Sampled: 11/29/99
Time Sampled: 18:00
Date Received: 11/30/99
Collected by: MP

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	5.10	mg/L	SM3111B	0.003		12/7/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.319	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	0.002	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	39.5	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	2.80	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	3.71	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	5.57	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.006	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

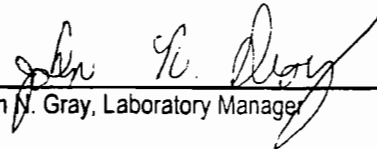
PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	581	us	SM2510B	0	11/29/99	MP
TDS	265	mg/L	SM2540C	1	12/1/99	JES
pH	6.01	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	22.1	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	0.63	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	43.4	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	1.92	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	19.0	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:



Jennifer L. Wuchner, QA Officer



John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

Orlando Utilities Commission
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CERTIFICATE OF ANALYSIS

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 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-3

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS


Label: MW-3
 Date Sampled: 11/29/99
 Time Sampled: 17:35
 Date Received: 11/30/99
 Collected by: MP

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.378	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.111	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	21.5	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0,01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.38	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	1.38	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	1.95	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.003	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.01	mg/L	SM3111B	0.01		12/6/99	JG

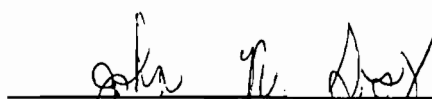
PAGE 2 OF 2

COLOR	18	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	190	us	SM2510B	0	11/29/99	MP
TDS	110	mg/L	SM2540C	1	12/1/99	JES
pH	5.96	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	6.87	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	1.63	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	1.92	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.39	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566


John N. Gray, Laboratory Manager

Orlando Utilities Commission
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 Orlando, Florida 32802
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 Website: www.ouc.com



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 ADDRESS: Orlando Utilities Commission
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 Orlando, Florida 32801
 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-4

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

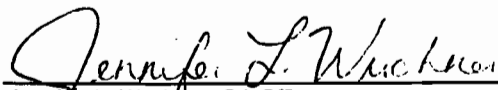
Label: MW-4
 Date Sampled: 11/29/99
 Time Sampled: 17:00
 Date Received: 11/30/99
 Collected by: MP

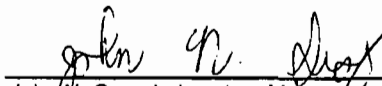
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.321	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.035	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	0.59	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.52	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	1.02	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	1.37	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.002	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	6	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	61	us	SM2510B	0	11/29/99	MP
TDS	54	mg/L	SM2540C	1	12/1/99	JES
pH	4.71	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	9.01	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	239	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	1.92	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.62	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchler, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Orlando, Florida 32801
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PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-5

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-5
 Date Sampled: 11/29/99
 Time Sampled: 16:40
 Date Received: 11/30/99
 Collected by: MP

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINIUM	1.87	mg/L	SM3111B	0.003		12/7/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.837	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	29.4	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	1.63	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	11.7	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	7.49	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.003	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	BDL	mg/L	SM3111B	0.01		12/6/99	JG

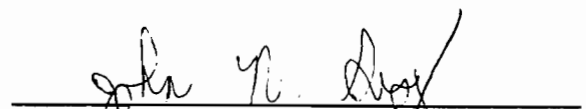
PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	394	us	SM2510B	0	11/29/99	MP
TDS	275	mg/L	SM2540C	1	12/1/99	JES
pH	4.82	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	34.3	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	120	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	7.78	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	1.24	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566


John N. Gray, Laboratory Manager

Orlando Utilities Commission

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PAGE: Page 1 of 2
DATE: 1/6/00
OUC Log #: 9911-013-6

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

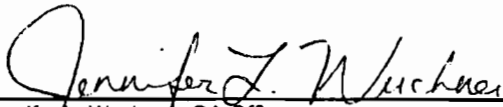
Label: MW-6
Date Sampled: 11/29/99
Time Sampled: 15:50
Date Received: 11/30/99
Collected by: MP

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.88	mg/L	SM3111B	0.003		12/7/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.023	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	0.59	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.28	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	0.64	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	1.30	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.001	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.01	mg/L	SM3111B	0.01		12/6/99	JG

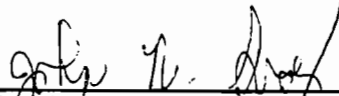
PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	65	us	SM2510B	0	11/29/99	MP
TDS	60	mg/L	SM2540C	1	12/1/99	JES
pH	4.62	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	11.9	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	0.377	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	2.56	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	5.24	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:



Jennifer L. Wuchner, QA Officer



John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-7

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-7
 Date Sampled: 11/29/99
 Time Sampled: 16:00
 Date Received: 11/30/99
 Collected by: MP

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.426	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.043	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	3.47	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.20	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	0.99	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	1.27	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	10	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	51	us	SM2510B	0	11/29/99	MP
TDS	54	mg/L	SM2540C	1	12/1/99	JES
pH	4.91	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	8.26	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	0.09	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	1.38	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	3.84	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.11	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:



Jennifer L. Wuchner, QA Officer



John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-8

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS


Label: MW-8
 Date Sampled: 11/29/99
 Time Sampled: 14:20
 Date Received: 11/30/99
 Collected by: MP

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.387	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.022	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	2.83	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.52	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	0.36	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	1.92	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.03	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.01	mg/L	SM3111B	0.01		12/6/99	JG


PAGE 2 OF 2

COLOR	12	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	60	us	SM2510B	0	11/29/99	MP
TDS	63	mg/L	SM2540C	1	12/1/99	JES
pH	5.44	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	12.4	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	2.71	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	1.92	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.62	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566


John N. Gray, Laboratory Manager

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PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-9

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS


Label: MW-9
 Date Sampled: 11/29/99
 Time Sampled: 14:00
 Date Received: 11/30/99
 Collected by: MP


PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.431	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.011	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	3.31	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.36	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	0.38	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	1.80	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	18	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	38	us	SM2510B	0	11/29/99	MP
TDS	52	mg/L	SM2540C	1	12/1/99	JES
pH	5.02	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	8.79	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	3.11	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	1.28	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	2.98	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/6/00
 OUC Log #: 9911-013-10

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

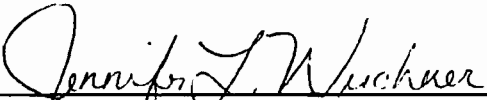
Label: MW-10
 Date Sampled: 11/29/99
 Time Sampled: 14:40
 Date Received: 11/30/99
 Collected by: MP

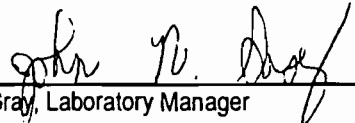
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.273	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.010	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	0.275	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.45	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	0.22	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	0.99	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.003	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	16	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	40	us	SM2510B	0	11/29/99	MP
TDS	37	mg/L	SM2540C	1	12/1/99	JES
pH	4.76	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	5.77	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	0.06	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	2.29	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	0.64	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.40	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wudiner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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 Leonard Mancini

PAGE: Page 1 of 2
 DATE: 1/10/00
 OUC Log #: 9911-013-11

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

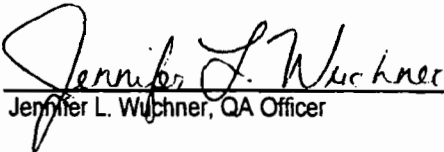
Label: MW-11
 Date Sampled: 11/29/99
 Time Sampled: 15:00
 Date Received: 11/30/99
 Collected by: M.P.

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	1.02	mg/L	SM3111B	0.003		12/7/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.493	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	108.3	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	2.8	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	11.2	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	6.81	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.001	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

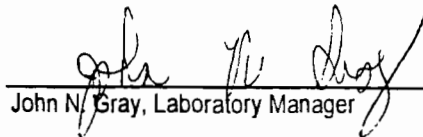
PAGE 2 OF 2

COLOR	14	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	900	us	SM2510B	0	11/29/99	MP
TDS	580	mg/L	SM2540C	1	12/1/99	JES
pH	5.14	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	264	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	3.98	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	2.56	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.11	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566


John N. Gray, Laboratory Manager

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PAGE: Page 1 of 2
 DATE: 1/10/00
 OUC Log #: 9911-013-12

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW-12
 Date Sampled: 11/29/99
 Time Sampled: 15:10
 Date Received: 11/30/99
 Collected by: M.P.

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	18.9	mg/L	SM3111B	0.003		12/7/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.0781	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	253.9	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	4.6	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	61.7	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	13.1	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.003	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	0.004	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	16	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	1750	us	SM2510B	0	11/29/99	MP
TDS	1492	mg/L	SM2540C	1	12/1/99	JES
pH	4.06	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	207	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	147	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	3.84	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.41	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/10/00
 OUC Log #: 9911-013-13

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

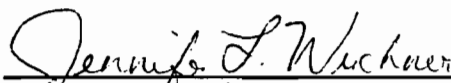
Label: MW-13
 Date Sampled: 11/29/99
 Time Sampled: 15:20
 Date Received: 11/30/99
 Collected by: M.P.

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	1.91	mg/L	SM3111B	0.003		12/7/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.073	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	5.87	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	<0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	1.16	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	1.36	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	5.69	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	BDL	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.001	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	0.001	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

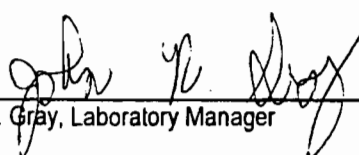
PAGE 2 OF 2

COLOR	14	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	210	us	SM2510B	0	11/29/99	MP
TDS	143	mg/L	SM2540C	1	12/1/99	JES
pH	4.07	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	43.8	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	27.3	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	1.92	mg/L	SM4500SO3	1.0	11/29/99	JW
TURBIDITY	0.34	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566


John N. Gray, Laboratory Manager

Orlando Utilities Commission
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PAGE: Page 1 of 2
 DATE: 1/10/00
 OUC Log #: 9911-013-14

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

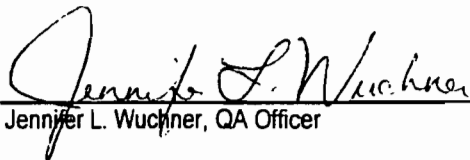
Label: MW-14
 Date Sampled: 11/29/99
 Time Sampled: 16:30
 Date Received: 11/30/99
 Collected by: M.P.

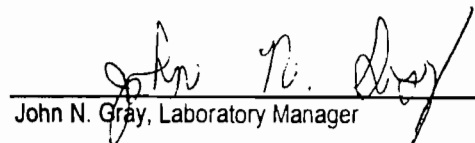
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.333	mg/L	SM3111B	0.003		12/7/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.17	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	98.7	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.2	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	13.8	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	5.79	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.04	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	0.002	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	0.005	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	0.003	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.06	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	>30	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	725	us	SM2510B	0	11/29/99	MP
TDS	435	mg/L	SM2540C	1	12/1/99	JES
pH	6.19	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	28.7	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	1.5	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	8.96	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	3.12	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566

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PAGE: Page 1 of 2
 DATE: 1/10/00
 OUC Log #: 9911-013-15

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

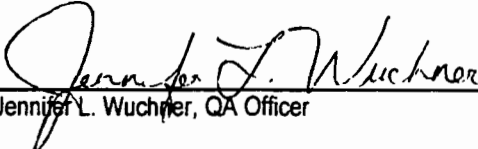
Label: OW-4
 Date Sampled: 11/29/99
 Time Sampled: 17:20
 Date Received: 11/30/99
 Collected by: M.P.

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.18	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.104	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	11.2	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	<0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	1.2	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	2.08	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	2.39	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	BDL	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

COLOR	12	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	115	us	SM2510B	0	11/29/99	MP
TDS	103	mg/L	SM2540C	1	12/1/99	JES
pH	4.91	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	10.5	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	23.7	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	6.4	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.54	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:



Jennifer L. Wuchner, QA Officer

CompQAP #870156G
FDOH LAB ID # E53566



John N. Gray, Laboratory Manager

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PAGE: Page 1 of 2
 DATE: 1/10/00
 OUC Log #: 9911013-16

Sample Description: SEC - SURFICIAL AQUIFER MONITORING WELLS

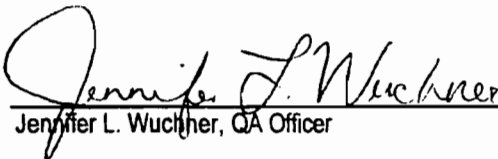
Label: OW-4 DUP
 Date Sampled: 11/29/99
 Time Sampled: 17:20
 Date Received: 11/30/99
 Collected by: M.P.

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	<0.001	mg/L	SM3113B	0.0003		12/7/99	JG
ALUMINUM	0.191	mg/L	SM3111B	0.003		12/8/99	JG
ARSENIC	<0.001	mg/L	SM3113B	0.001		12/22/99	JG
BARIUM	0.082	mg/L	SM3113B	0.001		12/27/99	JG
BERYLLIUM	<0.001	mg/L	SM3113B	0.0002		12/28/99	JG
CALCIUM	9.55	mg/L	SM3111B	0.1		12/29/99	JG
CADMIUM	<0.001	mg/L	SM3113B	0.0002		12/6/99	JG
CHROMIUM	0.002	mg/L	SM3113B	0.002		12/22/99	JG
COPPER	0.01	mg/L	SM3111B	0.01		12/6/99	JG
IRON	0.94	mg/L	SM3111B	0.02		12/7/99	JG
MERCURY	BDL	mg/L	245.1	0.0005		12/27/99	JG
POTASSIUM	1.66	mg/L	SM3111B	0.02		12/29/99	JG
MAGNESIUM	2.08	mg/L	SM3111B	0.02		12/29/99	JG
MANGANESE	0.02	mg/L	SM3111B	0.02		12/21/99	JG
MOLYBDENUM	BDL	mg/L	SM3113B	0.002		12/30/99	JG
SODIUM		mg/L	EPA6010	0.2			
NICKEL	BDL	mg/L	SM3113B	0.001		1/3/00	JG
LEAD	BDL	mg/L	SM3113B	0.001		12/5/99	JG
SELENIUM	BDL	mg/L	SM3113B	0.001		12/23/99	JG
ZINC	0.02	mg/L	SM3111B	0.01		12/6/99	JG

PAGE 2 OF 2

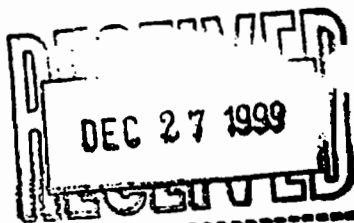
COLOR	12	CU	SM2120B	0	12/1/99	JG
SPECIFIC COND.	115	us	SM2510B	0	11/29/99	MP
TDS	105	mg/L	SM2540C	1	12/1/99	JES
pH	4.91	pH units	SM4500HB	0	11/29/99	MP
CHLORIDE	10.4	mg/L	EPA300.0	0.1	12/1/99	JW
NITRATE	BDL	mg/L	EPA300.0	0.10	12/1/99	JW
PHOSPHATE TOTAL	BDL	mg/L	EPA300.0	0.05	12/16/99	JG
SULFATE	24.7	mg/L	EPA300.0	0.06	12/1/99	JW
SULFITE	6.4	mg/L	SM4500SO3	1.0	11/29/99	MP
TURBIDITY	0.54	NTU	EPA180.1	0.01	11/29/99	MP
GROSS ALPHA (TOTAL)		pCi/L	EPA900.0	0+/-2.8		

These results have been reviewed for their precision and accuracy by:


Jennifer L. Wuchner, QA Officer


John N. Gray, Laboratory Manager

CompQAP #870156G
FDOH LAB ID # E53566



December 17, 1999 17:11

CERTIFICATE OF ANALYSIS
SAMPLE SUMMARY

WORKORDER:
9912008

SENT **ORLANDO UTILITIES COMMISSION**
TO: **WATER QUALITY LABORATORY**
3800 GARDENIA AVENUE
ORLANDO, FL 32839
JOHN GRAY
(407)244-8779 FAX 244-8780

ANALYZED **PBS&J Analytical Services**
BY: **6635 East Colonial Drive**
Orlando, Florida 32807


Phone: (407) 277-4443
Fax: (407)382-8794

PROJECT: 21 000 53
PBS&J CONTACT: FRENCH
RECEIVED DATE: 12/01/99
REPORTED DATE: 12/17/99

WORK DESCRIPTION: SEC QUARTERLY
TAKEN BY:
TRANSPORTED: CLIENT DELIVERED
SAMPLE TYPES: GRAB
PO#: S 67424

State of Florida Certifications: E83011-Environmental, 83170-Drinking Water and Radiochemistry
CompQAP 860044G. State of North Carolina Certification: 547

SAMPLE DESCRIPTION	LAB ID	COLLECTED DATE/TIME
MW-1	01	11/24/99 18:30:00
MW-2	02	11/24/99 18:00:00
MW-3	03	11/24/99 17:35:00
MW-4	04	11/24/99 17:00:00
MW-5	05	11/24/99 16:40:00
MW-6	06	11/24/99 15:50:00
MW-7	07	11/24/99 16:00:00
MW-8	08	11/24/99 14:20:00
MW-9	09	11/24/99 14:00:00
MW-10	10	11/24/99 14:40:00
MW-11	11	11/24/99 15:00:00
MW-12	12	11/24/99 15:10:00
MW-13	13	11/24/99 15:20:00
MW-14	14	11/24/99 16:30:00
OW-4	15	11/24/99 17:20:00
OW-4 DUP	16	11/24/99 17:20:00
EQUIPMENT BLANK	17	11/24/99 13:30:00
SW-DITCH	18	11/24/99 14:50:00
MAKEUP WATER SUPPLY POND	19	11/24/99 11:05:00
PROD. WELL FIELD PIPELINE	20	11/24/99 10:50:00


Tom French/Vanessa May
Project Manager

Thank you for using PBS&J Analytical Services

CERTIFICATE OF ANALYSIS

RESULTS BY SAMPLE

SENT **ORLANDO UTILITIES COMMISSION** ANALYZED BY: PBS&J Analytical Services
 TO: **WATER QUALITY LABORATORY** 6635 East Colonial Drive
3800 GARDENIA AVENUE Orlando, FL 32807
ORLANDO, FL 32839
JOHN GRAY Phone: (407) 277-4443
(407)244-8779 FAX 244-8780 Fax: (407) 382-8794

This is to certify that the following samples were analyzed using good laboratory practices to show the following results.

Sample ID: MW-1 Lab ID: **9912008-01** Collected: 11/24/99 18:30:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	25	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	34.8	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	5.1	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-2 Lab ID: **9912008-02** Collected: 11/24/99 18:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	20	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	7.0	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	2.4	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-3 Lab ID: **9912008-03** Collected: 11/24/99 17:35:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	5.4	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	1.3	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	0.9	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-4 Lab ID: **9912008-04** Collected: 11/24/99 17:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	5.8	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	0.6	pCi/L	EPA 900.0		12/01/99	cd

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-4Lab ID: **9912008-04**

Collected: 11/24/99 17:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
ALPHA-counting error	0.6	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-5Lab ID: **9912008-05**

Collected: 11/24/99 16:40:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	15	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	10.1	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	2.2	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-6Lab ID: **9912008-06**

Collected: 11/24/99 15:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	6.2	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	2.1	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	1.0	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-7Lab ID: **9912008-07**

Collected: 11/24/99 16:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	4.5	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	0.9	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	0.7	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-8Lab ID: **9912008-08**

Collected: 11/24/99 14:20:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	6.3	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	1.2	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	0.8	pCi/L	EPA 900.0		12/01/99	cd

CERTIFICATE OF ANALYSIS

RESULTS BY SAMPLE

Sample ID: MW-9

Lab ID: 9912008-09

Collected: 11/24/99 14:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	4.8	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	1.3	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	0.8	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-10

Lab ID: 9912008-10

Collected: 11/24/99 14:40:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	4.6	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	1.5	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	0.8	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-11

Lab ID: 9912008-11

Collected: 11/24/99 15:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	54	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	5.9	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	1.7	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-12

Lab ID: 9912008-12

Collected: 11/24/99 15:10:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	88	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	25.9	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	4.3	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-13

Lab ID: 9912008-13

Collected: 11/24/99 15:20:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	22	mg/L	EPA 6010		12/13/99	dm

CERTIFICATE OF ANALYSIS

RESULTS BY SAMPLE

Sample ID: MW-13Lab ID: **9912008-13**

Collected: 11/24/99 15:20:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
ALPHA, TOTAL	11.9	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	2.1	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MW-14Lab ID: **9912008-14**

Collected: 11/24/99 16:30:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	14	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	10.6	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	2.5	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: OW-4Lab ID: **9912008-15**

Collected: 11/24/99 17:20:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	8.8	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	2.9	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	1.1	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: OW-4 DUPLab ID: **9912008-16**

Collected: 11/24/99 17:20:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	8.6	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	3.1	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	1.2	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: EQUIPMENT BLANKLab ID: **9912008-17**

Collected: 11/24/99 13:30:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	<0.2 U	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	0.0	pCi/L	EPA 900.0		12/01/99	cd

CERTIFICATE OF ANALYSIS

RESULTS BY SAMPLE

Sample ID: EQUIPMENT BLANKLab ID: **9912008-17**

Collected: 11/24/99 13:30:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
ALPHA-counting error	0.4	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: SW-DITCHLab ID: **9912008-18**

Collected: 11/24/99 14:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	95	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	13.7	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	2.3	pCi/L	EPA 900.0		12/01/99	cd

Sample ID: MAKEUP WATER SUPPLY POND Lab ID: **9912008-19** Collected: 11/24/99 11:05:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	61	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	4.7	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	1.8	pCi/L	EPA 900.0		12/01/99	cd
RADIUM 226 IN WATER	0.1	pCi/L	EPA 903.1		11/30/99	cd
RADIUM 226-counting error	0.0	pCi/L	EPA 903.1		11/30/99	cd
RADIUM 228 IN WATER	0.2	pCi/L	EPA RA-05		12/10/99	cd
RADIUM 228-counting error	0.3	pCi/L	EPA RA-05		12/10/99	cd

Sample ID: PROD. WELL FIELD PIPELINE Lab ID: **9912008-20** Collected: 11/24/99 10:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	12	mg/L	EPA 6010		12/13/99	dm
ALPHA, TOTAL	1.5	pCi/L	EPA 900.0		12/01/99	cd
ALPHA-counting error	0.9	pCi/L	EPA 900.0		12/01/99	cd



ANALYTICAL SERVICES
 6635 East Colonial Drive
 Orlando, FL 32807
 Phone: (407)277-4443 FAX: (407)382-8794

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 07437

CLIENT NAME Orlando Utilities Commission			P.O. NUMBER Box 3193			MATRIX		<input type="checkbox"/> STANDARD TAT <input type="checkbox"/> EXPEDITED TAT * SUBJECT TO RUSH FEES REPORT DUE DATE: _____ REMARKS: _____ _____ _____ _____		
CLIENT ADDRESS			CLIENT PROJECT MANAGER John Gray			AQUEOUS				
CITY, STATE, ZIP Orlando, FL 32802			PROJECT NUMBER			SOLID				
SAMPLER(S) NAME(S)			PROJECT NAME SEC Quarterly			AIR				
STATION NO.		SAMPLING DATE		SAMPLING TIME		STATION/SITE IDENTIFICATION		GENERALS METAL Na NUTRIENTS VOA SEMI-VOLATILE CYANIDE PHENOL BACTERIA GREASE AND OIL OTHER Gross Alpha (Total) OTHER		
NUMBER OF SAMPLE CONTAINERS SUBMITTED								LAB SAMPLE I.D.		
		11/24/99	1830				mW-1	09/2008-01		
			1800				mW-2	02		
			1735				mW-3	03		
			1700				mW-4	04		
			1640				mW-5	05		
			1550				mW-6	06		
			1600				mW-7	07		
			1420				mW-8	08		
			1400				mW-9	09		
			1440				mW-10	10		
			1500				mW-11	11		
			1510				mW-12	12		
1. RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>			DATE	TIME	3. RELINQUISHED BY: (SIGNATURE)			DATE	TIME	
2. RECEIVED BY: (SIGNATURE) <i>[Signature]</i>			DATE	TIME	4. RECEIVED BY: (SIGNATURE)			DATE	TIME	
5. RELINQUISHED BY: (SIGNATURE)			DATE	TIME	6. RECEIVED BY: (SIGNATURE)			DATE	TIME	
RECEIVED BY LABORATORY BY: (SIGNATURE) <i>[Signature]</i>			DATE	TIME	FOR LABORATORY USE ONLY		SAMPLE CONTAINERS PREPARED BY:		DATE	TIME
LABORATORY REM.			DATE	TIME	CONTAINERS INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO		CUSTODY SEALS INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO		DATE	TIME
			DATE	TIME			SAMPLE CONTAINERS CHECKED BY:		DATE	TIME



ANALYTICAL SERVICES

6635 East Colonial Drive
Orlando, FL 32807
Phone: (407)277-4443 FAX: (407)382-8794

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 07433

CLIENT NAME Orlando Utilities Com		P.O. NUMBER Box 3193		MATRIX				GENERALS	METAL Na	NUTRIENTS	VOA	SEMIVOLATILE	CYANIDE	PESMOL	BACTERIA	GREASE AND OIL	OTHER Gross Alpha (Total)	OTHER Radium (Total) 226+228	<input type="checkbox"/> STANDARD TAT		
CLIENT ADDRESS		CLIENT PROJECT MANAGER John Gray		GRAB (G) / COMPOSITE (C)	AQUEOUS	SOLID	AIR												OIL	<input type="checkbox"/> EXPEDITED TAT*	* SUBJECT TO RUSH FEES
CITY, STATE, ZIP Orlando, FL 32802		PROJECT NUMBER																		REPORT DUE DATE: _____	
SAMPLER(S) NAME(S)		PROJECT NAME SEC Quarterly																		REMARKS:	

STATION NO.	SAMPLING		STATION/SITE IDENTIFICATION	GRAB (G) / COMPOSITE (C)	AQUEOUS	SOLID	AIR	OIL	GENERALS	METAL	NUTRIENTS	VOA	SEMIVOLATILE	CYANIDE	PESMOL	BACTERIA	GREASE AND OIL	OTHER	OTHER	NUMBER OF SAMPLE CONTAINERS SUBMITTED		LAB SAMPLE I.D.
	DATE	TIME																				
	11/24/99	1520	MW-13	G	✓					✓										1		99/2008-13
		1630	MW-14	G	✓					✓										1		14
		1720	OW-4	G	✓					✓										1		15
		1720	OW-4 - Dup	G	✓					✓										1		16
		1330	Equipment Blank	G	✓					✓										1		17
		14:50	SW - Ditch	G	✓					✓										1		18
	11/24/99	1105	MakeUp Water Supply Pond	G	✓					✓										1	1	19
	11/24/99	10:50	Production Well Field Pipeline	G	✓					✓										1		20

1. RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 12-1-99	TIME 10:40	3. RELINQUISHED BY: (SIGNATURE)	DATE	TIME	5. RELINQUISHED BY: (SIGNATURE)	DATE	TIME
2. RECEIVED BY: (SIGNATURE)	DATE	TIME	4. RECEIVED BY: (SIGNATURE)	DATE	TIME	6. RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR LABORATORY USE ONLY								
RECEIVED IN LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 12/1/99	TIME 10:35	CONTAINERS INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO	CUSTODY SEALS INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO	SAMPLE CONTAINERS PREPARED BY:	DATE	TIME	
LABORATORY RECEIVED BY:					SAMPLE CONTAINERS CHECKED BY:	DATE	TIME	

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: SEC - Monitoring Wells
Address: 500 S. ORANGE AVE.
City, State: Zip ORLANDO, FLA. 32802
Samplers:

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Compo			
	11/29/99	1830	mw-1	✓		3	General, Metals Gross Alpha (Total)	9911-013-1 WQL
		1800	mw 2	✓		3		013-2 WQL
		1735	mw-3	✓		3		013-3 WQL
		1700	mw 4	✓		3		013-4 WQL
		1640	mw 5	✓		3		013-5 WQL
		1550	mw 6	✓		3		013-6 WQL
		1600	mw 7	✓		3		013-7 WQL
		1420	mw 8	✓		3		013-8 WQL
		1400	mw -9	✓		3		013-9 WQL
		1440	mw-10	✓		3		013-10 WQL

Relinquished by:	Date	Time
<i>[Signature]</i>	11/30/99	1030A
Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. - 51 x 1 L S0007-0VE

COOLER NO. - #11, #31, #01

Received in laboratory by:	Date	Time
John Gray	11-30-99	~ 3 PM

Kit prepared by *[Signature]* 11/18/99

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: SEC-Monitoring Wells
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp.			
	11/29/99	1500	mw-11	✓		3	General, Metals, Gross Alpha (Total)	9911-013-11 WQL
		1510	mw-12	✓		3		013-12 WQL
		1520	mw-13	✓		3		013-13 WQL
		1630	mw-14	✓		3		013-14 WQL
		1720	ow-4	✓		3		013-15 WQL
		1720	ow-4 DUP	✓		3		013-16 WQL
	11/29/99	1330	EQUIP BLANK	✓		3		013-17 WQL
								WQL
								WQL
								WQL

Relinquished by: <i>J. J. [Signature]</i>	Date 11/30/99	Time 10:00 AM
Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. - 51x1L S0007-006
COOLER NO. - #11, #31, #01

Received in laboratory by: John Gray	Date 11-30-99	Time ~3 PM
---	------------------	---------------

Kit prepared by *J. J.* 11/18/99

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
 CHAIN OF CUSTODY REPORT

BEST AVAILABLE COPY

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: MakeUp Water Supply Pond
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Compo			
	11/24	1005	MakeUp Water Supply Pond	✓		13	Metals, General, Radium, Gross Alpha (Total)	9911-010-1 WQL
			ph = 7.06					WQL
			temp = 23.0					WQL
			cond = 686					WQL
								WQL
								WQL
								WQL
								WQL
								WQL
								WQL

Relinquished by:	Date	Time
Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. - S0007-OVC
COOLER NO. #22-OVC
4X1L S0007-OVC
4X1L Amber/Organics
4X25ml Amber/Organics
 Kit prepared by J. J. 11/18/99

Received in laboratory by:	Date	Time
----------------------------	------	------

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: SEC - SW - Ditch
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Compo.			
	11/29/99	1450	SW-Ditch (Near #11 Well)	✓		3	Metals, General, Gross Alpha (Total) pH Sulfite Conductance	9911-013-18 WQL
							ph = 4.76	WQL
							Cond = 1241	WQL
							temp = 21.4	WQL
							SO ₃ = 1.28	WQL
							turb = .16	WQL
								WQL
								WQL
								WQL

Relinquished by: <i>[Signature]</i>	Date: 11/30/99	Time: 1030 A
Received by: <i>[Signature]</i>	Date:	Time:

5. Relinquished by:	Date:	Time:
6. Received by:	Date:	Time:

Relinquished by:	Date:	Time:
Received by:	Date:	Time:

Received in laboratory by: John Gray	Date: 11-30-99	Time: ~3PM
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Remarks: BOTTLE LOT NO. - S0007-OVC
COOLER NO. - #47-M
3x 1L S0007-OVC
Kit prepared by g.f.
11/18/99

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB BEST AVAILABLE COPY
 CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: Production Wellfield Pipeline
 Address: 500 S. ORANGE AVE.
 City, State: Zip ORLANDO, FLA. 32802
 Samplers:

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	11/24	1050	Production Wellfield Pipeline	✓		3	Metals, General, Gross Alpha (Total)	9911-011-1 WQL
								WQL
			ph = 6.92					WQL
			tp = 211					WQL
			cond = 373					WQL
								WQL
								WQL
								WQL
								WQL
								WQL

Relinquished by:	Date	Time
Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. - S0007-OUC
COOLER NO. - #12
3 x 1L S0007-OUC

Received in laboratory by:	Date	Time
<i>[Signature]</i>	11/24/99	12:30

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>ouc</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1830</u>
Well ID: <u>MW-1</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>24.95</u> ft.	Peristaltic Pump	: <u>X</u>
Water Level	: <u>8.51</u> ft.	Submersible Pump	: <u> </u>
Column Height	: <u>16.44</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>2.67</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5K	: <u>13.37</u> gal	Bailer	: <u>X</u>
Actual	: <u>15.0</u> gal	Grab	: <u> </u>
GWL Above MSL	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>19.4</u> c	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>870</u> <small>Usebow/25C</small> <u>940</u> <small>by 21</small>	Color	: Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH	: <u>4.94</u> Units	Turbidity	: Clear <u>MBL</u> Medium Heavy
So3	<u>1.92</u> <u>ML</u>	Odor	: None <u>Slight</u> MBd Strong
turb	<u>1.79</u>	Description Odor	: Unknown

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2in.</u>	3in.	4in.	6in.	10in.	12in.	14in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>ODC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1800</u>
Well ID: <u>MW-2</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handbailed	: _____
Total Depth	: <u>32.63</u> ft.	Peristaltic Pump	: _____
Water Level	: <u>4.21</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>28.42</u> ft.	Centrifugal Pump	: _____
Column Volume	: <u>4.63</u> gal	Other	: _____
EVACUATION		SAMPLING METHOD	
Max EPA SX	: <u>23.16</u> gal	Boiler	: <u>X</u>
Actual	: <u>25.0</u> gal	Grab	: _____
GWL Above MSL:	: <u>-</u> ft.	Submersible Pump	: _____
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>15.6</u> c	Tint	: Light <u>Medium</u> Dark
Conductivity	: <u>581</u> μ S/cm @ 25C by JF	Color	: Colorless <u>5</u> Yellow Orange Brown Black Green
pH	: <u>6.01</u> Units	Turbidity	: Clear <u>None</u> Medium Heavy
SO ₃	: <u>1.92</u> mg/L	Odor	: None <u>Slight</u> Mild Strong
turb	: <u>19.02</u>	Description Odor	: Unknown

Well Location: Client Map - Our Map - Other (Exp/iso): Client Maps

Microbiological Comments: _____

Samples Obtained By (Print): Michael J.

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OUC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1735</u>
Well ID: <u>MW-3</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Hoodballed	: <u> </u>
Total Depth	: <u>30.37</u> ft.	Peristaltic Pump	: <u> </u>
Water Level	: <u>4.92</u> ft.	Submersible Pump	: <u>K</u>
Column Height	: <u>25.45</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>4.14</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>20.74</u> gal	Boiler	: <u>K</u>
Actual	: <u>22.0</u> gal	Grab	: <u> </u>
GWL Above MSL	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>19.1</u> c	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>170</u> Umho/25C <i>172 by JF</i>	Color	: Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH	: <u>5.96</u> Units	Turbidity	: Clear <u>Mild</u> Medium Heavy
So ₃	: <u>1.92</u> ml	Odor	: None <u>Slight</u> Mild Strong
turb	: <u>.39</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OUc</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1700</u>
Well ID: <u>MW-4</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handbailed	: <u> </u>
Total Depth	: <u>25.15</u> ft.	Peristaltic Pump	: <u> </u>
Water Level	: <u>4.81</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>20.34</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>3.31</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA SX	: <u>16.57</u> gal	Batch	: <u>X</u>
Actual	: <u>20.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>19.1</u> C	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>61</u> Umhos/25C 61 by JL	Color	: Colorless <u> </u> Yellow Orange Brown Black Green
pH	: <u>4.71</u> Units	Turbidity	: Clear <u>Mild</u> Medium Heavy
So3	: <u>1.92</u> ml	Odor	: None <u>Slight</u> Mild Strong
turb	: <u>.62</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.633	1.469	4.080	5.875	8.000

DATE PRINTED

DATE OF COLLECTION

PRINT NAME/ID/TT

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OUC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1640</u>
Well ID: <u>MW-5</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>32.88</u> ft.	Peristaltic Pump	: <u>X</u>
Water Level	: <u>6.88</u> ft.	Submersible Pump	: <u> </u>
Column Height	: <u>26.0</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>4.23</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA SX	: <u>21.19</u> gal	Boiler	: <u>X</u>
Actual	: <u>23.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>19.1</u> c	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>394</u> <u>Umhos/25C</u> <u>417</u> <u>by JH</u>	Color	: Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH	: <u>4.82</u> Units	Turbidity	: <u>Clear</u> Mild Medium Heavy
So ₃	: <u>7.78</u> mg/L	Odor	: None <u>Light</u> Mild Strong
turb	: <u>1.24</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2in.</u>	3in.	4in.	6in.	10in.	12in.	14in.
Volume Gal/Ft:	0.941	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

11/11/01 11:11 AM

/RIS-182-28

20:01 05/1/02/11

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OUC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1550</u>
Well ID: <u>MW-6</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>32.61</u> ft.	Peristaltic Pump	: <u> </u>
Water Level	: <u>7.03</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>25.58</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>4.16</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>20.84</u> gal	Boiler	: <u>X</u>
Actual	: <u>21.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>4.69</u> C	Tint	: Light <u>Medium</u> Dark
Conductivity	: <u>65</u> <u>Umhos/cm</u> ⁶² _{by JP}	Color	: Colorless <u>Y</u> Yellow Orange Brown Black Green
pH	: <u>4.62</u> Units	Turbidity	: Clear <u>MB</u> Medium Heavy
So ₃	: <u>2.56</u> mg/l	Odor	: None <u>Slight</u> MBd Strong
turb	: <u>5.24</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2in.</u>	3in.	4in.	6in.	10in.	12in.	14in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

11/29/99 1550
 1075-107-104
 0001 0001/04/99

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>DUC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1600</u>
Well ID: <u>MW-7</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Hand/bailed	: <u> </u>
Total Depth	: <u>32.19</u> ft.	Peristaltic Pump	: <u> </u>
Water Level	: <u>20.19</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>30.0</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>4.89</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA SX	: <u>24.45</u> gal	Boiler	: <u>X</u>
Actual	: <u>25.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>21.0</u> c	Tint	: Light Medium Dark
Conductivity	: <u>51</u> Umhos/25C	Color	: Colorless Gray Yellow Orange Brown Black Green
pH	: <u>4.91</u> Units	Turbidity	: None Mild Medium Heavy
So3	<u>384</u> ug/l	Odor	: None Slight Mild Strong
turb	<u>111</u>	Description Odor	: Unknown

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael J. [Signature]

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2in.</u>	3in.	4in.	6in.	10in.	12in.	14in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

IMJ HELM LABS

487-281-9187

11/29/1999 10:02

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>DUC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1420</u>
Well ID: <u>MW-8</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>24.95</u> ft.	Peristaltic Pump	: <u> </u>
Water Level	: <u>6.45</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>18.5</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>3.01</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>15.07</u> gal	Boiler	: <u>X</u>
Actual	: <u>16.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>21.5</u> C	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>60</u> μ hos/cm	Color	: Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH	: <u>5.44</u> Units	Turbidity	: <u>Clear</u> Mild Medium Heavy
<u>S03</u>	<u>1.92</u> μ l	Odor	: None <u>Slight</u> Mild Strong
<u>turb</u>	<u>1.62</u>	Description Odor:	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael J.

Signature of Field Representative: _____

Casting Diameter:	1 in.	2 in.	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.941	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OU C</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1400</u>
Well ID: <u>MW-9</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>7.19</u> ft.	Peristaltic Pump	: <u> </u>
Water Level	: <u>30.28</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>23.09</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>3.76</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5K	: <u>18.81</u> gal	Boiler	: <u>X</u>
Actual	: <u>20.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>21.4</u> C	Tint	: Light <u>Medium</u> Dark
Conductivity	: <u>38</u> Urech/25C	Color	: Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH	: <u>5.02</u> Units	Turbidity	: Clear <u>MBd</u> Medium Heavy
So ₃	: <u>1.28</u> mg/l	Odor	: None <u>Strong</u> MBd Strong
turb	: <u>2.98</u>	Description Odor:	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2in</u>	3in.	4in.	6in.	10in.	12in.	14in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OUc</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1440</u>
Well ID: <u>MW-10</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handbailed	: <u> </u>
Total Depth	: <u>30.38</u> ft.	Peristaltic Pump	: <u>X</u>
Water Level	: <u>5.68</u> ft.	Submersible Pump	: <u> </u>
Column Height	: <u>247</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>4.02</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA SX	: <u>20.13</u> gal	Butler	: <u>X</u>
Actual	: <u>22.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>21.7</u> c	Tint	: Light Medium Dark
Conductivity	: <u>40</u> Umhos/25C	Color	: Colorless Gray Yellow Orange Brown Black Green
pH	: <u>4.76</u> Units	Turbidity	: <u>Clear</u> Mild Medium Heavy
So3	: <u>.64</u> mg/l	Odor	: None <u>Slight</u> Mild Strong
turb	: <u>.40</u>	Description Odor	: Unknown

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FORM NO. 100-104

/RTE-100-104

PRINT CASE 1/27/11

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>DU C</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1500</u>
Well ID: <u>MW-11</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter: : <u>2.0</u> in.		Handbailed : _____	
Total Depth : <u>29.35</u> ft.		Peristaltic Pump : _____	
Water Level : <u>4.78</u> ft.		Submersible Pump : <u>X</u>	
Column Height : <u>24.57</u> ft.		Centrifugal Pump : _____	
Column Volume : <u>4.0</u> gal		Other : _____	
EVACUATION		SAMPLING METHOD	
Main EPA 5X : <u>20.0</u> gal		Boiler : <u>X</u>	
Actual : <u>20.0</u> gal		Grab : _____	
GWL Above MSL: <u>-</u> ft.		Submersible Pump : _____	
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature : <u>21.0</u> c		Tint : Light Medium Dark	
Conductivity : <u>900</u> Umho/25C ¹⁰¹⁵ by <u>JK</u>		Color : <u>Clear</u> Gray Yellow Orange Brown Black Green	
pH : <u>5.14</u> Units		Turbidity : <u>Clear</u> Mild Medium Heavy	
So3 : <u>2.56</u> mg/L		Odor : None <u>Slight</u> Mild Strong	
turb : <u>.11</u>		Description Odor: Unknown	

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>(2 in.)</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>ouc</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1510</u>
Well ID: <u>MW-12</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>30.25</u> ft.	Peristaltic Pump	: <u>X</u>
Water Level	: <u>8.77</u> ft.	Submersible Pump	: <u> </u>
Column Height	: <u>21.48</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>3.50</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>17.50</u> gal	Boiler	: <u>X</u>
Actual	: <u>20.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>21.1</u> c	Tint	: Light Medium Dark
Conductivity	: <u>1.75</u> Umho/25C <u>~ 1750 uS/cm</u>	Color	: <u>Colorless</u> Gray Yellow Orange Brown Black Green
pH	<u>X</u> : <u>4.06</u> Units	Turbidity	: <u>Clean</u> Mild Medium Heavy
So ₃	<u>3.81</u> mg/l	Odor	: None <u>Slight</u> Mild Strong
turb	<u>.41</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explosive): Client Maps

Miscellaneous Comments: * checked with ph paper

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.941	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

1076-107-104
 1076-107-104
 1076-107-104

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>DUC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1520</u>
Well ID: <u>MW-13</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>24.85</u> ft.	Peristaltic Pump	: <u> </u>
Water Level	: <u>6.94</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>17.91</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>2.91</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>14.59</u> gal	Boiler	: <u>X</u>
Actual	: <u>16.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>21.0</u> c	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>210</u> Umho/cm	Color	: Colorless <u>Blue</u> Yellow Orange Brown Black Green
pH	: <u>4.07</u> Units	Turbidity	: <u>Clear</u> Mild Medium Heavy
SO ₂	: <u>1.92</u> mg/L	Odor	: None <u>Strong</u> Mild Strong
turb	: <u>.34</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: ph checked with ph paper

Samples Obtained By (Print): Michael J.

Signature of Field Representative: _____

Casing Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.975	8.000

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FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>ouc</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1630</u>
Well ID: <u>MW-14</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter: : <u>2.0</u> in.		Handballed : _____	
Total Depth : <u>30.32</u> ft.		Peristaltic Pump : _____	
Water Level : <u>3.98</u> ft.		Submersible Pump : <u>X</u>	
Column Height : <u>26.34</u> ft.		Centrifugal Pump : _____	
Column Volume : <u>4.29</u> gal		Other : _____	
EVACUATION		SAMPLING METHOD	
Main EPA SX : <u>21.46</u> gal		Butler : <u>X</u>	
Actual : <u>240</u> gal		Grab : _____	
GWL Above MSL: <u>-</u> ft.		Submersible Pump : _____	
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature : <u>19.0</u> c		Tint : Light Medium Dark	
Conductivity : <u>725</u> Umho/cm		Color : Colorless Gray Yellow Orange Brown Black Green	
pH : <u>6.19</u> Units		Turbidity : Clear Mild Medium Heavy	
So ₃ : <u>8.96</u> mg/l		Odor : None Slight Mild Strong	
turb : <u>3.12</u>		Description Odor : Unknown	

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael [Signature]

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2in.</u>	3in.	4in.	6in.	10in.	12in.	14in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FORM 01

SART TECH LABS

/RTE-TR-104

PRINT CENTER/99

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>DUc</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1720</u>
Well ID: <u>OW-4</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handballed	: <u> </u>
Total Depth	: <u>31.33</u> ft.	Peristaltic Pump	: <u>X</u>
Water Level	: <u>5.06</u> ft.	Submersible Pump	: <u> </u>
Column Height	: <u>26.27</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>4.28</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA SX	: <u>21.41</u> gal	Boiler	: <u>X</u>
Actual	: <u>24.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>19.0</u> c	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>115</u> Umhos/25C	Color	: Colorless Light Yellow Orange Brown Black Green
pH	: <u>4.91</u> Units	Turbidity	: Clear <u>MBd</u> Medium Heavy
So ₃	<u>6.40</u> mg/l	Odor	: None <u>Slight</u> MBd Strong
turb	<u>.54</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael J. [Signature]

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.167</u>	0.367	0.653	1.469	4.080	5.875	8.000

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OWC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1720</u>
Well ID: <u>OW-4 DUP</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2.0</u> in.	Handholed	: <u> </u>
Total Depth	: <u>31.33</u> ft.	Peristaltic Pump	: <u>X</u>
Water Level	: <u>5.06</u> ft.	Submersible Pump	: <u> </u>
Column Height	: <u>26.27</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>4.28</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA SX	: <u>21.41</u> gal	Boiler	: <u>X</u>
Actual	: <u>24.0</u> gal	Grab	: <u> </u>
GWL Above MSL:	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>19.0</u> C	Tint	: <u>Light</u> Medium Dark
Conductivity	: <u>115</u> Umho/25C	Color	: Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH	: <u>4.91</u> Units	Turbidity	: Clear <u>MBd</u> Medium Heavy
So3	<u>6.40</u> mg/l	Odor	: None <u>Slight</u> MBd Strong
turb	<u>.54</u>	Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	2 in.	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000

11/29/99 14:00

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>OUC</u>	Contact: <u>Mark Corbett</u>
Project Name: <u>Wells</u>	Date Collected: <u>11/29/99</u>
Address:	Time Collected: <u>1330</u>
Well ID: <u>EQUIP BLANK</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter: : <u>2.0</u> in.		Handballed : _____	
Total Depth : _____ ft.		Peristaltic Pump : _____	
Water Level : _____ ft.		Submersible Pump : _____	
Column Height : _____ ft.		Centrifugal Pump : _____	
Column Volume : _____ gal		Other : _____	
EVACUATION		SAMPLING METHOD	
Main EPA 5X : _____ gal		Ballot : <u>X</u>	
Actual : _____ gal		Grab : _____	
GWL Above MSL: <u>-</u> ft.		Submersible Pump : _____	
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature : <u>24.9</u> c		Tint : <u>Light</u> Medium Dark	
Conductivity : <u>003</u> Umho/cm		Color : <u>Colorless</u> Gray Yellow Orange Brown Black Green	
pH : <u>7.04</u> Units		Turbidity <u>Clear</u> Mild Medium Heavy	
<u>SO3</u> <u>6.64</u>		Odor <u>None</u> Slight Mild Strong	
<u>turb</u> <u>0.03</u>		Description Odor: Unknown	

Well Location: Client Map - Our Map - Other (Explain): Client Maps

Miscellaneous Comments: _____

Samples Obtained By (Print): Michael Jy

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	<u>0.163</u>	0.367	0.633	1.469	4.080	5.875	8.000

PAGE 01

DATE TIME

DATE TIME

October 22, 1999 10:33

CERTIFICATE OF ANALYSIS

RESULTS BY SAMPLE

Page 1

SENT **ORLANDO UTILITIES COMMISSION** ANALYZED
 TO: **WATER QUALITY LABORATORY** BY:
3800 GARDENIA AVENUE
ORLANDO, FL 32839
RICHARD A. DUNHAM
(407)244-8779 FAX 244-8780

PBS&J Analytical Services
 6635 East Colonial Drive
 Orlando, FL 32807

Phone: (407) 277-4443
 Fax: (407) 382-8794

This is to certify that the following samples were analyzed using good laboratory practices to show the following results.

Sample ID: MW#1 Lab ID: **9908351-01** Collected: 08/26/99 18:30:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	21	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	10.8	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.7	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#2 Lab ID: **9908351-02** Collected: 08/26/99 18:40:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	11.1	mg/L	EPA 6010		10/19/99	dm
ALPHA, TOTAL	6.6	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	2.3	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#3 Lab ID: **9908351-03** Collected: 08/26/99 19:10:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	5.0	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	7.0	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.7	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#4 Lab ID: **9908351-04** Collected: 08/26/99 16:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	5.16	mg/L	EPA 6010		10/19/99	dm
ALPHA, TOTAL	2.3	pCi/L	EPA 900.0		09/19/99	cd

October 22, 1999 10:33

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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Sample ID: MW#4Lab ID: **9908351-04**

Collected: 08/26/99 16:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
ALPHA-counting error	1.0	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#5Lab ID: **9908351-05**

Collected: 08/26/99 17:55:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	14	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	6.4	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.8	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#6Lab ID: **9908351-06**

Collected: 08/26/99 16:15:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	6.1	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	3.6	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.3	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#7Lab ID: **9908351-07**

Collected: 08/26/99 16:25:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	4.2	mg/L	EPA 6010		10/13/99	mca
ALPHA, TOTAL	2.1	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.0	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#8Lab ID: **9908351-08**

Collected: 08/26/99 15:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	5.2	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	2.7	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.0	pCi/L	EPA 900.0		09/19/99	cd

October 22, 1999 10:33

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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Sample ID: MW#9Lab ID: **9908351-09**

Collected: 08/26/99 14:30:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	3.9	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	1.8	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	0.9	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#10Lab ID: **9908351-10**

Collected: 08/26/99 14:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	4.4	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	2.2	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.0	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#11Lab ID: **9908351-11**

Collected: 08/26/99 15:25:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	55	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	7.2	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.5	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#12Lab ID: **9908351-12**

Collected: 08/26/99 15:30:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	110	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	34.4	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	3.1	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#13Lab ID: **9908351-13**

Collected: 08/26/99 15:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	15	mg/L	EPA 6010		10/05/99	mca

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**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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Sample ID: MW#13Lab ID: **9908351-13** Collected: 08/26/99 15:50:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
ALPHA, TOTAL	5.1	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.4	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: MW#14Lab ID: **9908351-14** Collected: 08/26/99 17:45:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	8.4	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	6.5	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.5	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: OW#4Lab ID: **9908351-15** Collected: 08/26/99 17:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	7.6	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	1.1	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	0.9	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: OW-4 DUPELab ID: **9908351-16** Collected: 08/26/99 17:00:00

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	7.5	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	2.4	pCi/L	EPA 900.0		09/19/99	cd
ALPHA-counting error	1.1	pCi/L	EPA 900.0		09/19/99	cd

Sample ID: EQIP BLANKLab ID: **9908351-17** Collected: 08/26/99

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
SODIUM-ICP METHOD	5.2	mg/L	EPA 6010		10/05/99	mca
ALPHA, TOTAL	2.8	pCi/L	EPA 900.0		09/19/99	cd

October 22, 1999 10:33

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

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Sample ID: EQIP BLANK

Lab ID: 9908351-17

Collected: 08/26/99

TEST	RESULT	UNITS	METHOD	EXTRACTED	ANALYZED	BY
ALPHA-counting error	1.3	pCi/L	EPA 900.0		09/19/99	cd

Quality Control Comments for PBS&J Workorder Number 9908351

Metals samples were subcontracted to ELAB.

ELAB Environmental Certification #E83079

Sample data qualifiers are reported as outlined in 62-160 F.A.C



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992239

Sample Description:

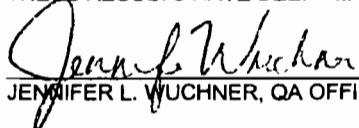
SEC – SURFICIAL AQUIFER MONITORING WELLS

Label: MW #1
Date Sampled: 08/26/99
Time Sampled: 1830
Date Received: 08/27/99
Collected By: M.PATTERSON

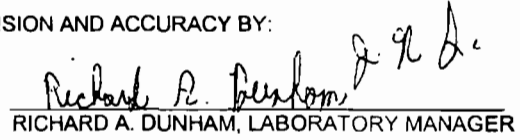
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	1.43	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	0.001	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.329	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	143	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	0.020	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	26.5	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	2.33	mg/L	SM 3111B	0.02		10/08/99	JNG
MAGNESIUM	8.10	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	0.03	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L	EPA 6010	0.2			PBS&J
NICKEL	0.006	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	918	Us	SM2510B	0		08/27/99	MP
TDS	535	mg/L	SM2540C	1		08/31/99	JES
pH	5.05	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	102	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	0.11	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	0.39	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	0.64	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	26.0	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L	EPA 900.0	0 +/- 2.8			PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:



 JENNIFER L. WUCHNER, QA OFFICER



 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ODC</u>	Contact: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1830</u>
Well ID: <u>Mu-1</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handbailed : _____
Total Depth : <u>24.95</u> ft.	Peristaltic Pump : _____
Water Level : <u>8.17</u> ft.	Submersible Pump : <u>X</u>
Column Height : <u>16.78</u> ft.	Centrifugal Pump : _____
Column Volume : <u>3.73</u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u>1365</u> gal	Bailer : <u>X</u>
Actual : <u>20.0</u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>26.1</u> C	Tint : <u>Light</u> Medium Dark
Conductivity : <u>884</u> Umhos/25C	Color : Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH : <u>5.05</u> Units	Turbidity : Clear <u>Mild</u> Medium Heavy
<u>SD</u> = <u>.64</u>	Odor : None <u>Slight</u> Mild Strong
	Description Odor : <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992240

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

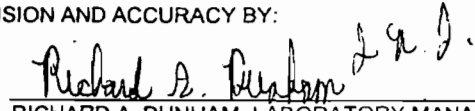
Label: MW #2
Date Sampled: 08/26/99
Time Sampled: 1840
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.085	mg/L	SM 3113B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.195	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	114	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	0.003	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	1.14	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	2.66	mg/L	SM 3111B	0.02		10/08/99	JNG
MAGNESIUM	3.00	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L	EPA 6010	0.2			PBS&J
NICKEL	BDL	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	611	uS	SM2510B	0		08/27/99	MP
TDS	371	mg/L	SM2540C	1		08/31/99	JES
pH	6.21	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	11.4	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	0.05	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	11.7	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	1.28	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	26	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L	EPA 900.0	0 +/- 2.8			PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

BEST AVAILABLE COPY

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ODC</u>	Contact: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1840</u>
Well ID: <u>MW-2</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handballed : _____
Total Depth : <u>3263</u> ft.	Peristaltic Pump : <input checked="" type="checkbox"/>
Water Level : <u>4.39</u> ft.	Submersible Pump : _____
Column Height : <u>28.24</u> ft.	Centrifugal Pump : _____
Column Volume : <u>460</u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u>23.0</u> gal	Bailer : <input checked="" type="checkbox"/>
Actual : <u>250</u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>23.9</u> C	Tint : <input type="checkbox"/> Light <input type="checkbox"/> Medium <input type="checkbox"/> Dark
Conductivity : <u>592</u> Umhos/25C	Color : <input checked="" type="checkbox"/> Colorless <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Orange <input type="checkbox"/> Brown <input type="checkbox"/> Black <input type="checkbox"/> Green
pH : <u>6.21</u> Units	Turbidity : <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Mild <input type="checkbox"/> Medium <input type="checkbox"/> Heavy
<u>503</u> <u>1.28</u>	Odor : <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Mild <input type="checkbox"/> Strong
	Description Odor : <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992241

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

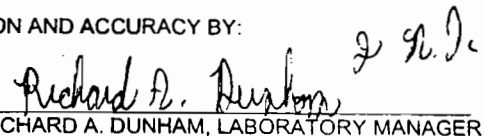
Label: MW #3
Date Sampled: 08/26/99
Time Sampled: 1500
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.450	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	0.001	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.068	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	28.6	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.49	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	1.26	mg/L	SM 3111B	0.02		10/08/99	JNG
MAGNESIUM	2.04	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	BDL	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	190	Us	SM2510B	0		08/27/99	MP
TDS	126	mg/L	SM2540C	1		08/31/99	JES
pH	6.06	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	6.93	mg/L	EPA 300.0	0.1		09/17/99	JNW
NITRATE	BDL	mg/L	EPA 300.0	0.10		09/17/99	JLW
PHOSPHATE TOTAL	0.22	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	0.40	mg/L	EPA 300.0	0.06		09/17/99	JLW
SULFITE	1.3	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	3.1	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

BEST AVAILABLE COPY

FIELD SHEET FOR...

Client: <u> OUC </u>	Contract: _____
Project Name: <u> SEC </u>	Date Collected: <u> 8-26-99 </u>
Address: <u> Orlando, FL </u>	Time Collected: <u> 1910 </u>
Well ID: <u> MW-3 </u>	# Containers: <u> 3 </u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u> 2 </u> in.	Handballed : _____
Total Depth : <u> 30.37 </u> ft.	Peristaltic Pump : _____
Water Level : <u> 5.14 </u> ft.	Submersible Pump : <u> X </u>
Column Height : <u> 25.23 </u> ft.	Centrifugal Pump : _____
Column Volume : <u> 4.11 </u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u> 20.55 </u> gal	Baller : <u> X </u>
Actual : <u> 25.0 </u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u> 24.5 </u> C	Tint : <u> Light </u> Medium Dark
Conductivity : <u> 190 </u> Umhos/25C	Color : Colorless <u> Gray </u> Yellow Orange Brown Black Green
pH : <u> 6.06 </u> Units	Turbidity : Clear <u> Mild </u> Medium Heavy
<u> SO3 = 2.56 </u>	Odor : <u> None </u> Slight Mild Strong
	Description Odor : <u> Unknown </u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992242

Sample Description:

SEC - SURFICIAL AQUIFER MONITORING WELLS

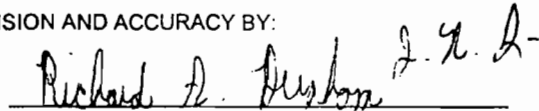
Label: MW #4
Date Sampled: 08/26/99
Time Sampled: 1650
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.270	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.033	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	1.22	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.50	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	1.07	mg/L	SM 3111B	0.02		10/08/99	JNG
MAGNESIUM	0.95	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/29/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.001	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	12	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	60	Us	SM2510B	0		08/27/99	MP
TDS	55	mg/L	SM2540C	1		08/31/99	JES
pH	4.77	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	9.8	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	0.70	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	2.5	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	1.0	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>DDC</u>	Cont: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1650</u>
Well ID: <u>MW-4</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handballed : _____
Total Depth : <u>25.15</u> ft.	Peristaltic Pump : _____
Water Level : <u>489</u> ft.	Submersible Pump : <u>X</u>
Column Height : <u>20.26</u> ft.	Centrifugal Pump : _____
Column Volume : <u>3.30</u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u>16.5</u> gal	Baller : <u>X</u>
Actual : <u>20.0</u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>23.7</u> C	Tint : Light Medium Dark
Conductivity : <u>59</u> Umhos/25C	Color : Colorless Gray Yellow Orange Brown Black Green
pH : <u>4.77</u> Units	Turbidity : <u>Clear</u> Mild Medium Heavy
SD3 = <u>2.56</u>	Odor : None <u>Slight</u> Mild Strong
	Description Odor : <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992243

Sample Description:

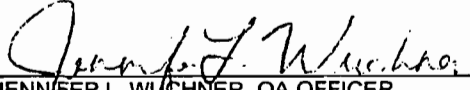
SEC – SURFICIAL AQUIFER MONITORING WELLS

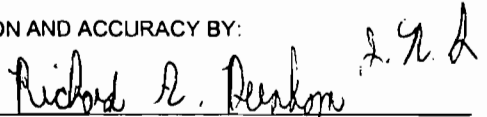
Label: MW #5
Date Sampled: 08/26/99
Time Sampled: 1755
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	1.320	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.092	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	30.10	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	1.82	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	12.2	mg/L	SM 3111B	0.02		10/08/99	JNG
MAGNESIUM	5.97	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	BDL	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	376	Us	SM2510B	0		08/26/99	MP
TDS	251	mg/L	SM2540C	1		08/31/99	JES
pH	4.79	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	34.6	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	124.5	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	5.8	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	2.0	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

BEST AVAILABLE COPY

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ODC</u>	Contact: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1255</u>
Well ID: <u>MW-5</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handballed : _____
Total Depth : <u>32-88</u> ft.	Peristaltic Pump : <u>X</u>
Water Level : <u>6-34</u> ft.	Submersible Pump : _____
Column Height : <u>26-54</u> ft.	Centrifugal Pump : _____
Column Volume : <u>4-32</u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u>21-6</u> gal	Baller : <u>X</u>
Actual : <u>25-0</u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>23.6</u> C	Tint : <u>Light</u> Medium Dark
Conductivity : <u>376</u> Umhos/25C	Color : Colorless <u>Gray</u> Yellow Orange Brown Black Green
pH : <u>4.79</u> Unlts	Turbidity : Clear <u>Mild</u> Medium Heavy
SOD : <u>S-76</u>	Odor : None <u>Slight</u> Mild Strong
	Description Odor : <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992244

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

Label: MW #6
Date Sampled: 08/26/99
Time Sampled: 1615
Date Received: 08/27/99
Collected By: M.PATTERSON

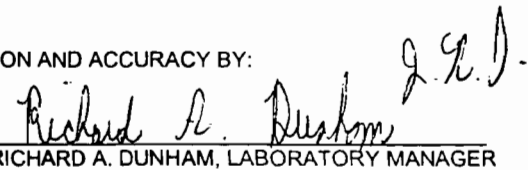
PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	10.40	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.032	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	1.1	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.53	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	0.84	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	0.71	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	0.002	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	15	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	62	Us	SM2510B	0		08/26/99	MP
TDS	69	mg/L	SM2540C	1		08/31/99	JES
pH	4.59	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	12.3	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	0.36	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE		mg/L	SM 4500 SO3	1.0			MP
TURBIDITY	25.0	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:



 JENNIFER L. WUCHNER, QA OFFICER



 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

BEST AVAILABLE COPY

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ODC</u>	Cont: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1615</u>
Well ID: <u>MW-6</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2</u> in.	Handballed	: _____
Total Depth	: <u>32.61</u> ft.	Peristaltic Pump	: _____
Water Level	: <u>6.06</u> ft.	Submersible Pump	: <u>X</u>
Column Height	: <u>26.55</u> ft.	Centrifugal Pump	: _____
Column Volume	: <u>432</u> gal	Other	: _____
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>21.6</u> gal	Bailer	: <u>X</u>
Actual	: <u>25.0</u> gal	Grab	: _____
GWL Above MSL	: _____ ft.	Submersible Pump	: _____
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>25.1</u> C	Tint	: Light Medium Dark
Conductivity	: <u>62</u> Umhos/25C	Color	: Colorless Gray Yellow Orange Brown Black Green
pH	: <u>4.59</u> Units	Turbidity	: <u>Clear</u> Mild Medium Heavy
		Odor	: None <u>Slight</u> Mild Strong
		Description Odor	: Unknown

Well Location: Client Map - Our Map - Other (Explain): _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Castling Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992245

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

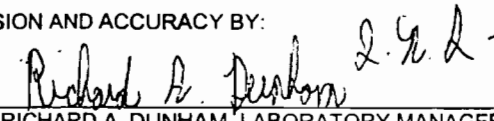
Label: MW #7
Date Sampled: 08/26/99
Time Sampled: 1625
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	2.20	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.037	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	4.0	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.30	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	1.00	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	0.54	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	18	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	54	Us	SM2510B	0		08/26/99	MP
TDS	59	mg/L	SM2540C	1		08/31/99	JES
pH	4.92	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	8.0	mg/L	EPA 300.0	0.1		09/17/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		09/17/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	1.10	mg/L	EPA 300.0	0.06		09/17/99	JLW
SULFITE	2.6	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	19	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

Comp QAP #870156G
 FDOH LAB ID # E53566

Client: <u>OPC</u>	Contact:
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1625</u>
Well ID: <u>MW-7</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2</u> in.	Handballed	: <u> </u>
Total Depth	: <u>32.19</u> ft.	Peristaltic Pump	: <u>X</u>
Water Level	: <u>1.33</u> ft.	Submersible Pump	: <u> </u>
Column Height	: <u>30.86</u> ft.	Centrifugal Pump	: <u> </u>
Column Volume	: <u>5.03</u> gal	Other	: <u> </u>
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>25.15</u> gal	Bailer	: <u>X</u>
Actual	: <u>28.0</u> gal	Grab	: <u> </u>
GWL Above MSL	: <u> </u> ft.	Submersible Pump	: <u> </u>
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>22.9</u> C	Tint	: Light Medium Dark
Conductivity	: <u>54</u> Umhos/25C	Color	: Colorless Gray Yellow Orange Brown Black Green
pH	: <u>4.92</u> Units	Turbidity	: Clear <u>Mild</u> Medium Heavy
<u>S03</u>	<u>3.20</u>	Odor	: <u>None</u> Slight Mild Strong
		Description Odor	: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992246

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

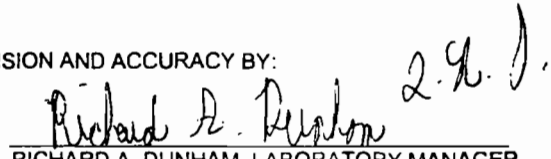
Label: MW #8
Date Sampled: 08/26/99
Time Sampled: 1500
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.280	mg/L	SM 3113B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	BDL	mg/L	SM 3113B	0.001		09/07/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	0.83	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.39	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	0.47	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	0.94	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	20	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	59	Us	SM2510B	0		08/26/99	MP
TDS	53	mg/L	SM2540C	1		08/31/99	JES
pH	5.70	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	9.4	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	2.28	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	1.28	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	0.75	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ODC</u>	Contact: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1430</u>
Well ID: <u>MW-8</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handballed : _____
Total Depth : <u>24.95</u> ft.	Peristaltic Pump : <u>X</u>
Water Level : <u>6.44</u> ft.	Submersible Pump : _____
Column Height : <u>18.51</u> ft.	Centrifugal Pump : _____
Column Volume : <u>3.01</u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA SX : <u>15.0</u> gal	Bailer : <u>X</u>
Actual : <u>16.0</u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>24.4</u> C	Tint : <u>Light</u> Medium Dark
Conductivity : <u>59</u> Umhos/25C	Color : <u>Colorless</u> Gray Yellow Orange Brown Black Green
pH : <u>5.70</u> Units	Turbidity : <u>Clear</u> Mild Medium Heavy
SO ₃ = <u>1.28</u>	Odor : None <u>Slight</u> Mild Strong
	Description Odor : <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992247

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

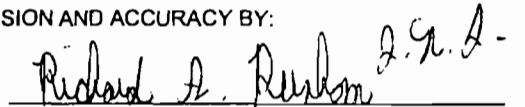
Label: MW #9
Date Sampled: 08/26/99
Time Sampled: 1430
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.488	mg/L	SM 3113B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.007	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	0.08	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.38	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	0.40	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	0.84	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	BDL	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	40	Us	SM2510B	0		08/26/99	MP
TDS	51	mg/L	SM2540C	1		08/31/99	JES
pH	4.98	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	5.60	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	3.81	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	1.3	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	2.5	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


JENNIFER L. WUCHNER, QA OFFICER


RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ODC</u>	Contact: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1450</u>
Well ID: <u>MW-9</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handbailed : _____
Total Depth : <u>30.28</u> ft.	Peristaltic Pump : _____
Water Level : <u>7.75</u> ft.	Submersible Pump : <u>X</u>
Column Height : <u>22.33</u> ft.	Centrifugal Pump : _____
Column Volume : <u>363</u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u>18.15</u> gal	Bailer : <u>X</u>
Actual : <u>20.0</u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>24.7</u> C	Tint <u>Light</u> Medium Dark
Conductivity : <u>40</u> Umhos/25C	Color <u>Colorless</u> Gray Yellow Orange Brown Black Green
pH : <u>4.98</u> Units	Turbidity <u>Clear</u> Mild Medium Heavy
<u>503</u> = <u>1.28</u>	Odor : None <u>Slight</u> Mild Strong
	Description Odor: <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain): _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
500 South Orange Avenue
Orlando, Florida 32801
Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992248

Sample Description:

SEC - SURFICIAL AQUIFER MONITORING WELLS

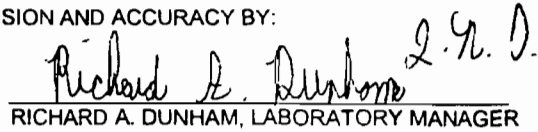
Label: MW #10
Date Sampled: 08/26/99
Time Sampled: 1450
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.23	mg/L	SM 3113B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.007	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	0.21	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.39	mg/L	SM 3111B	0.02		09/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	0.37	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	0.65	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	4	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	42	Us	SM2510B	0		08/26/99	MP
TDS	40	mg/L	SM2540C	1		08/31/99	JES
pH	4.80	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	6.08	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	2.19	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	0.64	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	0.30	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u> OUC </u>	Cont: _____
Project Name: <u> SEC </u>	Date Collected: <u> 8-26-99 </u>
Address: <u> Orlando, FL </u>	Time Collected: <u> 1500 </u>
Well ID: <u> MU-10 </u>	# Containers: <u> 3 </u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u> 2 </u> in.	Handballed : _____
Total Depth : <u> 30.38 </u> ft.	Peristaltic Pump : _____
Water Level : <u> 5.82 </u> ft.	Submersible Pump : <u> X </u>
Column Height : <u> 24.52 </u> ft.	Centrifugal Pump : _____
Column Volume : <u> 4.0 </u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u> 20.0 </u> gal	Bailer : <u> X </u>
Actual : <u> 20.0 </u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u> 22.4 </u> C	Tint : Light Medium Dark
Conductivity : <u> 42 </u> Umhos/25C	Color : <u> Colorless </u> Gray Yellow Orange Brown Black Green
pH : <u> 4.80 </u> Units	Turbidity <u> Clear </u> Mild Medium Heavy
<u> 503 </u> , <u> .64 </u>	Odor : None <u> Slight </u> Mild Strong
	Description Odor : <u> Unknown </u>

Well Location: Client Map - Our Map - Other (Explain): _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992249

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

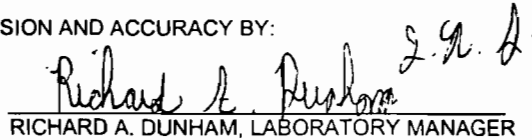
Label: MW #11
Date Sampled: 08/26/99
Time Sampled: 1525
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	1.46	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.53	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	76.2	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	2.50	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	15.2	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	4.55	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.003	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	12	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	910	Us	SM2510B	0		08/26/99	MP
TDS	628	mg/L	SM2540C	1		08/31/99	JES
pH	5.22	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	17.2	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	BDL	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	1.9	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	5.5	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/L					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ODC</u>	Contact:
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected:
Well ID: <u>MW-11</u>	# Containers <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter:	: <u>2</u> in.	Handballed	: _____
Total Depth	: <u>29.35</u> ft.	Peristaltic Pump	: _____
Water Level	: <u>4.73</u> ft.	Submersible Pump	: _____
Column Height	: <u>24.62</u> ft.	Centrifugal Pump	: _____
Column Volume	: <u>4.01</u> gal	Other	: _____
EVACUATION		SAMPLING METHOD	
Main EPA 5X	: <u>20.05</u> gal	Baller	: _____
Actual	: <u>25.0</u> gal	Grab	: _____
GWL Above MSL	: _____ ft.	Submersible Pump	: _____
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature	: <u>23.5</u> C	Tint	: Light Medium Dark
Conductivity	: <u>910</u> Umhos/25C	Color	: Colorless Gray Yellow Orange Brown Black Green
pH	: <u>5.22</u> Unlts	Turbidity	: Clear Mild Medium Heavy
<u>SD 3</u>	<u>1.92</u>	Odor	: None Slight Mild Strong
		Description Odor	: Unknown

Well Location: Client Map - Our Map - Other (Explain): _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992250

Sample Description:

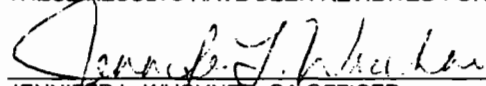
SEC – SURFICIAL AQUIFER MONITORING WELLS

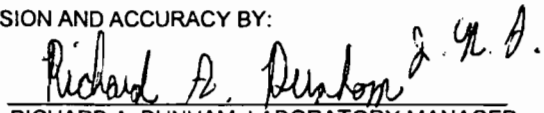
Label: MW #12
Date Sampled: 08/26/99
Time Sampled: 1530
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	13.60	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.22	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	224.0	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	4.00	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	48.5	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	8.36	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	0.020	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.004	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	14	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	2304	Us	SM2510B	0		08/26/99	MP
TDS	1458	mg/L	SM2540C	1		08/31/99	JES
pH	4.15	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	262	mg/L	EPA 300.0	0.1		08/28/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/28/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/19/99	JNG
SULFATE	809.0	mg/L	EPA 300.0	0.06		08/28/99	JLW
SULFITE	3.20	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	4.1	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/l					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u> DUC </u>	Contact: _____
Project Name: <u> SEC </u>	Date Collected: <u> 8-26-99 </u>
Address: <u> Orlando, FL </u>	Time Collected: <u> 1530 </u>
Well ID: <u> MV-12 </u>	# Containers: <u> 3 </u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u> 2 </u> in.	Handballed : _____
Total Depth : <u> 30.25 </u> ft.	Peristaltic Pump : _____
Water Level : <u> 8.61 </u> ft.	Submersible Pump : <u> X </u>
Column Height : <u> 21.64 </u> ft.	Centrifugal Pump : _____
Column Volume : <u> 3.52 </u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u> 17.60 </u> gal	Baller : <u> X </u>
Actual : <u> 20.0 </u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u> 23.3 </u> C	Tint : <u> Light </u> Medium Dark
Conductivity : <u> 1.89 </u> Umhos/25C	Color : Colorless <u> Gray </u> Yellow Orange Brown Black Green
pH : <u> 4.15 </u> Units	Turbidity : Clear <u> Mild </u> Medium Heavy
<u> SO₄ = 3.20 </u>	Odor : None <u> Slight </u> Mild Strong
	Description Odor : <u> Unknown </u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
500 South Orange Avenue
Orlando, Florida 32801
Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992251

Sample Description:

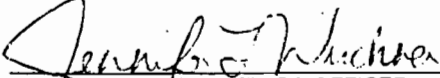
SEC – SURFICIAL AQUIFER MONITORING WELLS

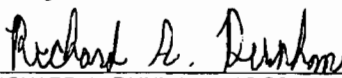
Label: MW #13
Date Sampled: 08/26/99
Time Sampled: 1550
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	1.36	mg/L	SM 3111B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.064	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	6.87	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	1.08	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	1.71	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	3.53	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	0.001	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	20	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	219	Us	SM2510B	0		08/26/99	MP
TDS	125	mg/L	SM2540C	1		08/31/99	JES
pH	4.17	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	36.1	mg/L	EPA 300.0	0.1		08/28/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/28/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	23.9	mg/L	EPA 300.0	0.06		08/28/99	JLW
SULFITE	1.92	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	0.40	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/l					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER

 J.A.D.
 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>ODC</u>	Contract: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1550</u>
Well ID: <u>MW-13</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handballed : _____
Total Depth : <u>24.85</u> ft.	Peristaltic Pump : <u>X</u>
Water Level : <u>6.59</u> ft.	Submersible Pump : _____
Column Height : <u>18.26</u> ft.	Centrifugal Pump : _____
Column Volume : <u>2.97</u> gal	Other : _____
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u>14.85</u> gal	Baller : <u>X</u>
Actual : <u>15.0</u> gal	Grab : _____
GWL Above MSL : _____ ft.	Submersible Pump : _____
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>25.1</u> C	Tint <u>Light</u> Medium Dark
Conductivity : <u>219</u> Umhos/25C	Color : Colorless <u>Grp</u> Yellow Orange Brown Black Green
pH : <u>4.17</u> Units	Turbidity : Clear <u>Mild</u> Medium Heavy
<u>SDS</u> <u>1.92</u>	Odor : None <u>Slight</u> Mild Strong
	Description Odor : <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992252

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

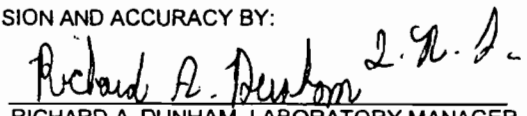
Label: MW #14
Date Sampled: 08/26/99
Time Sampled: 1745
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.180	mg/L	SM 3113B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.160	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	117	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.27	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	1.03	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	5.42	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/02/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	BDL	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	714	Us	SM2510B	0		08/26/99	MP
TDS	491	mg/L	SM2540C	1		08/31/99	JES
pH	6.17	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	22.7	mg/L	EPA 300.0	0.1		08/28/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/28/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	39.3	mg/L	EPA 300.0	0.06		08/30/99	JLW
SULFITE	7.04	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	6.8	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/l					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

BEST AVAILABLE COPY

FIELD SHEET FOR MONITOR WELL COLLECTION

Client: <u>ODC</u>	Contract: _____
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1745</u>
Well ID: <u>MU-14</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS		WELL EVALUATION METHOD	
Diameter: : <u>2</u> in.		Handballed : _____	
Total Depth : <u>30.32</u> ft.		Peristaltic Pump : _____	
Water Level : <u>3.41</u> ft.		Submersible Pump : <u>X</u>	
Column Height : <u>26.88</u> ft.		Centrifugal Pump : _____	
Column Volume : <u>4.38</u> gal		Other : _____	
EVACUATION		SAMPLING METHOD	
Main EPA 5X : <u>269</u> gal		Bailer : <u>X</u>	
Actual : <u>250</u> gal		Grab : _____	
GWL Above MSL : _____ ft.		Submersible Pump : _____	
FIELD PARAMETER		SAMPLE APPEARANCE	
Temperature : <u>26.1</u> C		Tint : <u>Light</u> Medium Dark	
Conductivity : <u>714</u> Umhos/25C		Color : Colorless <u>Gray</u> Yellow Orange Brown Black Green	
pH : <u>6.17</u> Units		Turbidity : Clear <u>Mild</u> Medium Heavy	
<u>SO3</u> = <u>7.04</u>		Odor : None <u>Slight</u> Mild Strong	
		Description Odor : <u>Unknown</u>	

Well Location: Client Map - Our Map - Other (Explain): _____

Miscellaneous Comments: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2 in.	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 10/14/99
OUC Log #: WQL992253

Sample Description:

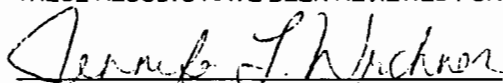
SEC – SURFICIAL AQUIFER MONITORING WELLS

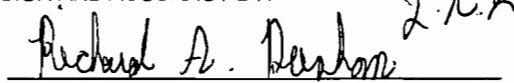
Label: MW #OW-4
Date Sampled: 08/26/99
Time Sampled: 1700
Date Received: 08/27/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		09/03/99	JNG
ALUMINUM	0.350	mg/L	SM 3113B	0.003		09/29/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		09/13/99	JNG
BARIUM	0.08	mg/L	SM 3113B	0.001		09/22/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		09/07/99	JNG
CALCIUM	10.10	mg/L	SM 3111B	0.1		10/04/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		09/02/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		09/08/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		09/01/99	JNG
IRON	0.90	mg/L	SM 3111B	0.02		09/01/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		10/01/99	JNG
POTASSIUM	1.89	mg/L	SM 3111B	0.02		09/08/99	JNG
MAGNESIUM	1.13	mg/L	SM 3111B	0.02		10/04/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		09/29/99	JNG
MOLYBDENUM	BDL	mg/L	SM 3113B	0.002		09/27/99	JNG
SODIUM		mg/L					PBS&J
NICKEL	BDL	mg/L	SM31113B	0.001		09/09/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		09/01/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		09/17/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		09/02/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		08/27/99	JNG
SPECIFIC COND.	120	Us	SM 2510B	0		08/26/99	MP
TDS	109	mg/L	SM2540C	1		08/31/99	JES
pH	4.83	pH units	SM 4500 HB	0		08/26/99	MP
CHLORIDE	11.3	mg/L	EPA 300.0	0.1		08/27/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		08/27/99	JLW
PHOSPHATE TOTAL	0.05	mg/L	EPA 300.0	0.05		09/16/99	JNG
SULFATE	16.40	mg/L	EPA 300.0	0.06		08/27/99	JLW
SULFITE	7.04	mg/L	SM 4500 SO3	1.0		08/26/99	MP
TURBIDITY	5.0	NTU	EPA 180.1	0.01		08/27/99	JNG
GROSS ALPHA (TOTAL)		pCi/l					PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER

 *L.A.H.*
 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR MONITORING WELL COLLECTION

Client: <u>ORC</u>	Contact:
Project Name: <u>SEC</u>	Date Collected: <u>8-26-99</u>
Address: <u>Orlando, FL</u>	Time Collected: <u>1700</u>
Well ID: <u>DW-4</u>	# Containers: <u>3</u>

WELL SPECIFICATIONS	WELL EVALUATION METHOD
Diameter: : <u>2</u> in.	Handballed : <u> </u>
Total Depth : <u>445</u> ft.	Peristaltic Pump : <u>X</u>
Water Level : <u>31.33</u> ft.	Submersible Pump : <u> </u>
Column Height : <u>26.88</u> ft.	Centrifugal Pump : <u> </u>
Column Volume : <u>438</u> gal	Other : <u> </u>
EVACUATION	SAMPLING METHOD
Main EPA 5X : <u>21.9</u> gal	Bailer : <u>X</u>
Actual : <u>25.0</u> gal	Grab : <u> </u>
GWL Above MSL : <u> </u> ft.	Submersible Pump : <u> </u>
FIELD PARAMETER	SAMPLE APPEARANCE
Temperature : <u>22.9</u> C	Tint : Light Medium Dark
Conductivity : <u>120</u> Umhos/25C	Color : Colorless Gray Yellow Orange Brown Black Green
pH : <u>4.83</u> Units	Turbidity : Clear Mild Medium Heavy
<u>S03</u> <u>7.04</u>	Odor : None Slight Mild Strong
	Description Odor : <u>Unknown</u>

Well Location: Client Map - Our Map - Other (Explain) : _____

Miscellaneous Comments: DUP WELL OW 4 AT SAME TIME
SAMPLED WELL OW-4

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	2in.	3in.	4in.	6in	10in	12in	14in
Volume Gal/Ft:	0.041	0.163	0.367	0.653	1.469	4.080	5.875	8.000

ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

BEST AVAILABLE COPY

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: SEC-Monitoring Wells
Address: 500 S. ORANGE AVE.
City, State, Zip: ORLANDO, FLA. 32802
Samplers:

Run #99081027

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Corro			
	9/26/99	1830	MW-1	✓		3	General, Metals Gross Alpha (Total)	WQL 992239
		1840	MW-2	✓		3	" "	WQL 2240
		1910	MW-3	✓	✓	3	" "	WQL 2241
	✓	1650	MW-4	✓	✓	3	" "	WQL 2242
		1755	MW-5	✓	✓	3	" "	WQL 2243
		1615	MW-6	✓	✓	3	" "	WQL 2244
		1625	MW-7	✓	✓	3	" "	WQL 2245
		1500	MW-8	✓	✓	3	" "	WQL 2246
		1430	MW-9	✓	✓	3	" "	WQL 2247
	✓	1450	MW-10	✓	✓	3	" "	WQL 2248

1. Relinquished by:	Date	Time
<i>M. T. [Signature]</i>	9-27-99	11:05A
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
Received by:	Date	Time

Remarks: BOTTLE LOT NO. 51X/L50007-OUC
COOLER NO. 23, 22, 11

Received in Laboratory by:	Date	Time
<i>J. Gray</i>	8/27/99	11:05

Kit prepared by *J. Gray*
8/17/99

UTILITIES COMMISSION WATER QUALITY LAB
CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: SEC-Monitoring Wells
Address: 500 S. ORANGE AVE.
City, State; Zip: ORLANDO, FLA. 32802
Samplers:

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	8/26/99	1525	MW-11	✓		3	General, Metals Gross Alpha Total	WQL 992249
		1530	MW-12	✓		1	" "	WQL 2250
		1530	MW-13	✓		1	" "	WQL 2251
		1745	MW-14	✓		1	" "	WQL 2252
		1706	OW-4	✓		1	" "	WQL 2253
		1700	DUP OW-4	✓		1	" "	WQL 2254
			EQUI BECAL	✓		1	" "	WQL 992254B
								WQL
								WQL
								WQL

Relinquished by: <i>[Signature]</i>	Date: 8/27/99	Time: 11:05A
Received by:	Date:	Time:

5. Relinquished by:	Date:	Time:
6. Received by:	Date:	Time:

Relinquished by:	Date:	Time:
Received by:	Date:	Time:

Remarks: BOTTLE LOT NO. - 51X1L S0007-006
COOLER NO. - 23, 22, 11
Kit prepared by y.l 8/17/99

Received in laboratory by: <i>[Signature]</i>	Date: 8/27/99	Time: 11:05
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ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC ENVIRONMENTAL
Project Name: SEC-Production WellField Pipeline
Address: 500 S. ORANGE AVE.
City, State: Zip ORLANDO, FLA. 32802
Samplers: _____

Run # 99081033

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	<i>8/29/99</i>	<i>950</i>	<i>Production WellField-Pipeline</i>	<input checked="" type="checkbox"/>		<i>3</i>	<i>General Metals Gross Alpha (Total)</i>	<i>wql 992260</i>
			<i>ph 7.74</i>					<i>wql</i>
			<i>temp 24.8</i>					<i>wql</i>
			<i>cond 360</i>					<i>wql</i>
								<i>wql</i>
								<i>wql</i>
								<i>wql</i>
								<i>wql</i>
								<i>wql</i>
								<i>wql</i>
								<i>wql</i>

1. Relinquished by: <i>[Signature]</i>	Date <i>8/30</i>	Time <i>14:30</i>
2. Received by:	Date	Time

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by:	Date	Time

Received in laboratory by: <i>[Signature]</i>	Date <i>8/30/99</i>	Time <i>14:30</i>
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Remarks: BOTTLE LOT NO. - 3x1L SQ007-0VC
COOLER NO. #12
Kit prepared by
J. 8/17/99

Orlando Utilities Commission
 P.O. Box 3193
 Orlando, Florida 32802
 Phone: 24-8779 / Fax: 24-8780

Client Name: OUC ENVIRONMENTAL
 Project Name: SEC- Makeup Water Supply Pond
 Address: 500 S. ORANGE AVE.
 City, State, Zip: ORLANDO, FLA. 32802
 Samplers:

Run # 99081032

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
	8/29/99	1040	Makeup Water Supply Pond	✓		3	General Metals Gross Alpha-Radium (total) ph = 7.32 Temp = 24.2 Lead = 630	992259
								W
								W
								WQ
								WQ
								WQ
								WQ
								WQ
								WQ
								WQ
								WQ

Requisitioned by: <i>M. T...</i>	Date: 8/30	Time: 2:50 PM
Received by:	Date:	Time:

5. Requested by:	Date:	Time:
6. Received by:	Date:	Time:

Requisitioned by:	Date:	Time:
Received by:	Date:	Time:

Received in laboratory by: <i>John Gray</i>	Date: 8/30/99	Time: 14:30
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Remarks: BOTTLE LOT NO. - 3, 1L 50009-000
 COOLER NO. - #20
 Kit prepared by *g2* 8/17/99

**ORLANDO UTILITIES COMMISSION WATER QUALITY LAB
CHAIN OF CUSTODY REPORT**

2 of 2

Orlando Utilities Commission
P.O. Box 3193
Orlando, Florida 32802
Phone: 244-8779 / Fax: 244-8780

Client Name: OUC
Project Name: SEC ENVIRONMENTAL
Address: _____
City, State, Zip: _____
Samplers: _____

Station Number	Sampling		Station ID	Sample Type		# of Containers	Analysis Required	Lab Sample ID
	Date	Time		Grab	Comp			
11	8/26/99	1525	MW-11	✓		2	GROSS ALPHA SODIUM	0908351 WQL - 11
12		1530	MW-12	✓		2		WQL 12
13		1550	MW-13	✓		2		WQL -13
14		1745	MW-14	✓		2		WQL 14
15		1700	OW-4	✓		2		WQL 15
16		1700	OW-4 DUPE	✓		2		WQL 16
17	✓	—	EPIP BLANK	✓				WQL 17
								WQL
								WQL
								WQL

1. Relinquished by: <i>R. Dunham</i>	Date 8/31/99	Time 0800
2. Received by: <i>Paul Malone</i>	Date 8/24/99	Time 8AM

5. Relinquished by:	Date	Time
6. Received by:	Date	Time

3. Relinquished by:	Date	Time
4. Received by: <i>L. Crosby</i>	Date 8/31	Time 1510

Remarks: Sodium Samples
preserved in lab

Received in laboratory by:	Date	Time
----------------------------	------	------



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991345

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

Label: MW #1
Date Sampled: 06/06/99
Time Sampled: 1530
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	1.61	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.336	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	167	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	0.001	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.003	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	0.020	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	1.10	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	1.99	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	7.86	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	0.05	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.005	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	27.0	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.024	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.004	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG



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Date: 07/13/99
OUC Log #: WQL991345

Sample Description:

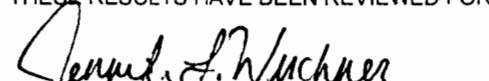
SEC – SURFICIAL AQUIFER MONITORING WELLS

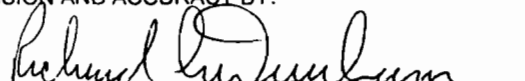
Label: MW #1
Date Sampled: 06/06/99
Time Sampled: 1530
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	1.61	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.336	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	167	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	0.001	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.003	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	0.020	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	1.10	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	1.99	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	7.86	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	0.05	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.005	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	27.0	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.024	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.004	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	946	Us	SM2510B	0		06/06/99	MP
TDS	621	mg/L	SM2540C	1		06/09/99	JES
pH	5.68	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	106	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.35	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	BDL	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	1.28	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	48	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	2.8	pCi/L	EPA 900.0	0 +/- 2.8		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



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Date: 07/13/99
OUC Log #: WQL991346

Sample Description:

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Label: MW #2
Date Sampled: 06/06/99
Time Sampled: 1600
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.533	mg/L	SM 3113B	0.003		06/21/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.239	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	92	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.003	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	7.25	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	3.48	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	6.11	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	0.02	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.004	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	18.0	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.012	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.002	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	489	uS	SM2510B	0		06/06/99	MP
TDS	324	mg/L	SM2540C	1		06/09/99	JES
pH	6.09	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	20.2	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.22	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	41.7	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	2.56	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	18	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	3.6	pCi/L	EPA 900.0	0 +/- 2.8		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


JENNIFER L. WUCHNER, QA OFFICER


RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



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Page: Page 1 of 2
 Date: 07/13/99
 OUC Log #: WQL991348

Sample Description:

SEC - SURFICIAL AQUIFER MONITORING WELLS

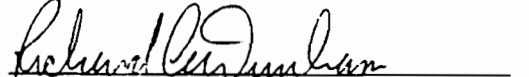
Label: MW #3
 Date Sampled: 06/06/99
 Time Sampled: 1500
 Date Received: 06/07/99
 Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.571	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	0.001	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.246	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	98.7	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.001	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	6.00	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	3.61	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	6.14	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	0.02	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.005	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	5.8	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.003	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.002	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	10	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	115	Us	SM2510B	0		06/06/99	MP
TDS	64	mg/L	SM2540C	1		06/09/99	JES
pH	5.21	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	7.44	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.22	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	1.25	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	3.2	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	1.5	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	0.3	pCi/L	EPA 900.0	0 +/- 0.6		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



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Date: 07/13/99
OUC Log #: WQL991349

Sample Description:

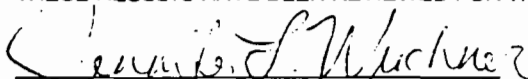
SEC - SURFICIAL AQUIFER MONITORING WELLS

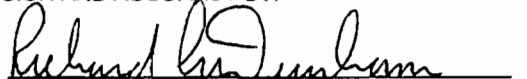
Label: MW #4
Date Sampled: 06/06/99
Time Sampled: 1430
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.044	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	0.002	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0049	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	15.7	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	BDL	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	0.42	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	0.99	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	1.51	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.007	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	6.9	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.001	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	12	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	62	Us	SM2510B	0		06/06/99	MP
TDS	33	mg/L	SM2540C	1		06/09/99	JES
pH	4.80	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	10.5	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.06	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	0.93	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	4.5	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	1.0	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	1.1	pCi/L	EPA 900.0	0 +/- 0.9		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



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Date: 07/13/99
OUC Log #: WQL991350

Sample Description:

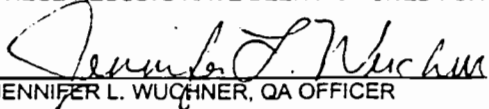
SEC – SURFICIAL AQUIFER MONITORING WELLS

Label: MW #5
Date Sampled: 06/06/99
Time Sampled: 1310
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.222	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	0.002	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0030	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	1.36	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.001	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	0.52	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	0.96	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	0.89	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.004	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	18.0	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.001	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.001	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	364	Us	SM2510B	0		06/06/99	MP
TDS	232	mg/L	SM2540C	1		06/09/99	JES
pH	4.53	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	33.2	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	96.5	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	2.6	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	3.0	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	8.3	pCi/L	EPA 900.0	0 +/- 2.2		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHINER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



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Date: 07/13/99
OUC Log #: WQL991351

Sample Description:

SEC - SURFICIAL AQUIFER MONITORING WELLS

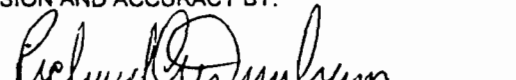
Label: MW #6
Date Sampled: 06/06/99
Time Sampled: 1225
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	0.001	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	1.17	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	BDL	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.016	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	31.4	mg/L	SM 3111B	0.1		06/28/99	JNG
CADIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.001	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	0.35	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	0.65	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	0.65	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.003	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	7.0	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.002	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	18	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	62	Us	SM2510B	0		06/06/99	MP
TDS	50	mg/L	SM2540C	1		06/09/99	JES
pH	4.13	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	12.5	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	BDL	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	0.41	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	1.28	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	6.4	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	1.0	pCi/L	EPA 900.0	0 +/- 0.8		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

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ADDRESS: Orlando Utilities Commission
500 South Orange Avenue
Orlando, Florida 32801
Leonard Mancini

Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991352

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

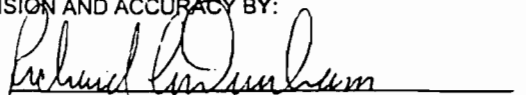
Label: MW #7
Date Sampled: 06/06/99
Time Sampled: 1205
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	2.93	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	0.001	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.032	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	2.0	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.001	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	0.40	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	0.81	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	0.89	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.003	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	5.7	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.003	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	20	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	57	Us	SM2510B	0		06/06/99	MP
TDS	38	mg/L	SM2540C	1		06/09/99	JES
pH	4.21	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	10.5	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.11	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	2.21	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	2.6	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	19	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	1.8	pCi/L	EPA 900.0	0 +/- 1.0		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



Water Quality Laboratory

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ADDRESS: Orlando Utilities Commission
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Leonard Mancini

Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991353

Sample Description:

SEC - SURFICIAL AQUIFER MONITORING WELLS

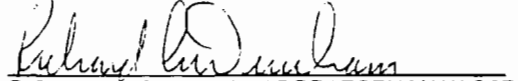
Label: MW #8
Date Sampled: 06/06/99
Time Sampled: 1035
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.354	mg/L	SM 3113B	0.003		06/21/99	JNG
ARSENIC	0.002	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.014	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	1.04	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.001	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	0.010	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	0.92	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	0.39	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	1.42	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.003	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	7.9	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	BDL	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.001	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	20	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	76	Us	SM2510B	0		06/06/99	MP
TDS	43	mg/L	SM2540C	1		06/09/99	JES
pH	5.09	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	16.7	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.07	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	1.05	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	1.92	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	2.0	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	0.3	pCi/L	EPA 900.0	0 +/- 0.7		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CampQAP #870156G
 FDOH LAB ID # E53566



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

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 ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
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 Leonard Mancini

Page: Page 1 of 2
 Date: 07/13/99
 OUC Log #: WQL991354

Sample Description:

SEC - SURFICIAL AQUIFER MONITORING WELLS

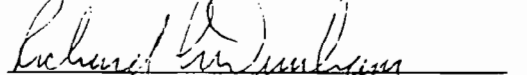
Label: MW #9
 Date Sampled: 06/06/99
 Time Sampled: 1015
 Date Received: 06/07/99
 Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.373	mg/L	SM 3113B	0.003		06/21/99	JNG
ARSENIC	0.002	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0009	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	1.74	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.003	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	0.44	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	0.38	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	0.95	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.008	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	5.4	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.003	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.001	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	18	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	56	Us	SM2510B	0		06/06/99	MP
TDS	34	mg/L	SM2540C	1		06/09/99	JES
pH	5.60	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	8.27	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.10	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	3.12	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	2.6	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	1.5	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	1.7	pCi/L	EPA 900.0	0 +/- 0.9		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY-BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



Water Quality Laboratory

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Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991355

Sample Description:


SEC - SURFICIAL AQUIFER MONITORING WELLS

Label: MW #10
Date Sampled: 06/06/99
Time Sampled: 1045
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINIUM	0.232	mg/L	SM 3113B	0.003		06/21/99	JNG
ARSENIC	0.002	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.008	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	0.50	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.002	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	0.010	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	0.42	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	0.30	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	0.62	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.007	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	5.0	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.001	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.001	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	20	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	56	Us	SM2510B	0		06/06/99	MP
TDS	23	mg/L	SM2540C	1		06/09/99	JES
pH	4.89	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	6.37	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.07	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	2.75	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	1.28	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	0.85	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	1.9	pCi/L	EPA 900.0	0 +/- 1.0		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


JENNIFER L. WUCHNER, QA OFFICER


RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



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Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991356

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS


Label: MW #11
Date Sampled: 06/06/99
Time Sampled: 1110
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	6.29	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	0.002	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	1.84	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	159	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.003	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	0.010	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	5.20	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	41.4	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	7.38	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	0.020	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.004	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	120	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.014	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.001	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	20	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	1762	Us	SM2510B	0		06/06/99	MP
TDS	1084	mg/L	SM2540C	1		06/09/99	JES
pH	4.31	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	485	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.15	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	21.9	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	3.2	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	5.4	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	15.6	pCi/L	EPA 900.0	0 +/- 2.3		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



ORLANDO UTILITIES COMMISSION

Water Quality Laboratory

CERTIFICATE OF ANALYSIS

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Orlando, Florida 32801
Leonard Mancini

Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991357

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

Label: MW #12
Date Sampled: 06/06/99
Time Sampled: 1120
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	1.57	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	0.001	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.41	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	10.3	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.002	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	1.62	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	3.46	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	5.13	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	0.020	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.004	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	48	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.004	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	20	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	417	Us	SM2510B	0		06/06/99	MP
TDS	224	mg/L	SM2540C	1		06/09/99	JES
pH	4.27	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	107	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.06	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	11.7	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	2.56	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	0.50	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	1.1	pCi/l	EPA 900.0	0 +/- 1.1		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



ORLANDO UTILITIES COMMISSION

Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
500 South Orange Avenue
Orlando, Florida 32801
Leonard Mancini

Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991358

Sample Description:

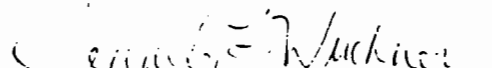
SEC - SURFICIAL AQUIFER MONITORING WELLS

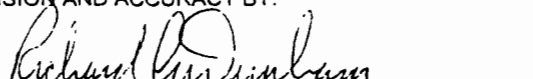
Label: MW #13
Date Sampled: 06/06/99
Time Sampled: 1140
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	1.86	mg/L	SM 3111B	0.003		06/21/99	JNG
ARSENIC	0.001	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.42	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	9.42	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.002	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	BDL	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	1.01	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	1.38	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	2.96	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.004	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	14	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.002	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	BDL	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	BDL	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	18	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	199	Us	SM2510B	0		06/06/99	MP
TDS	102	mg/L	SM2540C	1		06/09/99	JES
pH	5.84	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	29.1	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.06	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	34.0	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	2.56	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	0.45	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	5.6	pCi/l	EPA 900.0	0 +/- 1.7		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991359

Sample Description:

SEC - SURFICIAL AQUIFER MONITORING WELLS


Label: MW #14
Date Sampled: 06/06/99
Time Sampled: 1245
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.156	mg/L	SM 3113B	0.003		06/21/99	JNG
ARSENIC	0.001	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.138	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	155	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.008	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	0.010	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	1.46	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	8.92	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	4.89	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	0.020	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.005	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	14	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.010	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.005	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	735	Us	SM2510B	0		06/06/99	MP
TDS	509	mg/L	SM2540C	1		06/09/99	JES
pH	5.63	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	23.3	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.06	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	31.8	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	8.32	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	10	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	3.7	pCi/l	EPA 900.0	0 +/- 2.5		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566



Water Quality Laboratory

CERTIFICATE OF ANALYSIS

CLIENT: STANTON ENERGY CENTER
ADDRESS: Orlando Utilities Commission
 500 South Orange Avenue
 Orlando, Florida 32801
 Leonard Mancini

Page: Page 1 of 2
Date: 07/13/99
OUC Log #: WQL991360

Sample Description:

SEC – SURFICIAL AQUIFER MONITORING WELLS

Label: MW #OW-4
Date Sampled: 06/06/99
Time Sampled: 1415
Date Received: 06/07/99
Collected By: M.PATTERSON

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
SILVER	BDL	mg/L	SM 3113B	0.0003		06/18/99	JNG
ALUMINUM	0.590	mg/L	SM 3113B	0.003		06/21/99	JNG
ARSENIC	0.002	mg/L	SM 3113B	0.001		06/15/99	JNG
BARIUM	0.081	mg/L	SM 3113B	0.001		06/25/99	JNG
BERYLLIUM	BDL	mg/L	SM 3113B	0.0002		06/28/99	JNG
CALCIUM	7.60	mg/L	SM 3111B	0.1		06/28/99	JNG
CADMIUM	BDL	mg/L	SM 3113B	0.0002		06/14/99	JNG
CHROMIUM	0.006	mg/L	SM 3113B	0.002		06/14/99	JNG
COPPER	0.010	mg/L	SM 3111B	0.01		06/10/99	JNG
IRON	1.11	mg/L	SM 3111B	0.02		06/10/99	JNG
MERCURY	BDL	mg/L	245.1	0.0005		06/22/99	JNG
POTASSIUM	1.47	mg/L	SM 3111B	0.02		06/18/99	JNG
MAGNESIUM	0.77	mg/L	SM 3111B	0.02		06/21/99	JNG
MANGANESE	BDL	mg/L	SM 3111B	0.02		06/09/99	JNG
MOLYBDENUM	0.003	mg/L	SM 3113B	0.002		06/28/99	JNG
SODIUM	7.5	mg/L	EPA 6010	0.2		06/17/99	PBS&J
NICKEL	0.004	mg/L	SM31113B	0.001		06/15/99	JNG
LEAD	0.004	mg/L	SM 3113B	0.001		06/09/99	JNG
SELENIUM	BDL	mg/L	SM 3113B	0.001		07/01/99	JNG
ZINC	0.010	mg/L	SM3111B	0.01		06/09/99	JNG

PARAMETER	RESULTS	UNITS	METHOD	MDL	EXTR. DATE	ANALYSIS DATE	ANALYST
COLOR	>30	CU	SM 2120B	0		06/07/99	JNG
SPECIFIC COND.	98	Us	SM2510B	0		06/06/99	MP
TDS	107	mg/L	SM2540C	1		06/09/99	JES
pH	5.40	pH units	SM 4500 HB	0		06/06/99	MP
CHLORIDE	12.1	mg/L	EPA 300.0	0.1		06/07/99	JLW
NITRATE	BDL	mg/L	EPA 300.0	0.10		06/07/99	JLW
PHOSPHATE TOTAL	0.14	mg/L	EPA 300.0	0.05		06/23/99	JNG
SULFATE	6.89	mg/L	EPA 300.0	0.06		06/07/99	JLW
SULFITE	10.2	mg/L	SM 4500 SO3	1.0		06/06/99	MP
TURBIDITY	65	NTU	EPA 180.1	0.01		06/07/99	JNG
GROSS ALPHA (TOTAL)	3.7	pCi/l	EPA 900.0	0 +/- 1.4		06/11/99	PBS&J

THESE RESULTS HAVE BEEN REVIEWED FOR THEIR PRECISION AND ACCURACY BY:


 JENNIFER L. WUCHNER, QA OFFICER


 RICHARD A. DUNHAM, LABORATORY MANAGER

CompQAP #870156G
 FDOH LAB ID # E53566

FIELD SHEET FOR WELLS

Client: ouc

Project Name: SEC - wells
Location: Orlando, FL
Well ID: OW # 4

Contact:

Date: 06-06-99

Time: 14:15

Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
Total Depth 31.37 ft.
Water Level 6.38 ft.
Column Height 24.99 ft.
Column Volume 407 gal.

EVALUATION

Main EPA ^{EX} 20.35 gal.
Actual 24.5 gal.
GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 26.0 C
Conductivity 98 umhos @25C
pH 5.40 units

SO₃ = 0.24 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint : Light - Medium - Dark
Color : Colorless - Gray - Yellow
Orange - Brown - Green - Black
Turbidity : Clear - Mild - Medium - Heavy
Odor : None - Slight - Mild - Strong
Description (Odor) : Unknown

Well Location : Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS : _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	0.183	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: OUC
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 14

Contact:
 Date: 06-06-99
 Time: 12:45
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth: 30.24 ft.
 Water Level 8.47 ft.
 Column Height 21.77 ft.
 Column Volume 3.54 gal.

EVALUATION

Main EPA ^{5X} 17.7 gal.
 Actual 21.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.9 C
 Conductivity 935 umhos @25C
 pH 5.63 units

SO₃ = 8.32 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): - Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: OUU
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 13

Contact:
 Date: 06-06-99
 Time: 11:40
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 24.86 ft.
 Water Level 8.72 ft.
 Column Height 16.14 ft.
 Column Volume 2.63 gal.

EVALUATION

Main EPA ^{5X} 13.15 gal.
 Actual 21.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.6 C
 Conductivity 199 umhos @25C
 pH 5.84 units

903 = 2.56 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft.:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: DUc
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mwe # 12

Contact:
 Date: 06-06-99
 Time: 11:20
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 30.35 ft.
 Water Level: 10.24 ft.
 Column Height 20.11 ft.
 Column Volume 3.27 gal.

EVALCUATION

Main EPA ^{SX} 16.35 gal.
 Actual 21.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.2 C
 Conductivity 417 umhos @25C
 pH 4.27 units

S03 = 2.56mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Slight - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: DUU
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 11

Contact:
 Date: 06-06-99
 Time: 11:10
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 29.3 ft.
 Water Level 6.569 ft.
 Column Height 23.61 ft.
 Column Volume 3.84 gal.

EVALUATION

Main EPA ^{SX} 19.2 gal.
 Actual 21.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 24.1 C
 Conductivity 1762 umhos @25C
 pH 4.31 units

SO3 = 3.2 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft.:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: DUU
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mwe # 10

Contact:
 Date: 06-06-99
 Time: 10:45
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 30.45 ft.
 Water Level 6.67 ft.
 Column Height 23.78 ft.
 Column Volume 3.87 gal.

EVALUATION

Main EPA ^{5X} 19.38 gal.
 Actual 28.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 24.3 C
 Conductivity 43 umhos @25C
 pH 4.89 units

503 = 1.28 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: OUe
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 9

Contact: Mark
 Date: 06-06-99
 Time: 10:15
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 30.37 ft.
 Water Level 7.98 ft.
 Column Height 22.39 ft.
 Column Volume 3.64 gal.

EVALCUATION

Main EPA ^{5X} 18.24 gal.
 Actual 24.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.2 C
 Conductivity 56 umhos @25C
 pH 5.60 units

SO₃ = 2.56 nfl

WELL EVALUATION METHOD

- Handbailed
- Peristatic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location : Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS :

EQV 1 BLANK BEFORE SAMPLES
10:00

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: ouc
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 8

Contact:
 Date: 06-06-99
 Time: ~~10:30~~ 10:35
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 24.93 ft.
 Water Level 7.38 ft.
 Column Height 17.55 ft.
 Column Volume 2.816 gal.

EVALUATION

^{5X} Main EPA 14.83 gal.
 Actual 24.5 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 24.7 C
 Conductivity 76 umhos @25C
 pH 5.09 units

SO3 = 1.92 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailor
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location : Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS : _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.387	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: OUU

Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 17

Contact:
 Date: 06-06-99
 Time: 12:05
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 325 ft.
 Water Level 4.20 ft.
 Column Height 27.71 ft.
 Column Volume 4.51 gal.

EVALUATION

Main EPA 22.55 gal.
 Actual 28.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 24.8 C
 Conductivity 57 umhos @25C
 pH 4.21 units

SO₂ = 2.56mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailor
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: DUU
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 6

Contact:
 Date: 06-06-99
 Time: 12:25
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth ~~32.18~~ 32.68 ft.
 Water Level 8.45 ft.
 Column Height 24.23 ft.
 Column Volume 3.99 gal.

EVALUATION

Main EPA ^{5X} ~~19.7~~ 31.5 gal.
 Actual 31.5 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.5 C
 Conductivity 62 umhos @25C
 pH 4.13 units

SO₃ = 1.28 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter:	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft.:	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: OUC
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 5

Contact:
 Date: 06-06-99
 Time: 13:10
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 32.87 ft.
 Water Level 7.89 ft.
 Column Height ~~32.87~~ 24.98 ft.
 Column Volume 4.07 gal.

EVALUATION

Main EPA ^{5X} 20.3 gal.
 Actual 51.5 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.7 C
 Conductivity 364 umhos @25C
 pH 4.53 units

SO₃ = 4 mg/l 2.64 mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: Opp #1 at well MW5

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: ouc
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 4

Contact:
 Date: 06-06-99
 Time: 14:30
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 25.0 ft.
 Water Level 6.13 ft.
 Column Height 18.87 ft.
 Column Volume 3.57 gal.

EVALUATION

Main EPA ^{EX} 15.37 gal.
 Actual 24.5 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.3 C
 Conductivity 62 umhos @25C
 pH 4.80 units

SO₃ = 4.48

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location : Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS : _____

Samples Obtained By (Print) : _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.367	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: OUU
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mwe # 3

Contact:
 Date: 06-06-99
 Time: 15:00
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 30.38 ft.
 Water Level 5.96 ft.
 Column Height 24.42 ft.
 Column Volume 3.98 gal.

EVALUATION

Main EPA ^{5X} 19.9 gal.
 Actual 30.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.2 C
 Conductivity 115 umhos @25C
 pH 5.21 units

SO₃ = 3.2

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: _____

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter: 1 in. 2 in. 3 in. 4 in. 6 in. 10 in. 12 in. 14 in.

Volume Gal. / Ft.: 0.041 0.163 0.367 0.653 1.469 4.080 5.875 8.000

FIELD SHEET FOR WELLS

Client: OUC
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: MW # 2

Contact:
 Date: 06-06-99
 Time: 16:00
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 32.45 ft.
 Water Level 5.41 ft.
 Column Height 27.04 ft.
 Column Volume 4.44 gal.

EVALUATION

Main EPA ^{5X} 22.2 gal.
 Actual 30.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 26.2 C
 Conductivity 489 umhos @25C
 pH 6.09 units

SO₂ = 2.56

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailor
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS: MW 2 REP #2 @ 16400

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.183</u>	0.387	0.653	1.469	4.080	5.875	8.000

FIELD SHEET FOR WELLS

Client: ouc
 Project Name: SEC - wells
 Location: Orlando, FL
 Well ID: mw # 1

Contact:
 Date: 06-06-99
 Time: 15:30
 Containers: 3

WELL SPECIFICATIONS

Diameter 2 in.
 Total Depth 24.95 ft.
 Water Level 9.41 ft.
 Column Height 15.54 ft.
 Column Volume 2.53 gal.

EVALUATION

Main EPA ^{5X} ~~12.66~~ 18.0 gal.
 Actual 18.0 gal.
 GWL Above MSL _____ ft.

FIELD PARAMETERS

Temperature 25.6 C
 Conductivity 946 umhos @25C
 pH 5.68 units

SO₄ = 1.28mg/l

WELL EVALUATION METHOD

- Handbailed
- Peristaltic Pump
- Centrifugal Pump
- Submersible Pump
- Vacuum Flask
- N/A
- Other: _____

SAMPLING METHOD

- Bailer
- Vacuum Flask
- Grab
- Submersible Pump

SAMPLE APPEARANCE

Tint: Light - Medium - Dark
 Color: Colorless - Gray - Yellow
 Orange - Brown - Green - Black
 Turbidity: Clear - Mild - Medium - Heavy
 Odor: None - Slight - Mild - Strong
 Description (Odor): Unknown

Well Location: Client Map - Our Map - Other (Explain) _____

MISCELLANEOUS COMMENTS:

LEAK FROM BEFORE (WELL MW 9)

Samples Obtained By (Print): _____

Signature of Field Representative: _____

Casting Diameter :	1 in.	<u>2 in.</u>	3 in.	4 in.	6 in.	10 in.	12 in.	14 in.
Volume Gal. / Ft. :	0.041	<u>0.163</u>	0.387	0.653	1.469	4.080	5.875	8.000

1st Quarter 1999

US Biosystems REPORT OF ANALYSIS

Orlando Utilities Commission
500 South Orange Avenue
Orlando, FL 32801

Log #: L33593
Date: 02/11/99

Leonard Mancini

Client Project ID: OUC-SEC Qrtly. Wells
Collected By: M. Patterson

RECEIVED
MAR 18 1999
OUC-ENVD

Laboratory Sample #	Client Sample #
L33593-1	MW-1
L33593-2	MW-2
L33593-3	MW-3
L33593-4	MW-4
L33593-5	MW-5
L33593-6	MW-6
L33593-7	MW-7
L33593-8	MW-8
L33593-9	MW-9
L33593-10	MW-10
L33593-11	MW-11

QAP# 900376
SUB HRS# 86122,86109,E86048
CT CERT# PH-0122
VA CERT# 00395

HRS# E86240,86356
ADEM ID# 40850
ELPAT# 13801
USDA Soil Permit# S-35240

NC CERT# 444
SC CERT# 96031001
GA CERT# 917

RI CERT# 191
TN CERT# 02985
MA CERT# M-FL449

US Biosystems
REPORT OF ANALYSIS

Orlando Utilities Commission
500 South Orange Avenue
Orlando, FL 32801


Log #: L33593
Date: 02/11/99

Leonard Mancini

Client Project ID: OUC-SEC Qrtly. Wells
Collected By: M. Patterson

Laboratory Sample #	Client Sample #
L33593-12	MW-12
L33593-13	MW-13
L33593-14	MW-14
L33593-15	DW-4
L33593-16	DW-4 Dup
L33593-17	Equip. Blank

Respectfully Submitted,


Cindy Kegelman
Senior Project Manager

QAP# 900376	HRS# E86240,86356	NC CERT# 444	RI CERT# 191
SUB HRS# 86122,86109,E86048	ADEM ID# 40850	SC CERT# 96031001	TN CERT# 02985
CT CERT# PH-0122	ELPAT# 13801	GA CERT# 917	MA CERT# M-FL449
VA CERT# 00395	USDA Soil Permit# S-35240		

PARAMETER MONITORING REPORT

Order #: L33593-1
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-1
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 16:20
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	871umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	10.3 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	5.7pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	26.2 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	39.4 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	91 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	280 pcu	25 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.26 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	<0.50 mg/l	0.50 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/21/99 00:00	590 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	01/25/99 00:00	3.4 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	01/25/99 00:00	0.33 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	01/25/99 00:00	130 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	01/25/99 00:00	0.0098 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	01/25/99 00:00	34 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	01/25/99 00:00	9.0 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	01/25/99 00:00	0.048 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	01/25/99 00:00	0.018 mg/l	0.010 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	2.0 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	01/25/99 00:00	26 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	01/25/99 00:00	0.28 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-1
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-1
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 16:20
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	64 mg/l	0.60 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	5.0+/-1.5 pCi/l	2.0 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-2
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14157
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-2
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 16:40
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: INTERMEDIATE
 Groundwater Class: GII

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services							
000094	Conductivity	Bailer	N	120.1	01/20/99 00:00	589umhos/cm	
72020	Depth to Water	Bailer	N	field	01/20/99 00:00	6.84 feet	
000406	Field pH	Bailer	N	150.1	01/20/99 00:00	6.6pH Units	0.10pH Units
000010	Field Temp	Bailer	N	170.1	01/20/99 00:00	25.7 Deg. C	0.100 Deg. C
82078	Field Turbidity	Bailer	N	180.1	01/20/99 00:00	129 NTU	
General Chemistry							
00940	Chloride	Bailer	N	300.0	01/22/99 00:00	8.0 mg/l	0.50 mg/l
NA081	Color	Bailer	N	110.2	01/21/99 00:00	15 pcu	5.0 pcu
00620	Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665	Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.32 mg/l	0.010 mg/l
00945	Sulfate	Bailer	N	300.0	01/22/99 00:00	9.7 mg/l	0.50 mg/l
0300	Total Dissolved Solids	Bailer	N	160.1	01/21/99 00:00	340 mg/l	20 mg/l
Metals							
NA227	Aluminum	Bailer	N	3010/6010	01/25/99 00:00	<0.050 mg/l	0.050 mg/l
01002	Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007	Barium	Bailer	N	3010/6010	01/25/99 00:00	0.13 mg/l	0.010 mg/l
01012	Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027	Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032	Calcium	Bailer	N	3010/6010	01/25/99 00:00	100 mg/l	0.10 mg/l
01034	Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042	Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045	Iron	Bailer	N	3010/6010	01/25/99 00:00	0.98 mg/l	0.050 mg/l
001051	Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033	Magnesium	Bailer	N	3010/6010	01/25/99 00:00	2.2 mg/l	0.050 mg/l
001055	Manganese	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228	Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067	Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034	Potassium	Bailer	N	3010/6010	02/01/99 00:00	2.4 mg/l	0.50 mg/l
001147	Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077	Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929	Sodium	Bailer	N	3010/6010	01/25/99 00:00	11 mg/l	0.50 mg/l
001087	Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092	Zinc	Bailer	N	3010/6010	01/25/99 00:00	0.011 mg/l	0.010 mg/l
71900	Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-2
Facility GMS #: 3005M00599
Test Site ID #: 3005A14157
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-2
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 16:40
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: INTERMEDIATE
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	1.0 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	2.4+/-1.0 pCi/l	1.3 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-3
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-3
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 16:00
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	159umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	6.25 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	5.3pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	24.6 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	1.85 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	5.6 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	10 pcu	5.0 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.011 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	0.53 mg/l	0.50 mg/l
300 Total Dissolved Solids	Bailer	N	160.1	01/21/99 00:00	62 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	01/25/99 00:00	0.27 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	01/25/99 00:00	0.057 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	01/25/99 00:00	13 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	01/25/99 00:00	0.63 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	01/25/99 00:00	1.5 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	0.81 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	01/25/99 00:00	4.8 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-3
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-3
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 16:00
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	2.6 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	2.6+/-1.0 pCi/l	1.1 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-4
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-4
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 15:30
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services							
000094	Conductivity	Bailer	N	120.1	01/20/99 00:00	66.0umhos/cm	
72020	Depth to Water	Bailer	N	field	01/20/99 00:00	6.63 feet	
000406	Field pH	Bailer	N	150.1	01/20/99 00:00	5.5pH Units	0.10pH Units
000010	Field Temp	Bailer	N	170.1	01/20/99 00:00	25.1 Deg. C	0.100 Deg. C
82078	Field Turbidity	Bailer	N	180.1	01/20/99 00:00	1.62 NTU	
General Chemistry							
00940	Chloride	Bailer	N	300.0	01/22/99 00:00	8.8 mg/l	0.50 mg/l
NA081	Color	Bailer	N	110.2	01/21/99 00:00	10 pcu	5.0 pcu
00620	Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665	Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	<0.010 mg/l	0.010 mg/l
00945	Sulfate	Bailer	N	300.0	01/22/99 00:00	1.6 mg/l	0.50 mg/l
70300	Total Dissolved Solids	Bailer	N	160.1	01/21/99 00:00	34 mg/l	20 mg/l
Metals							
NA227	Aluminum	Bailer	N	3010/6010	01/25/99 00:00	0.27 mg/l	0.050 mg/l
01002	Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007	Barium	Bailer	N	3010/6010	01/25/99 00:00	0.033 mg/l	0.010 mg/l
01012	Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027	Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032	Calcium	Bailer	N	3010/6010	01/25/99 00:00	1.6 mg/l	0.10 mg/l
01034	Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042	Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045	Iron	Bailer	N	3010/6010	01/25/99 00:00	0.50 mg/l	0.050 mg/l
001051	Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033	Magnesium	Bailer	N	3010/6010	01/25/99 00:00	0.85 mg/l	0.050 mg/l
001055	Manganese	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228	Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067	Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034	Potassium	Bailer	N	3010/6010	02/01/99 00:00	0.69 mg/l	0.50 mg/l
001147	Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077	Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929	Sodium	Bailer	N	3010/6010	01/25/99 00:00	5.5 mg/l	0.50 mg/l
001087	Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092	Zinc	Bailer	N	3010/6010	01/25/99 00:00	0.011 mg/l	0.010 mg/l
71900	Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-4
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-4
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 15:30
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	2.6 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	1.4+/-0.5 pCi/l	0.50 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-5
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-5
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 14:20
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	370umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	8.59 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	4.5pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	25.3 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	0.790 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	25 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	60 pcu	5.0 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	<0.010 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	86 mg/l	2.5 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/21/99 00:00	200 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	01/25/99 00:00	1.5 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	01/25/99 00:00	0.078 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	01/25/99 00:00	27 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	01/25/99 00:00	1.6 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	01/25/99 00:00	5.8 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	10 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	01/25/99 00:00	16 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-5
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-5
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 14:20
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	5.8 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	7.4+/-1.3 pCi/l	1.4 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-6
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14158
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-6
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 13:50
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: BACKGROUND
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	60.0umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	8.58 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	4.5pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	26.3 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	8.41 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	10 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	10 pcu	5.0 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.029 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	<0.50 mg/l	0.50 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/21/99 00:00	26 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	05/02/97 00:00	0.74 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	05/02/97 00:00	0.019 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	05/02/97 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	05/02/97 00:00	1.7 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	05/02/97 00:00	0.36 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	05/02/97 00:00	0.67 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	<0.50 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	05/02/97 00:00	5.5 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-6
Facility GMS #: 3005M00599
Test Site ID #: 3005A14158
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-6
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 13:50
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: BACKGROUND
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	1.3 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	1.0+/-0.5 pCi/l	0.60 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-7
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14159
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-7
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 13:35
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: INTERMEDIATE
 Groundwater Class: GII

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services							
000094	Conductivity	Bailer	N	120.1	01/20/99 00:00	52.0umhos/cm	
72020	Depth to Water	Bailer	N	field	01/20/99 00:00	4.31 feet	
000406	Field pH	Bailer	N	150.1	01/20/99 00:00	4.7pH Units	0.10pH Units
000010	Field Temp	Bailer	N	170.1	01/20/99 00:00	24.9 Deg. C	0.100 Deg. C
82078	Field Turbidity	Bailer	N	180.1	01/20/99 00:00	10.6 NTU	
General Chemistry							
00940	Chloride	Bailer	N	300.0	01/22/99 00:00	7.6 mg/l	0.50 mg/l
NA081	Color	Bailer	N	110.2	01/21/99 00:00	15 pcu	5.0 pcu
00620	Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665	Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.056 mg/l	0.010 mg/l
00945	Sulfate	Bailer	N	300.0	01/22/99 00:00	1.1 mg/l	0.50 mg/l
70300	Total Dissolved Solids	Bailer	N	160.1	01/21/99 00:00	30 mg/l	20 mg/l
Metals							
NA227	Aluminum	Bailer	N	3010/6010	05/02/97 00:00	1.3 mg/l	0.050 mg/l
01002	Arsenic	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001007	Barium	Bailer	N	3010/6010	05/02/97 00:00	0.033 mg/l	0.010 mg/l
01012	Beryllium	Bailer	N	3010/6010	05/02/97 00:00	<0.0040 mg/l	0.0040 mg/l
01027	Cadmium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82032	Calcium	Bailer	N	3010/6010	05/02/97 00:00	2.3 mg/l	0.10 mg/l
01034	Chromium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
001042	Copper	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001045	Iron	Bailer	N	3010/6010	05/02/97 00:00	0.33 mg/l	0.050 mg/l
001051	Lead	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82033	Magnesium	Bailer	N	3010/6010	05/02/97 00:00	0.73 mg/l	0.050 mg/l
001055	Manganese	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
NA228	Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067	Nickel	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82034	Potassium	Bailer	N	3010/6010	02/01/99 00:00	0.58 mg/l	0.50 mg/l
001147	Selenium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001077	Silver	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
000929	Sodium	Bailer	N	3010/6010	05/02/97 00:00	4.0 mg/l	0.50 mg/l
001087	Vanadium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001092	Zinc	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
71900	Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-7
Facility GMS #: 3005M00599
Test Site ID #: 3005A14159
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-7
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 13:35
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: INTERMEDIATE
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	2.6 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	2.3+/-0.6 pCi/l	0.50 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-8
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14160
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-8
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 12:00
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: INTERMEDIATE
 Groundwater Class: GII

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services							
000094	Conductivity	Bailer	N	120.1	01/20/99 00:00	81.0umhos/cm	
72020	Depth to Water	Bailer	N	field	01/20/99 00:00	7.56 feet	
000406	Field pH	Bailer	N	150.1	01/20/99 00:00	5.0pH Units	0.10pH Units
000010	Field Temp	Bailer	N	170.1	01/20/99 00:00	25.1 Deg. C	0.100 Deg. C
82078	Field Turbidity	Bailer	N	180.1	01/20/99 00:00	0.570 NTU	
General Chemistry							
00940	Chloride	Bailer	N	300.0	01/22/99 00:00	17 mg/l	0.50 mg/l
NA081	Color	Bailer	N	110.2	01/21/99 00:00	10 pcu	5.0 pcu
00620	Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665	Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	<0.010 mg/l	0.010 mg/l
00945	Sulfate	Bailer	N	300.0	01/22/99 00:00	1.1 mg/l	0.50 mg/l
70300	Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	64 mg/l	20 mg/l
Metals							
NA227	Aluminum	Bailer	N	3010/6010	05/02/97 00:00	0.46 mg/l	0.050 mg/l
01002	Arsenic	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001007	Barium	Bailer	N	3010/6010	05/02/97 00:00	0.022 mg/l	0.010 mg/l
01012	Beryllium	Bailer	N	3010/6010	05/02/97 00:00	<0.0040 mg/l	0.0040 mg/l
01027	Cadmium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82032	Calcium	Bailer	N	3010/6010	05/02/97 00:00	0.57 mg/l	0.10 mg/l
01034	Chromium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
001042	Copper	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001045	Iron	Bailer	N	3010/6010	05/02/97 00:00	0.78 mg/l	0.050 mg/l
001051	Lead	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82033	Magnesium	Bailer	N	3010/6010	05/02/97 00:00	1.7 mg/l	0.050 mg/l
001055	Manganese	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
NA228	Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067	Nickel	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82034	Potassium	Bailer	N	3010/6010	02/01/99 00:00	<0.50 mg/l	0.50 mg/l
001147	Selenium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001077	Silver	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
000929	Sodium	Bailer	N	3010/6010	05/02/97 00:00	7.3 mg/l	0.50 mg/l
001087	Vanadium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001092	Zinc	Bailer	N	3010/6010	05/02/97 00:00	0.011 mg/l	0.010 mg/l
71900	Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-8
Facility GMS #: 3005M00599
Test Site ID #: 3005A14160
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-8
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 12:00
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: INTERMEDIATE
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	1.3 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	2.5+/-0.7 pCi/l	0.70 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-9
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14161
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-9
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 11:30
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: COMPLIANCE
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	53.0umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	8.24 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	5.3pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	25.1 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	1.01 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	7.3 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	15 pcu	5.0 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	<0.010 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	2.6 mg/l	0.50 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	28 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	05/02/97 00:00	0.31 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	05/02/97 00:00	0.022 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	05/02/97 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	05/02/97 00:00	0.44 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	05/02/97 00:00	0.45 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	05/02/97 00:00	<0.050 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	<0.50 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	05/02/97 00:00	4.6 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-9
Facility GMS #: 3005M00599
Test Site ID #: 3005A14161
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-9
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 11:30
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: COMPLIANCE
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	1.3 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	1.1+/-0.5 pCi/l	0.50 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-10
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14162
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-10
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 12:20
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: COMPLIANCE
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	44.0umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	6.42 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	4.8pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	24.1 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	1.33 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	5.3 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	10 pcu	5.0 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.028 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	2.8 mg/l	0.50 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	<20 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	05/02/97 00:00	0.40 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	05/02/97 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	05/02/97 00:00	0.23 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	05/02/97 00:00	0.42 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	05/02/97 00:00	0.66 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	<0.50 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	05/02/97 00:00	4.3 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-10
Facility GMS #: 3005M00599
Test Site ID #: 3005A14162
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-10
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 12:20
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: COMPLIANCE
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	<0.64 mg/l	0.64 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	0.9+/-0.4 pCi/l	0.40 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-11
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14163
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-11
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 12:40
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: COMPLIANCE
 Groundwater Class: GII

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services							
000094	Conductivity	Bailer	N	120.1	01/20/99 00:00	1250umhos/cm	
72020	Depth to Water	Bailer	N	field	01/20/99 00:00	6.11 feet	
000406	Field pH	Bailer	N	150.1	01/20/99 00:00	4.5pH Units	0.10pH Units
000010	Field Temp	Bailer	N	170.1	01/20/99 00:00	24.9 Deg. C	0.100 Deg. C
82078	Field Turbidity	Bailer	N	180.1	01/20/99 00:00	0.980 NTU	
General Chemistry							
00940	Chloride	Bailer	N	300.0	01/22/99 00:00	360 mg/l	5.0 mg/l
NA081	Color	Bailer	N	110.2	01/21/99 00:00	5.0 pcu	5.0 pcu
00620	Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665	Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.059 mg/l	0.010 mg/l
00945	Sulfate	Bailer	N	300.0	01/22/99 00:00	4.8 mg/l	0.50 mg/l
70300	Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	780 mg/l	20 mg/l
Metals							
NA227	Aluminum	Bailer	N	3010/6010	05/02/97 00:00	4.5 mg/l	0.050 mg/l
01002	Arsenic	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001007	Barium	Bailer	N	3010/6010	05/02/97 00:00	0.97 mg/l	0.010 mg/l
01012	Beryllium	Bailer	N	3010/6010	05/02/97 00:00	<0.0040 mg/l	0.0040 mg/l
01027	Cadmium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82032	Calcium	Bailer	N	3010/6010	05/02/97 00:00	82 mg/l	0.10 mg/l
01034	Chromium	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
001042	Copper	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001045	Iron	Bailer	N	3010/6010	05/02/97 00:00	4.2 mg/l	0.050 mg/l
001051	Lead	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82033	Magnesium	Bailer	N	3010/6010	05/02/97 00:00	5.8 mg/l	0.050 mg/l
001055	Manganese	Bailer	N	3010/6010	05/02/97 00:00	0.020 mg/l	0.010 mg/l
NA228	Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067	Nickel	Bailer	N	3010/6010	05/02/97 00:00	<0.0050 mg/l	0.0050 mg/l
82034	Potassium	Bailer	N	3010/6010	02/01/99 00:00	25 mg/l	0.50 mg/l
001147	Selenium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001077	Silver	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
000929	Sodium	Bailer	N	3010/6010	05/02/97 00:00	80 mg/l	0.50 mg/l
001087	Vanadium	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
001092	Zinc	Bailer	N	3010/6010	05/02/97 00:00	<0.010 mg/l	0.010 mg/l
71900	Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-11
Facility GMS #: 3005M00599
Test Site ID #: 3005A14163
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-11
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 12:40
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: COMPLIANCE
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	1.9 mg/l	0.64 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/27/99 00:00	11+/-2.6 pCi/l	3.1 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-12
 Facility GMS #: 3005M00599
 Test Site ID #: 3005A14164
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-12
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 13:10
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: COMPLIANCE
 Groundwater Class: GII

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services							
000094	Conductivity	Bailer	N	120.1	01/20/99 00:00	593umhos/cm	
72020	Depth to Water	Bailer	N	field	01/20/99 00:00	10.7 feet	
000406	Field pH	Bailer	N	150.1	01/20/99 00:00	4.9pH Units	0.10pH Units
000010	Field Temp	Bailer	N	170.1	01/20/99 00:00	25.6 Deg. C	0.100 Deg. C
82078	Field Turbidity	Bailer	N	180.1	01/20/99 00:00	2.12 NTU	
General Chemistry							
00940	Chloride	Bailer	N	300.0	01/22/99 00:00	67 mg/l	2.5 mg/l
NA081	Color	Bailer	N	110.2	01/21/99 00:00	5.0 pcu	5.0 pcu
00620	Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665	Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.028 mg/l	0.010 mg/l
00945	Sulfate	Bailer	N	300.0	01/22/99 00:00	310 mg/l	2.5 mg/l
70300	Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	340 mg/l	20 mg/l
Metals							
NA227	Aluminum	Bailer	N	3010/6010	01/25/99 00:00	7.3 mg/l	0.050 mg/l
01002	Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007	Barium	Bailer	N	3010/6010	01/25/99 00:00	0.037 mg/l	0.010 mg/l
01012	Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027	Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032	Calcium	Bailer	N	3010/6010	01/25/99 00:00	48 mg/l	0.10 mg/l
01034	Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042	Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045	Iron	Bailer	N	3010/6010	01/25/99 00:00	1.9 mg/l	0.050 mg/l
001051	Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033	Magnesium	Bailer	N	3010/6010	01/25/99 00:00	3.3 mg/l	0.050 mg/l
001055	Manganese	Bailer	N	3010/6010	01/25/99 00:00	0.011 mg/l	0.010 mg/l
NA228	Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067	Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034	Potassium	Bailer	N	3010/6010	02/01/99 00:00	15 mg/l	0.50 mg/l
001147	Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077	Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929	Sodium	Bailer	N	3010/6010	01/25/99 00:00	31 mg/l	0.50 mg/l
001087	Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092	Zinc	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
71900	Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-12
Facility/GMS #: 3005M00599
Test Site ID #: 3005A14164
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-12
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 13:10
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: COMPLIANCE
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	2.6 mg/l	0.60 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/27/99 00:00	6.6+/-1.6 pCi/l	2.0 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-13
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-13
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 13:20
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services							
000094	Conductivity	Bailer	N	120.1	01/20/99 00:00	210umhos/cm	
72020	Depth to Water	Bailer	N	field	01/20/99 00:00	8.71 feet	
000406	Field pH	Bailer	N	150.1	01/20/99 00:00	4.2pH Units	0.10pH Units
000010	Field Temp	Bailer	N	170.1	01/20/99 00:00	25.7 Deg. C	0.100 Deg. C
82078	Field Turbidity	Bailer	N	180.1	01/20/99 00:00	2.84 NTU	
General Chemistry							
00940	Chloride	Bailer	N	300.0	01/22/99 00:00	28 mg/l	0.50 mg/l
NA081	Color	Bailer	N	110.2	01/21/99 00:00	15 pcu	5.0 pcu
00620	Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665	Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.010 mg/l	0.010 mg/l
00945	Sulfate	Bailer	N	300.0	01/22/99 00:00	38 mg/l	0.50 mg/l
70300	Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	64 mg/l	20 mg/l
Metals							
NA227	Aluminum	Bailer	N	3010/6010	01/25/99 00:00	1.9 mg/l	0.050 mg/l
01002	Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007	Barium	Bailer	N	3010/6010	01/25/99 00:00	0.046 mg/l	0.010 mg/l
01012	Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027	Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032	Calcium	Bailer	N	3010/6010	01/25/99 00:00	7.1 mg/l	0.10 mg/l
01034	Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042	Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045	Iron	Bailer	N	3010/6010	01/25/99 00:00	1.2 mg/l	0.050 mg/l
001051	Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033	Magnesium	Bailer	N	3010/6010	01/25/99 00:00	3.4 mg/l	0.050 mg/l
001055	Manganese	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228	Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067	Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034	Potassium	Bailer	N	3010/6010	02/01/99 00:00	1.1 mg/l	0.50 mg/l
001147	Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077	Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929	Sodium	Bailer	N	3010/6010	01/25/99 00:00	13 mg/l	0.50 mg/l
001087	Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092	Zinc	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
71900	Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-13
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-13
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 13:20
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	1.9 mg/l	0.60 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	11.8+/-0.9 pCi/l	0.50 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-14
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: MW-14
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 15:00
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	68lumhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	5.58 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	6.2pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	24.5 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	0.940 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	02/27/99 00:00	13 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	120 pcu	25 pcu
00620 Nitrate	Bailer	N	300.0	02/27/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	<0.010 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	02/27/99 00:00	6.6 mg/l	0.50 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	410 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	01/25/99 00:00	<0.050 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	01/25/99 00:00	0.10 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	01/25/99 00:00	120 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	01/25/99 00:00	0.41 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	01/25/99 00:00	4.0 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	01/25/99 00:00	0.018 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	8.6 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	01/25/99 00:00	8.4 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	01/25/99 00:00	0.014 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-14
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: MW-14
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 15:00
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	7.0 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/27/99 00:00	3.4+/-1.3 pCi/l	1.8 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-15
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: DW-4
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 14:45
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	94.0umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	6.57 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	4.9pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	25.7 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	225 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	9.8 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	50 pcu	5.0 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.066 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	3.9 mg/l	0.50 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	64 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	01/25/99 00:00	2.6 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	01/25/99 00:00	0.074 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
01027 Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	01/25/99 00:00	6.9 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	01/25/99 00:00	0.95 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	01/25/99 00:00	0.88 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	1.2 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	01/25/99 00:00	6.7 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/26/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-15
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: DW-4
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 14:45
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	7.7 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	4.7+/-0.9 pCi/l	0.60 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-16
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: DW-4 Dup
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 14:50
 Report Period: 1st Quarter/1999
 Well Purged: Yes
 Well Type: OTHER
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	Bailer	N	120.1	01/20/99 00:00	94.0umhos/cm	
72020 Depth to Water	Bailer	N	field	01/20/99 00:00	6.57 feet	
000406 Field pH	Bailer	N	150.1	01/20/99 00:00	4.9pH Units	0.10pH Units
000010 Field Temp	Bailer	N	170.1	01/20/99 00:00	25.7 Deg. C	0.100 Deg. C
82078 Field Turbidity	Bailer	N	180.1	01/20/99 00:00	22.5 NTU	
General Chemistry						
00940 Chloride	Bailer	N	300.0	01/22/99 00:00	10 mg/l	0.50 mg/l
NA081 Color	Bailer	N	110.2	01/21/99 00:00	25 pcu	5.0 pcu
00620 Nitrate	Bailer	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	Bailer	N	365.1	01/28/99 00:00	0.053 mg/l	0.010 mg/l
00945 Sulfate	Bailer	N	300.0	01/22/99 00:00	4.0 mg/l	0.50 mg/l
70300 Total Dissolved Solids	Bailer	N	160.1	01/22/99 00:00	58 mg/l	20 mg/l
Metals						
NA227 Aluminum	Bailer	N	3010/6010	01/25/99 00:00	3.3 mg/l	0.050 mg/l
01002 Arsenic	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	Bailer	N	3010/6010	01/25/99 00:00	0.072 mg/l	0.010 mg/l
01012 Beryllium	Bailer	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	Bailer	N	3010/6010	01/25/99 00:00	6.8 mg/l	0.10 mg/l
01034 Chromium	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	Bailer	N	3010/6010	01/25/99 00:00	0.97 mg/l	0.050 mg/l
001051 Lead	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	Bailer	N	3010/6010	01/25/99 00:00	0.86 mg/l	0.050 mg/l
001055 Manganese	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	Bailer	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	Bailer	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	Bailer	N	3010/6010	02/01/99 00:00	1.4 mg/l	0.50 mg/l
001147 Selenium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	Bailer	N	3010/6010	01/25/99 00:00	6.6 mg/l	0.50 mg/l
001087 Vanadium	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	Bailer	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
71900 Mercury	Bailer	N	245.1	01/27/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-16
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: DW-4 Dup
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 14:50
Report Period: 1st Quarter/1999
Well Purged: Yes
Well Type: OTHER
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry 00740 Sulfite	Bailer	N	377.1	01/20/99 00:00	7.7 mg/l	0.10 mg/l
General Chemistry 01502 Gross Alpha	Bailer	N	900.0	01/26/99 00:00	5.5+/-0.5 pCi/l	0.30 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-17
 Facility GMS #: 3005M00599
 Test Site ID #: NA
 Site Name: OUC-SEC Qrtly. Wells
 Well Name: Equip. Blank
 GW Elevation (NGVD):
 or (MSL): NA

Date Sampled: 01/20/99 11:00
 Report Period: 1st Quarter/1999
 Well Purged: NA
 Well Type: NA
 Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
Field Services						
000094 Conductivity	NA	N	120.1	01/20/99 00:00	<umhos/cm	
000406 Field pH	NA	N	150.1	01/20/99 00:00	7.4pH Units	0.10pH Units
000010 Field Temp	NA	N	170.1	01/20/99 00:00	28.8 Deg. C	0.100 Deg. C
82078 Field Turbidity	NA	N	180.1	01/20/99 00:00	0.0200 NTU	
General Chemistry						
00940 Chloride	NA	N	300.0	01/22/99 00:00	<0.50 mg/l	0.50 mg/l
NA081 Color	NA	N	110.2	01/21/99 00:00	<5.0 pcu	5.0 pcu
00620 Nitrate	NA	N	300.0	01/22/99 00:00	<0.050 mg/l	0.050 mg/l
00665 Total Phosphorus	NA	N	365.1	01/28/99 00:00	0.020 mg/l	0.010 mg/l
00945 Sulfate	NA	N	300.0	01/22/99 00:00	<0.50 mg/l	0.50 mg/l
70300 Total Dissolved Solids	NA	N	160.1	01/22/99 00:00	<10 mg/l	10 mg/l
Metals						
NA227 Aluminum	NA	N	3010/6010	01/25/99 00:00	0.062 mg/l	0.050 mg/l
01002 Arsenic	NA	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001007 Barium	NA	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
01012 Beryllium	NA	N	3010/6010	01/25/99 00:00	<0.0040 mg/l	0.0040 mg/l
01027 Cadmium	NA	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82032 Calcium	NA	N	3010/6010	01/25/99 00:00	0.11 mg/l	0.10 mg/l
01034 Chromium	NA	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
001042 Copper	NA	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001045 Iron	NA	N	3010/6010	01/25/99 00:00	<0.050 mg/l	0.050 mg/l
001051 Lead	NA	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82033 Magnesium	NA	N	3010/6010	01/25/99 00:00	<0.050 mg/l	0.050 mg/l
001055 Manganese	NA	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
NA228 Molybdenum	NA	N	3010/6010	02/01/99 00:00	<0.050 mg/l	0.050 mg/l
1067 Nickel	NA	N	3010/6010	01/25/99 00:00	<0.0050 mg/l	0.0050 mg/l
82034 Potassium	NA	N	3010/6010	02/01/99 00:00	<0.50 mg/l	0.50 mg/l
001147 Selenium	NA	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001077 Silver	NA	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
000929 Sodium	NA	N	3010/6010	01/25/99 00:00	<0.50 mg/l	0.50 mg/l
001087 Vanadium	NA	N	3010/6010	01/25/99 00:00	<0.010 mg/l	0.010 mg/l
001092 Zinc	NA	N	3010/6010	01/25/99 00:00	0.016 mg/l	0.010 mg/l
71900 Mercury	NA	N	245.1	01/27/99 00:00	<0.00050 mg/l	0.00050 mg/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
 DER form 17-522.900(2) Effective: April, 1994

PARAMETER MONITORING REPORT

Order #: L33593-17
Facility GMS #: 3005M00599
Test Site ID #: NA
Site Name: OUC-SEC Qrtly. Wells
Well Name: Equip. Blank
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 01/20/99 11:00
Report Period: 1st Quarter/1999
Well Purged: NA
Well Type: NA
Groundwater Class: GII

Storet Parameter Code Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limit/Units
General Chemistry						
00740 Sulfite	NA	N	377.1	01/20/99 00:00	<0.10 mg/l	0.10 mg/l
General Chemistry						
01502 Gross Alpha	NA	N	900.0	01/26/99 00:00	<0.6+/-0.3 pCi/l	0.60 pCi/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

USBIO SYSTEMS

Log# 33593

Quote#

Samples INTACT upon arrival? YES NO
 Received ON WET ICE? YES NO
 PROPER PRESERVATION maintained? YES NO
 Received WITHIN HOLDING TIMES? YES NO
 CUSTODY SEALS INTACT? YES NO
 VOLATILES rec'd W/OUT HEADSPACE? YES NO
 PROPER CONTAINERS used? YES NO

Company Name *US Biosystems* PO# *01700*

Address

City State Zip

Attn: Fax#

Project Name Proj#

Sampler Name/Signature *[Signature]* Phone#

LAB ANALYSIS

Sample																				
pH																				
Pres Codes																				
Parameters																				

Field Filtered (Y/N)
 Integrity OK (Y/N)

Matrix Codes*

SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H ₂ O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SU Surface Water	O Other

(Please Specify)

Pres/Codes

A. None	G. Na ₂ S ₂ O ₃
B. HNO ₃	H. NaHSO ₄
C. H ₂ SO ₄	I. ICE
D. NaOH	J. MCA/
E. HCL	O. Other
F. MeOH	

Sample Label	Collection Date	Collection Time	Matrix Code*	Sample Container
Client (P)	Date	Time	Code*	Label Size
M-1	1/20/99	1620	600	3
M-2		1640		
M-3		1600		
M-4		1530		
M-5		1420		
M-6		1350		
M-7		1335		
M-8		1210		
M-9		1130		
M-10		1220		

GA

STANDARD RUSH Short Hold QA/QC Report Level COC OK Initials Specific State Certification Required

Y/N Date required Y N None 1 2 3 Other Y N

Coolers #'s	Item	Relinquished by	Date	Time	Received by	Date	Time
	170	<i>[Signature]</i>	1/22/99	12:05	<i>[Signature]</i>	1/22/99	12:05

3231 N.W. 7th Avenue
 Boca Raton, FL 33431
 888-862-LABS
 561-447-7373
 888-456-4846 Fax
 561-447-6136 Fax

USBiosYSTEMS

Log# 33593

Quote#

Samples INTACT upon arrival?
Received ON WET ICE?
PROPER PRESERVATIVES in use?
Received WITHIN HOLDING TIMES?
CUSTODY SEALS INTACT?
VOLATILES rec'd W/OUT HEADSPACE?
PROPER CONTAINERS used?

Company Name: US BIOSYSTEMS, PO# 01700
Address:
City, State, Zip:
Phone:
Fax:
Project Name:
Project #:
Sampler Name/Signature:
Phone#:

LAB ANALYSIS

Table with columns: Sample, pH, Pres Codes, Parameters, Matrix, Sample Container, and rows for samples 1-17.

Matrix Codes*
SD Solid Waste, OL Oil, GW Ground Water, SL Sludge, EFF Effluent, SO Soil Sediment, AFW Analyte Free H2O, AQ Aqueous, WW Waste Water, NA Nonaqueous, DW Drinking Water, PE Petroleum, SU Surface Water, O Other
Pres/Codes
A. None, G. Na2S2O3, B. HNO3, H. NaHSO4, C. H2SO4, I. ICE, D. NaOH, J. MCA/, E. HCL, O. Other, F. MeOH

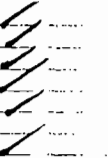
REMARKS

T.A.T. REQUEST, Short Hold, QA/QC Report Level, COC OK, Initials, Specific State Certification Required

Table with columns: Coolers #'s, Item, Relinquished by, Date, Time, Received by, Date, Time. Includes entry for item 11-17.

3231 N.W. 7th Avenue
Boca Raton, FL 33431
888-862-LABS
561-447-7373
888-456-4846 Fax
561-447-6136 Fax

Samples INTACT upon arrival?
 Received ON WET ICE? Temp
 PROPER PRESERVATIVES used?
 Received WITHIN HOLDING TIME?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUT HEADSPACE?
 PROPER CONTAINERS used?



Matrix Codes*

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H ₂ O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SU	Surface Water	O	Other

(Please Spec.)

Pres/Codes

A.	None	G.	Na ₂ S ₂ O ₃
B.	HN ₃	H.	NaHSO ₄
C.	H ₂ SO ₄	I.	ICE
D.	NaOH	J.	MCAA
E.	HCL	O.	Othe
F.	MeOH		

REMARKS

TURB + SO3 DONE
 IN Field

1 of 2

524

LAB ANALYSIS

Sample	pH	Pres Codes	Parameters	Field Filtered (Y/N)	Integrity OK (Y/N)
Q1	07 07 07 02 02		CL, COLOR NO ₃ -N, SO ₄ -C TDS METALS NO ₂ -N, TL.P G-A -SO		

Company Name **OUC - SEC** PO#

Address

City **Orlando** State Zip

Attn: Fax#

Project Name **Q. wells** Proj#

Sampler Name/Signature *[Signature]* Phone#

Sample Label (Client ID)	Collect	Matrix Code*	Sample Container
MU-1	1/20/99 1620	GW	3 032901608
MU-2	1640		
MU-3	1600		
MU-4	1530		
MU-5	1620		
MU-6	1350		
MU-7	1335		
MU-8	1200		
MU-9	1130		
MU-10	1220		

T.A.T. REQUEST: STANDARD RUSH Short Hold: Y N

QA/QC Report Level: None 1 2 3 Other

COC OK: Y N Initials: **1/13**

Specific State Certification Required:

Coolers #s	Item	Relinquished by	Date	Time	Received by	Date	Time
	1-10	<i>[Signature]</i>	1/20/99	1750	CO	1/20/99	1750
Bailers					<i>[Signature]</i>	1-21-99	1330

3231 N.W. 7th Avenue
 Boca Raton, FL 33431
 888-862-LABS
 561-447-7373
 888-456-4846 Fax
 561-447-6136 Fax

COC #

Samples INTACT upon arrival?
 Received ON WET ICE?
 PROPER PRESERVATIVE used?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUT HEADSPACE?
 PROPER CONTAINERS used?

Company Name ONE-SEC PO# _____
 Address _____
 City Miami State _____ Zip _____
 Attn: _____ Fax# _____
 Project Name Q Wells Proj# _____
 Sampler Name/Signature [Signature] Phone# _____

LAB ANALYSIS

Sample	pH	Pres Codes	Parameters
01	07.07	02 02	CL. COLOR NO3-N, NO4-N TDS METALS NO3-N, TLP 6-A - SD

Field Filtered (Y/N)
 Integrity OK (Y/N)

Matrix Codes*

SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H ₂ O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SU Surface Water	O Other

Pres/Codes

A. None	G. Na ₂ S ₂ O ₃
B. HNO ₃	H. NaHSO ₄
C. H ₂ SO ₄	I. ICE
D. NaOH	J. MCAA
E. HCL	O. Oth
F. MeOH	

Sample Label (Client ID)	Collection Date	Collection Time	Matrix Code*	Sample Container No.	Sample Size
11 mw-11	1/20/99	1240	6W	3	132016908P
12 mw-12		1310			
13 mw-13		1320			
14 mw-14		1330			
15 DW-4		1445			
16 DW-4 OCP		1450			
17 EQUIP BLANK		1100			

REMARKS

TURBO SO3 Done
 in FIVE field

Zof J

S-2

T.A.T. REQUEST: STANDARD RUSH Short Hold: Y N QA/OC Report Level: None 1 2 3 Other COC OK: Y N Initials: WAB Specific State Certification Required:

Coolers #'s	Item	Relinquished by	Date	Time	Received by	Date	Time
	11-17	[Signature]	1/20/99	1750	[Signature]	1/20/99	1750
						1-21-99	1330

3231 N.W. 7th Avenue
 Boca Raton, FL 33431
 888-862-LABS
 561-447-7373
 888-456-4846 Fax
 561-447-6136 Fax

L33593

BEST AVAILABLE COPY

No. 03324

Groundwater Sampling Worksheet

Client: OUU

Equip. Calibration: Date: _____ Time: _____

Job Site: SEL-

pH: 4.00 _____ 7.00 _____ 10.00 _____

Date: 4/30 Start Time: _____

Slope of pH Calibration: _____

Well Designation: MW-1

Conductivity ($\mu\text{S/cm}$): _____ 1413 _____ 276

Sampler: Mike Patten

Turbidity Std. _____

Time Sampled: 1620

D.O. Stds. _____

Well Measurements:

Well Depth: 2485 feet

Depth to Water: 10.28 feet

Well Diameter: X 2in. ~~X~~ 3in. _____ 4in.

Method for Well Purging: Teflon Bailor _____ Peristaltic Pump _____ Other Sib

Method for Sampling: Teflon Bailor X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:

a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (2485 - 10.28) (0.087) = 2.57 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S/cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>12.0</u>	<u>26.2</u>	<u>2871</u> 262 871	<u>5.68</u>		<u>139.9</u>

Weather Conditions: Sunny Wind Direction: SW 57°

Preservative check: HCL pH= _____ HNO₃ pH= _____ H₂SO₄ pH= _____ Other: SO₃ 64

Sample Appearance: _____

Notes: Trt med Colo Jan odor silica
well went Aug 24

Groundwater Sampling Worksheet

Client: DUC

Job Site: SEL

Date: 4/20 Start Time: _____

Well Designation: AW-2

Sampler: Mike Patten

Time Sampled: 1640

Equip. Calibration: Date: _____ Time: _____

pH: 4.00 _____ 7.00 _____ 10.00 _____

Slope of pH Calibration: _____

Conductivity ($\mu\text{S/cm}$): _____ 1413 _____ 276

Turbidity Std. _____

D.O. Stds. _____

Well Measurements:

Well Depth: _____ feet

Depth to Water: _____ feet

Well Diameter: 2in. 3in. 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other Sub

Method for Sampling: Teflon Bailer Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (3255 - 684) (7.48) = 163 ~~250~~ ^{4.19} gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S/cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>2570</u>	<u>25.5</u>	<u>589</u>	<u>6.64</u>		<u>129</u>

Weather Conditions: Sunny Wind Direction: SW-510

Preservative check: HCL pH= _____ HNO₃ pH= _____ H₂SO₄ pH= _____ Other: SO₂ 1-B

Sample Appearance: _____

Notes: First sign color grey odor slight

Groundwater Sampling Worksheet

Agency: ODC

Job Site: SEL-

Date: 4/20 Start Time: _____

Well Designation: MW 3

Sampler: Mike Patten

Time Sampled: 1600

Equip. Calibration: Date: _____ Time: _____

pH: 4.00 _____ 7.00 _____ 10.00 _____

Slope of pH Calibration: _____

Conductivity ($\mu\text{S/cm}$): _____ 1413 _____ 276

Turbidity Std. _____

D.O. Stds. _____

Well Measurements:

Well Depth: 6.25 feet

Depth to Water: 30.35 feet

Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SLB

Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:

a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (30.35 - 6.25) (0.049) (7.48) = 163 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S/cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>20.0</u>	<u>24.0</u>	<u>159</u> <u>259</u>	<u>5.27</u>		<u>185</u>

Weather Conditions: July Wind Direction: SW 510

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₂ 256

Sample Appearance: _____

Notes: Tint Color odor

Groundwater Sampling Worksheet

Client: OUC

Job Site: SEL-

Date: 4/20 Start Time: _____

Well Designation: mu14

Sampler: Mike Patton

Time Sampled: 1530

Equip. Calibration: Date: _____ Time: _____

pH: 4.00 _____ 7.00 _____ 10.00 _____

Slope of pH Calibration: _____

Conductivity (µS/cm): _____ 1413 _____ 276

Turbidity Std. _____

D.O. Stds. _____

Well Measurements:

Well Depth: 26.55 feet

Depth to Water: 6.63 feet

Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SIB

Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:

a=0.022ft² for a 2 inch well

b=0.049ft² for a 3 inch well

c=0.087ft² for a 4 inch well

Storage Volume=()(26.55 - 6.63)(0.087) = 3.24 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>70.0</u>	<u>25.1</u>	<u>66</u>	<u>5.52</u>		<u>1.62</u>

Weather Conditions: 90 mph Wind Direction: SW - 570

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: Sev, 206

Sample Appearance: _____

Notes: Tray (15) 1500 color grey odor slight

Groundwater Sampling Worksheet

Client: OUIC

Equip. Calibration: Date: _____ Time: _____

Job Site: SEL-

pH: 4.00 _____ 7.00 _____ 10.00 _____

Date: 4/20 Start Time: _____

Slope of pH Calibration: _____

Well Designation: MW-5

Conductivity (µS/cm): _____ 1413 _____ 276

Sampler: Mike Patten

Turbidity Std. _____

Time Sampled: 14:20

D.O. Stds. _____

Well Measurements:

Well Depth: 32.8 feet

Depth to Water: 8.57 feet

Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailor _____ Peristaltic Pump _____ Other SB

Method for Sampling: Teflon Bailor X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:

a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (32.8 - 8.57) (0.049) (7.48) = 1163 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>20.0</u>	<u>25.3</u>	<u>370</u>	<u>4.57</u>		<u>1.79</u>

Weather Conditions: Sunny Wind Direction: SE 5-10

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₂ 5.76

Sample Appearance: _____

Notes: Trt 1/2 hr Color from odor slight

Groundwater Sampling Worksheet

Client: OUIC

Job Site: SEL-

Date: 1/20 Start Time: _____

Well Designation: mw 6

Sampler: Mike Patten

Time Sampled: 1350

Equip. Calibration: Date: _____ Time: _____
 pH: 4.00 _____ 7.00 _____ 10.00 _____
 Slope of pH Calibration: _____
 Conductivity (µS/cm): _____ 1413 _____ 276
 Turbidity Std. _____
 D.O. Stds. _____

Well Measurements:

Well Depth: 32.55 feet
 Depth to Water: 8.58 feet
 Well Diameter : X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other Sub
 Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (32.55 - 8.58) (0.087) = 3.90 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>20.0</u>	<u>26.3</u>	<u>60</u>	<u>4.54</u>		<u>8.41</u>

Weather Conditions: Sunny Wind Direction: SW-5:10

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: PO₂ 1.28

Sample Appearance: _____

Notes: Trt light color green odor slight

Groundwater Sampling Worksheet

Client: OUU

Job Site: SEC-

Date: 4/20 Start Time: _____

Well Designation: MU-7

Sampler: Mike Puffer

Time Sampled: 1335

Equip. Calibration: Date: _____ Time: _____
 pH: 4.00 _____ 7.00 _____ 10.00 _____
 Slope of pH Calibration: _____
 Conductivity (µS/cm): _____ 1413 _____ 276
 Turbidity Std. _____
 D.O. Stds. _____

Well Measurements:

Well Depth: 30.2 feet
 Depth to Water: 4.31 feet
 Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SCB
 Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (30.2 - 4.31) (0.049) (7.48) = _____ gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>25.0</u>	<u>24.9</u>	<u>52</u>	<u>4.65</u>		<u>10.57</u>

Weather Conditions: Sunny Wind Direction: SW 5-10

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₂ 2.56

Sample Appearance: _____

Notes: Treat light color gray odor slight

Groundwater Sampling Worksheet

Client: ODC

Equip. Calibration: Date: _____ Time: _____

Job Site: SEL-

pH: 4.00 _____ 7.00 _____ 10.00 _____

Date: 1/20 Start Time: _____

Slope of pH Calibration: _____

Well Designation: M-8

Conductivity ($\mu\text{S}/\text{cm}$): _____ 1413 _____ 276

Sampler: Mike Patten

Turbidity Std. _____

Time Sampled: 1200

D.O. Stds. _____

Well Measurements:

Well Depth: 248 feet

Depth to Water: 7.56 feet

Well Diameter: X 2in. * 3in. 4in.

Method for Well Purging: Teflon Bailor _____ Peristaltic Pump _____ Other SCB

Method for Sampling: Teflon Bailor X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (248 - 7.56) (0.087) (7.48) = 281 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S}/\text{cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>15.0</u>	<u>25.1</u>	<u>81</u>	<u>4.98</u>		<u>.57</u>

Weather Conditions: Sunny Wind Direction: SW/51°

Preservative check: HCL pH= _____ HNO₃ pH= _____ H₂SO₄ pH= _____ Other: SO₂ 1.08

Sample Appearance: _____

Notes: Tint slight color grey odor slight

Groundwater Sampling Worksheet

Client: DUC
 Job Site: SEL-
 Date: 7/20 Start Time: —
 Well Designation: MU 9
 Sampler: MIKE PATTERSON
 Time Sampled: 1130

Equip. Calibration: Date: _____ Time: _____
 pH: 4.00 _____ 7.00 _____ 10.00 _____
 Slope of pH Calibration: _____
 Conductivity (µS/cm): _____ 1413 _____ 276
 Turbidity Std. _____
 D.O. Sds. _____

Well Measurements:
 Well Depth: 30.25 feet
 Depth to Water: 8.25 feet
 Well Diameter: X 2in. * 3in. _____ 4in.

Method for Well Purging: Teflon Bailor _____ Peristaltic Pump _____ Other SCB
 Method for Sampling: Teflon Bailor X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (30.25 - 8.25) (0.049) (7.48) = 3.58 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>26.0</u>	<u>25.1</u>	<u>53</u>	<u>5.30</u>		<u>1.01</u>

Weather Conditions: SW 5-10 Sunny Wind Direction: SW 5-10

Preservative check: HCL pH= _____ HNO₃ pH= _____ H₂SO₄ pH= _____ Other: SO₃ 128

Sample Appearance: _____

Notes: Just Sign Color tan odor slight

Groundwater Sampling Worksheet

Client: DDC

Equip. Calibration: Date: _____ Time: _____

pH: 4.00 _____ 7.00 _____ 10.00 _____

Slope of pH Calibration: _____

Conductivity ($\mu\text{S}/\text{cm}$): _____ 1413 _____ 276

Turbidity Std. _____

D.O. Stds. _____

Job Site: SEL-

Date: 1/80 Start Time: _____

Well Designation: MW-10

Sampler: Mike Patten

Time Sampled: 1220

Well Measurements:

Well Depth: 30.35 feet

Depth to Water: 6.42 feet

Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SB

Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:

a=0.022ft² for a 2 inch well

b=0.049ft² for a 3 inch well

c=0.087ft² for a 4 inch well

Storage Volume=(_____) (30.35 - 6.42) (0.049) (7.48) = 3.06 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S}/\text{cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>20.0</u>	<u>24.1</u>	<u>44</u>	<u>4.82</u>		<u>1.33</u>

Weather Conditions: Sunny Wind Direction: SW

Preservative check: HCL pH= _____ HNO₃ pH= _____ H₂SO₄ pH= _____ Other: SO₃ 0.64

Sample Appearance: _____

Notes: First Sample Color Tan odor Slight

Groundwater Sampling Worksheet

Client: DUC

Job Site: SEC-

Date: 4/30 Start Time: _____

Well Designation: MW-11

Sampler: Mike Patterson

Time Sampled: 1240

Equip. Calibration: Date: _____ Time: _____
 pH: 4.00 _____ 7.00 _____ 10.00 _____
 Slope of pH Calibration: _____
 Conductivity ($\mu\text{S/cm}$): _____ 1413 _____ 276
 Turbidity Std. _____
 D.O. Stds. _____

Well Measurements:
 Well Depth: 24.9 feet
 Depth to Water: 6.11 feet
 Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other Sub
 Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (24.9 - 6.11) (0.087) (7.48) = 7.06 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S/cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>18.0</u>	<u>24.9</u>	<u>1253</u>	<u>4.45</u>		<u>.98</u>

Weather Conditions: Sunny Wind Direction: SW 5-10

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₂ 1.92

Sample Appearance: _____

Notes: Tint blue color blue odor slight

Groundwater Sampling Worksheet

Client: DUK

Job Site: SEC

Date: 4/20 Start Time: _____

Well Designation: MW-12

Sampler: Mike Patten

Time Sampled: 1310

Equip. Calibration: Date: _____ Time: _____

pH: 4.00 _____ 7.00 _____ 10.00 _____

Slope of pH Calibration: _____

Conductivity ($\mu\text{S/cm}$): _____ 1413 _____ 276

Turbidity Std. _____

D.O. Stds. _____

Well Measurements:

Well Depth: 30.25 feet

Depth to Water: 10.65 feet

Well Diameter: X 2in. * 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SLB

Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (30.25 - 10.65) (.163 / 7.48) = 3.19 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S/cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>18.0</u>	<u>25.6</u>	<u>593</u>	<u>4.26</u>		<u>2.12</u>

Weather Conditions: Sunny Wind Direction: SW 5-10

Preservative check: HCL pH= _____ HNO₃ pH= _____ H₂SO₄ pH= _____ Other: SO₃ 2.56

Sample Appearance: _____

Notes: Tint slight color green odor slight

Groundwater Sampling Worksheet

Client: OUU

Equip. Calibration: Date: _____ Time: _____

Job Site: SEL

pH: 4.00 _____ 7.00 _____ 10.00 _____

Date: 4/00 Start Time: _____

Slope of pH Calibration: _____

Well Designation: mw-13

Conductivity (µS/cm): _____ 1413 _____ 276

Sampler: Mike Patten

Turbidity Std. _____

Time Sampled: 1320

D.O. Stds. _____

Well Measurements:

Well Depth: 28.75 feet

Depth to Water: 8.71 feet

Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SB

Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (28.75 - 8.71) (0.087) (7.48) = 326 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>18.0</u>	<u>25.7</u>	<u>210</u>	<u>4.22</u>		<u>2.44</u>

Weather Conditions: Sunny Wind Direction: SW 510

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₂ 1.92

Sample Appearance: _____

Notes: Trt slight Color grey odor slight

Groundwater Sampling Worksheet

Client: OUU

Job Site: SEC-

Date: 1/20 Start Time: _____

Well Designation: MU-14

Sampler: Mike Patten

Time Sampled: 1500

Equip. Calibration: Date: _____ Time: _____

pH: 4.00 _____ 7.00 _____ 10.00 _____

Slope of pH Calibration: _____

Conductivity (µS/cm): _____ 1413 _____ 276

Turbidity Std. _____

D.O. Stds. _____

Well Measurements:

Well Depth: 30-35 feet

Depth to Water: 5-58 feet

Well Diameter: X 2in. * 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SB

Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____) (30.35 - 5.58) ^{1.163} / (7.48) = 403 gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>22.0</u>	<u>24.5</u>	<u>681</u>	<u>6.23</u>		<u>.94</u>

Weather Conditions: Sunny Wind Direction: SW 516

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₂ - 7.04

Sample Appearance: _____

Notes: Trt Muel Color grey odor slight

Groundwater Sampling Worksheet

Client: OUC

Job Site: SEL

Date: 1/20 Start Time: _____

Well Designation: OU-4

Sampler: Mike Patten

Time Sampled: 1445

Equip. Calibration: Date: _____ Time: _____
 pH: 4.00 _____ 7.00 _____ 10.00 _____
 Slope of pH Calibration: _____
 Conductivity ($\mu\text{S}/\text{cm}$): _____ 1413 _____ 276
 Turbidity Std. _____
 D.O. Stds. _____

Well Measurements: 31.35
 Well Depth: 24.78 feet
 Depth to Water: 6.57 feet
 Well Diameter: X 2in. X 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other Sib
 Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ ft^3) where:
 a=0.022 ft^2 for a 2 inch well b=0.049 ft^2 for a 3 inch well c=0.087 ft^2 for a 4 inch well

Storage Volume=(_____)(31.35 - 6.57) ^{0.087} _(7.48) = 403 gallons

Volume Number	Cumulative Volume(gal)	Temperature ($^{\circ}\text{C}$)	Conductivity ($\mu\text{S}/\text{cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	<u>250</u>	<u>25.7</u>	<u>94</u>	<u>4.91</u>		<u>225</u> <u>7.68</u>

Weather Conditions: Sunny Wind Direction: SW-570

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₃ 7.68

Sample Appearance: _____

Notes: 7.147 ml Color green odor slight

Groundwater Sampling Worksheet

Client: OUC

Job Site: SEC-

Date: 4/20 Start Time: _____

Well Designation: OU-80p

Sampler: Mike Patterson

Time Sampled: 1450

Equip. Calibration: Date: _____ Time: _____

pH: 4.00 _____ 7.00 _____ 10.00 _____

Slope of pH Calibration: _____

Conductivity (µS/cm): _____ 1413 _____ 276 _____

Turbidity Std. _____

D.O. Stds. _____

Well Measurements:

Well Depth: _____ feet

Depth to Water: _____ feet

Well Diameter : 2in. 3in. 4in.

Method for Well Purging: Teflon Bailor _____ Peristaltic Pump _____ Other Sub

Method for Sampling: Teflon Bailor Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:

a=0.022ft² for a 2 inch well

b=0.049ft² for a 3 inch well

c=0.087ft² for a 4 inch well

Storage Volume=(_____) (_____ - _____) (^{1.63} 7.48) = _____ gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity (µS/cm)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5	25.0	25.7	94	4.91		22.5

Weather Conditions: Sunny Wind Direction: SW 570

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other: SO₂ 7.68

Sample Appearance: _____

Notes: Trt anal Color grey odor slight
dup well

Groundwater Sampling Worksheet

Client: DUC

Job Site: SEL

Date: 1/10 Start Time: _____

Well Designation: EAUP Row

Sampler: Mike Patten

Time Sampled: 1100

Equip. Calibration: Date: _____ Time: _____
 pH: 4.00 _____ 7.00 _____ 10.00 _____
 Slope of pH Calibration: _____
 Conductivity ($\mu\text{S/cm}$): _____ 1413 _____ 276
 Turbidity Std. _____
 D.O. Stds. _____

Well Measurements:
 Well Depth: _____ feet
 Depth to Water: _____ feet
 Well Diameter: X 2in. ~~X~~ 3in. _____ 4in.

Method for Well Purging: Teflon Bailer _____ Peristaltic Pump _____ Other SLB
 Method for Sampling: Teflon Bailer X Peristaltic Pump _____ Notes _____

Storage Volume Calculation:

Volume=(a or b or c)(well depth(ft)-depth to water(ft))(7.48 gallons/ft³) where:
 a=0.022ft² for a 2 inch well b=0.049ft² for a 3 inch well c=0.087ft² for a 4 inch well

Storage Volume=(_____)(_____ - ^{1.63} _____)(7.48)= _____ gallons

Volume Number	Cumulative Volume(gal)	Temperature (°C)	Conductivity ($\mu\text{S/cm}$)	pH	Dissolved O ₂ (mg/L)	Turbidity (NTU)
0						
1						
2						
3						
4						
5						
		24.8	003	7.44		02

Weather Conditions: _____ Wind Direction: _____

Preservative check: HCL pH= _____ HNO₃ pH _____ H₂SO₄ pH _____ Other SO₂ - 64

Sample Appearance: _____

Notes: Tit none color clear odor none

Attachment B
Water Quality Data:
Makeup Pond, Recycle Basin, Cooling Tower Blowdown

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TestAmerica
INCORPORATED

107 000 0000 P.01/00

April 5, 2001

Page 1

CLIENT: ORLANDO UTILITIES COMMISSION
P.O. BOX 3193
ORLANDO, FL 32801

Order Number: 11722
Project Name: STANTON ENERGY CENTER
Project Number:
Date Received: 03/27/01

ATTN: MARK CORBETT

Sample Identification	Lab Number	Collection Date and Time	
-----	-----	-----	-----
MAKE-UP POND	01-F7822	3/27/01	11:00
RECYCLE BASIN	01-F7823	3/27/01	11:05
BLOWDOWN COOLING TOWER	01-F7824	3/27/01	11:15

Approved By: _____

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

Attachments: chain-of-custody/field sheet

**PRELIMINARY
REPORT**

April 5, 2001

Page 2

CLIENT: ORLANDO UTILITIES COMMISSION
 P.O. BOX 3193
 ORLANDO, FL 32801

ATTN: MARK CORBETT

Order Number: 11722
 Project: STANTON ENERGY CENTER
 Sample ID: MAKE-UP POND
 Lab Number: 01-F7822
 Date Collected: 03/27/01
 Time Collected: 11:00
 Date Received: 03/27/01

**PRELIMINARY
 REPORT**

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
FIELD PARAMETERS										
Temperature, field	22.0		oC			3/27/01	11:00	TA*	170.1	6340
ORGANIC PARAMETERS										
TRPH, IR	< 0.500	U	mg/l	0.500	1	3/30/01	10:00	FA	418.1	6525
METALS										
Aluminum, Total	0.0550		mg/l	0.0500	1	3/29/01	18:07	DM	200.7	6485
Arsenic, Total	< 0.0050	U	mg/l	0.0050	1	3/30/01	13:24	RQ	206.2	6675
Barium, Total	0.0090	I	mg/l	0.0300	1	3/29/01	18:07	DM	200.7	6485
Beryllium, Total	< 0.0040	U	mg/l	0.0040	1	3/29/01	18:07	DM	200.7	6485
Cadmium, Total	0.00040		mg/l	0.00010	1	4/ 3/01	11:29	RQ	213.2	6818
Calcium, Total	43.90		mg/l	0.5000	1	3/29/01	18:07	DM	200.7	6485
Chromium, Total	< 0.0050	U	mg/l	0.0050	1	4/ 3/01	15:08	RQ	218.2	6840
Copper	< 0.0020	U	mg/l	0.0020	1	4/ 2/01	12:34	RQ	220.2	6718
Iron, Total	0.0350		mg/l	0.0300	1	3/29/01	18:07	DM	200.7	6485
Lead, Total	< 0.0030	U	mg/l	0.0030	1	4/ 2/01	17:23	RQ	239.2	6744
Magnesium, Total	8.070		mg/l	0.5000	1	3/29/01	18:07	DM	200.7	6485
Manganese, Total	0.0062	I	mg/l	0.0300	1	3/29/01	18:07	DM	200.7	6485
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	3/29/01	10:04	RQ	245.1	6460
Molybdenum, Total	0.0108	I	mg/l	0.0300	1	3/29/01	18:07	DM	200.7	6485
Nickel, Total	0.0024	I	mg/l	0.0300	1	3/29/01	18:07	DM	200.7	6485
Potassium, Total	27.40		mg/l	0.5000	1	3/29/01	18:07	DM	200.7	6485
Sodium, Total	70.30		mg/l	0.5000	1	3/29/01	18:07	DM	200.7	6485
Vanadium, Total	< 0.0300	U	mg/l	0.0300	1	3/29/01	18:07	DM	200.7	6485
Zinc, Total	0.0503		mg/l	0.0300	1	3/29/01	18:07	DM	200.7	6485
GENERAL PARAMETERS										
pH	9.26		pH Units		1	3/27/01	12:55	IK	150.1	6445
Specific Conductance	597.		umho/cm		1	3/27/01	15:30	FA	120.1	6226
Turbidity	3.50		N.T.U.	0.10	1	3/27/01	16:00	BJR	180.1	6279
Nitrate-N as N	< 0.0200	U	mg/l	0.0200	1	3/27/01	16:10	IK	300.0A	6295
Sulfate	36.6		mg/l	5.00	1	3/27/01	16:10	IK	300.0A	6295
Color	20.		Pt/Co	5	1	3/27/01	14:40	BJR	SM2120B	6217
Total Phosphorus as P	0.370		mg/l	0.005	1	3/29/01	10:55	BJR	365.4	6219
Gross Alpha	< 1.40	+/- .8	pCi/L	1.40		3/31/01		subcon	900.0	6809
Solids, Total Dissolved	416.		mg/l	5.0	1	3/27/01	15:57	RV	160.1	6285
Sulfite	0.10		mg/l	0.10	1	3/27/01	14:15	CV	377.1	6606
Chloride	90.0	J4	mg/l	5.00	1	3/27/01	16:10	IK	300.0A	6295

April 5, 2001

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PRELIMINARY REPORT

CLIENT: ORLANDO UTILITIES COMMISSION
Order No.: 11722
Lab No.: 01-F7822
Sample ID: MAKE-UP POND

LABORATORY REPORT CONTINUED

PRELIMINARY REPORT

April 5, 2001

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CLIENT: ORLANDO UTILITIES COMMISSION
P.O. BOX 3193
ORLANDO, FL 32801

Order Number: 11722
Project: STANTON ENERGY CENTER
Sample ID: RECYCLE BASIN
Lab Number: 01-F7823
Date Collected: 03/27/01
Time Collected: 11:05
Date Received: 03/27/01

ATTN: MARK CORBETT

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
FIELD PARAMETERS										
Temperature, field	22.1		oC			3/27/01	11:05	TA*	170.1	6340
ORGANIC PARAMETERS										
TRPH, IR	< 0.500	U	mg/l	0.500	1	3/30/01	10:00	FA	418.1	6525
METALS										
Aluminum, Total	0.4840		mg/l	0.0500	1	3/29/01	18:25	DM	200.7	6485
Arsenic, Total	0.0738		mg/l	0.0050	1	3/30/01	13:27	RQ	206.2	6675
Barium, Total	0.7380		mg/l	0.0300	1	3/29/01	18:25	DM	200.7	6485
Beryllium, Total	< 0.0040	U	mg/l	0.0040	1	3/29/01	18:25	DM	200.7	6485
Cadmium, Total	0.00610		mg/l	0.00010	1	4/ 3/01	11:37	RQ	213.2	6818
Calcium, Total	2360.		mg/l	10.00	20	4/ 3/01	9:33	DM	200.7	6892
Chromium, Total	0.0082		mg/l	0.0050	1	4/ 3/01	15:11	RQ	218.2	6840
Copper	0.0179		mg/l	0.0020	1	4/ 2/01	12:37	RQ	220.2	6718
Iron, Total	1.067		mg/l	0.0300	1	3/29/01	18:25	DM	200.7	6485
Lead, Total	0.0056		mg/l	0.0030	1	4/ 2/01	17:30	RQ	239.2	6744
Magnesium, Total	1172.		mg/l	10.00	20	4/ 3/01	9:33	DM	200.7	6892
Manganese, Total	3.714		mg/l	0.0300	1	3/29/01	18:25	DM	200.7	6485
Mercury, Total	< 0.00020	U	mg/l	0.00020	1	3/29/01	10:04	RQ	245.1	6460
Molybdenum, Total	0.1090		mg/l	0.0300	1	3/29/01	18:25	DM	200.7	6485
Nickel, Total	0.2470		mg/l	0.0300	1	3/29/01	18:25	DM	200.7	6485
Potassium, Total	606.0		mg/l	0.5000	1	3/29/01	18:25	DM	200.7	6485
Sodium, Total	1748.		mg/l	10.00	20	4/ 3/01	9:33	DM	200.7	6892
Vanadium, Total	< 0.0300	U	mg/l	0.0300	1	3/29/01	18:25	DM	200.7	6485
Zinc, Total	0.4710		mg/l	0.0300	1	3/29/01	18:25	DM	200.7	6485
GENERAL PARAMETERS										
pH	6.29		pH Units		1	3/27/01	12:55	IK	150.1	6445
Specific Conductance	45500		umho/cm		1	3/27/01	15:30	FA	120.1	6226
Turbidity	10.0		N.T.U.	0.10	1	3/27/01	16:00	BJR	180.1	6279
Nitrate-N as N	1.66		mg/l	0.400	20	3/27/01	22:25	IK	300.0A	6295
Sulfate	1580		mg/l	100	20	3/27/01	22:25	IK	300.0A	6295
Color	60.		Pt/Co	5	1	3/27/01	14:40	BJR	SM2120B	6217

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PRELIMINARY REPORT

CLIENT: ORLANDO UTILITIES COMMISSION
 Order No.: 11722
 Lab No.: 01-F7823
 Sample ID: RECYCLE BASIN

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Total Phosphorus as P	0.280		mg/l	0.005	1	3/29/01	10:55	BJR	365.4	6219
Gross Alpha	32.7	+/- 5.8	pCi/L	2.80		4/ 3/01		subcon	900.0	6809
Solids, Total Dissolved	26200		mg/l	5.0	1	3/27/01	15:57	RV	160.1	6285
Sulfite	< 0.10	U	mg/l	0.10	1	3/27/01	14:15	CV	377.1	6606
Chloride	9460		mg/l	500	100	3/27/01	22:43	IK	300.0A	6296

**PRELIMINARY
REPORT**

April 5, 2001

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CLIENT: ORLANDO UTILITIES COMMISSION
P.O. BOX 3193
ORLANDO, FL 32801

Order Number: 11722
Project: STANTON ENERGY CENTER
Sample ID: BLOWDOWN COOLING TOWER
Lab Number: 01-F7824
Date Collected: 03/27/01
Time Collected: 11:15
Date Received: 03/27/01

ATTN: MARK CORBETT

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
FIELD PARAMETERS										
Temperature, field	21.1		oC			3/27/01	11:15	TA*	170.1	6340
ORGANIC PARAMETERS										
TRPH, IR	< 0.500	U	mg/l	0.500	1	3/30/01	10:00	FA	418.1	6525
METALS										
Aluminum, Total	0.6300		mg/l	0.0500	1	3/29/01	18:30	DM	200.7	6485
Arsenic, Total	0.0100		mg/l	0.0050	1	3/30/01	13:31	RQ	206.2	6675
Barium, Total	0.0800		mg/l	0.0300	1	3/29/01	18:30	DM	200.7	6485
Beryllium, Total	< 0.0040	U	mg/l	0.0040	1	3/29/01	18:30	DM	200.7	6485
Cadmium, Total	0.00060		mg/l	0.00010	1	4/ 3/01	11:42	RQ	213.2	6818
Calcium, Total	366.0		mg/l	0.5000	1	3/29/01	18:30	DM	200.7	6485
Chromium, Total	0.0062		mg/l	0.0050	1	4/ 3/01	15:13	RQ	218.2	6840
Copper	0.0152		mg/l	0.0020	1	4/ 2/01	12:40	RQ	220.2	6718
Iron, Total	0.4450		mg/l	0.0300	1	3/29/01	18:30	DM	200.7	6485
Lead, Total	< 0.0030	U	mg/l	0.0030	1	4/ 2/01	17:33	RQ	239.2	6744
Magnesium, Total	71.80		mg/l	0.5000	1	3/29/01	18:30	DM	200.7	6485
Manganese, Total	0.0670		mg/l	0.0300	1	3/29/01	18:30	DM	200.7	6485
Mercury, Total	0.00060		mg/l	0.00020	1	3/29/01	10:04	RQ	245.1	6460
Molybdenum, Total	0.0190	I	mg/l	0.0300	1	3/29/01	18:30	DM	200.7	6485
Nickel, Total	0.0230	I	mg/l	0.0300	1	3/29/01	18:30	DM	200.7	6485
Potassium, Total	231.0		mg/l	0.5000	1	3/29/01	18:30	DM	200.7	6485
Sodium, Total	597.0		mg/l	0.5000	1	3/29/01	18:30	DM	200.7	6485
Vanadium, Total	0.0090	I	mg/l	0.0300	1	3/29/01	18:30	DM	200.7	6485
Zinc, Total	0.4780		mg/l	0.0300	1	3/29/01	18:30	DM	200.7	6485
GENERAL PARAMETERS										
pH	7.71		pH Units		1	3/27/01	12:55	IK	150.1	6445
Specific Conductance	7280		umho/cm		1	3/27/01	15:30	FA	120.1	6226
Turbidity	37.0		N.T.U.	0.10	1	3/27/01	16:00	BJR	180.1	6279
Nitrate-N as N	2.02		mg/l	0.400	20	3/27/01	23:18	IK	300.0A	6295
Sulfate	1460		mg/l	100	20	3/27/01	23:18	IK	300.0A	6295
Color	45.		Pt/Co	5	1	3/27/01	14:40	BJR	SM2120B	6217

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CLIENT: ORLANDO UTILITIES COMMISSION
 Order No.: 11722
 Lab No.: 01-F7824
 Sample ID: BLOWDOWN COOLING TOWER

PRELIMINARY REPORT

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Total Phosphorus as P	2.80		mg/l	0.050	10	3/29/01	10:55	BJR	365.4	6219
Gross Alpha	< 2.80	+/- 1.8	pCi/L	2.80		4/ 3/01		subcon	900.0	6809
Solids, Total Dissolved	4170		mg/l	5.0	1	3/27/01	15:57	RV	160.1	6285
Sulfite	< 0.10	U	mg/l	0.10	1	3/27/01	14:15	CV	377.1	6606
Chloride	921.		mg/l	50.0	10	3/27/01	23:00	IK	300.0A	6296

CLIENT: ORLANDO UTILITIES COMMISSION
Order No.: 11722
Project: STANTON ENERGY CENTER

PRELIMINARY REPORT


Qualifier Definitions:

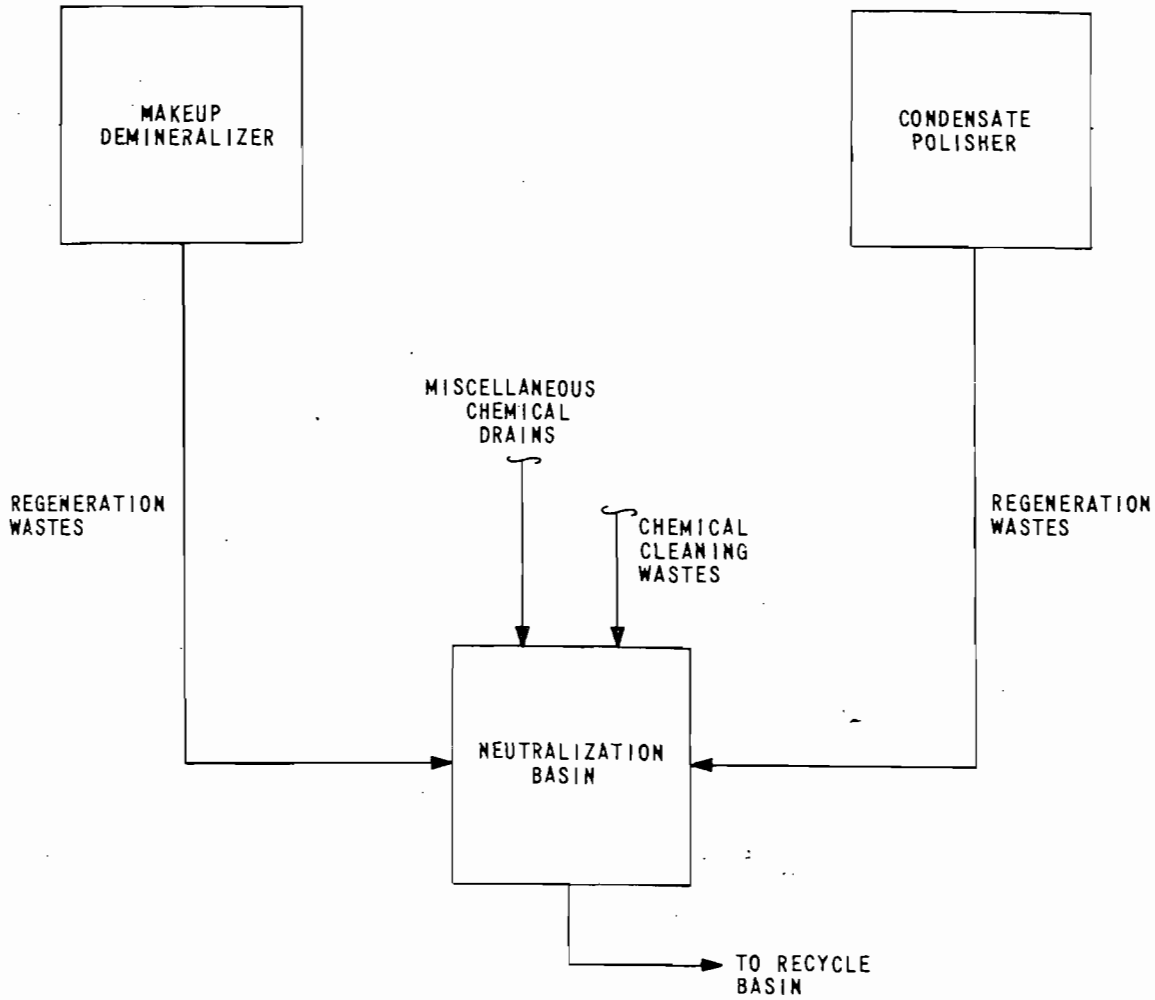
- B = results based upon colony counts outside the acceptable range
- I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- J1 = surrogate recovery limits have been exceeded
- J3 = the reported value failed to meet the established quality control criteria for either precision and/or accuracy
- J4 = the sample matrix interfered with the ability to make an accurate determination
- J5 = the data is questionable because of improper lab or field protocols
- K = off-scale low, actual value is 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
- V = the analyte was detected in both the sample and the associated method blank
- Z = too many colonies present (TNTC)

*TA = sampled by TestAmerica, Inc. Field Services

the # indicates reported value is outside method defined and/or charted laboratory control limit

Attachment C
Waste Collection and Treatment Diagrams

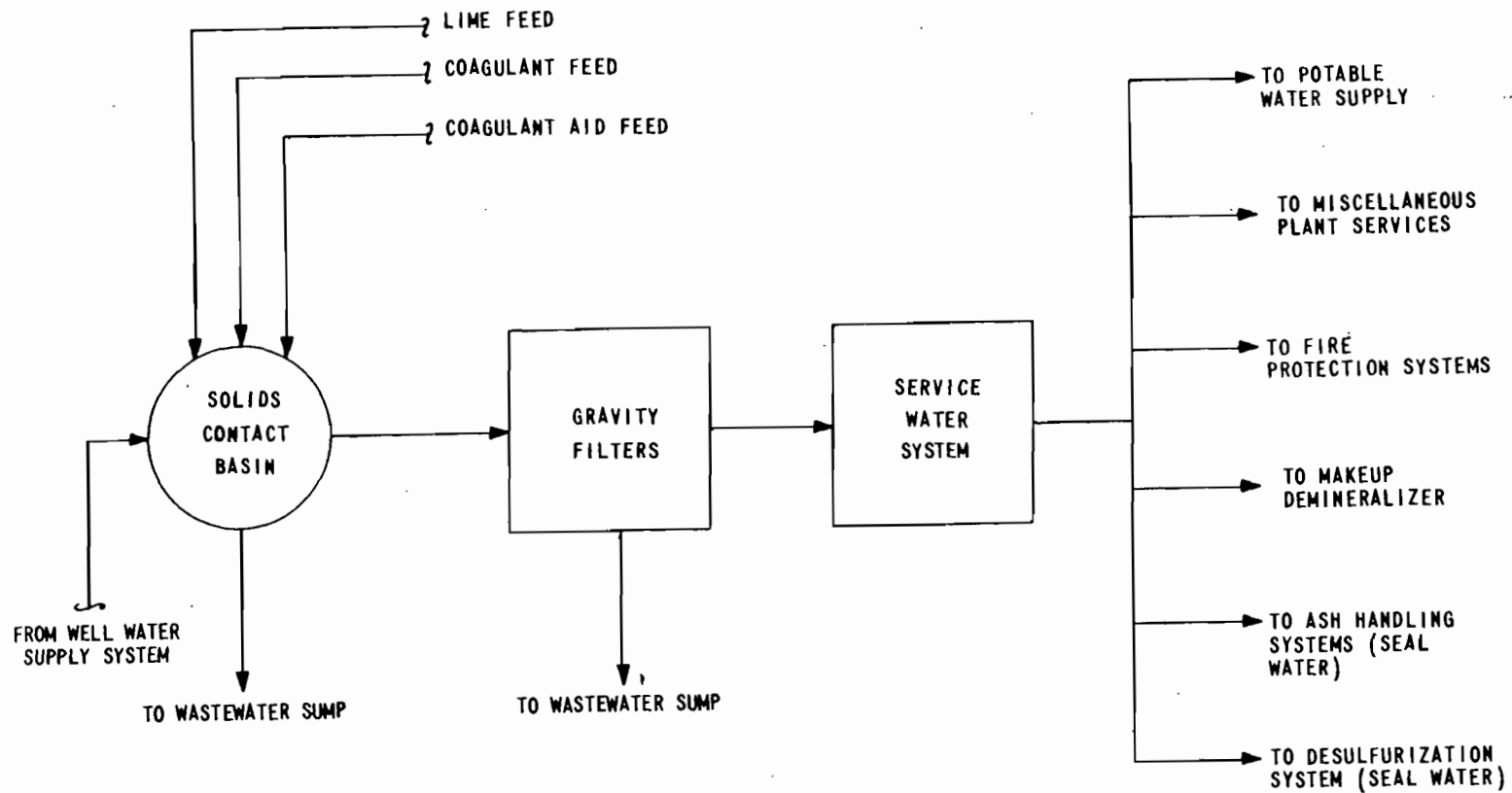
	SYSTEM ANALYSIS	FILE NO. 8927.42.6400
	WASTE COLLECTION AND TREATMENT	OUC 072584-0



CHEMICAL WASTE DRAINAGE AND
TREATMENT SYSTEM SIMPLIFIED FLOW DIAGRAM


FIGURE 3-1


5-10

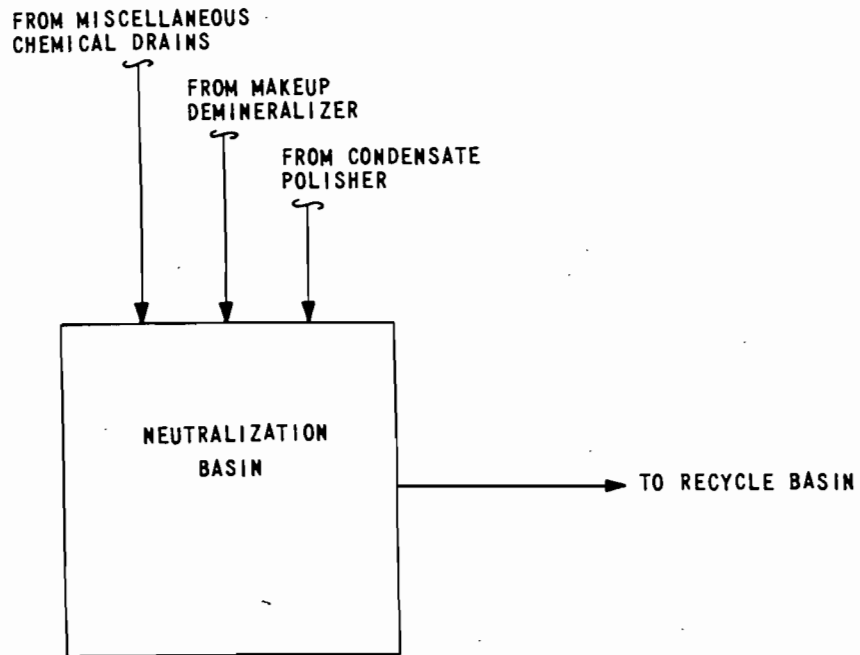


SERVICE WATER TREATMENT SYSTEM
SIMPLIFIED FLOW DIAGRAM

FIGURE 5-7

	
WASTE COLLECTION AND TREATMENT	SYSTEM ANALYSIS
OUC 072584-0	FILE NO. 8927.42.6400

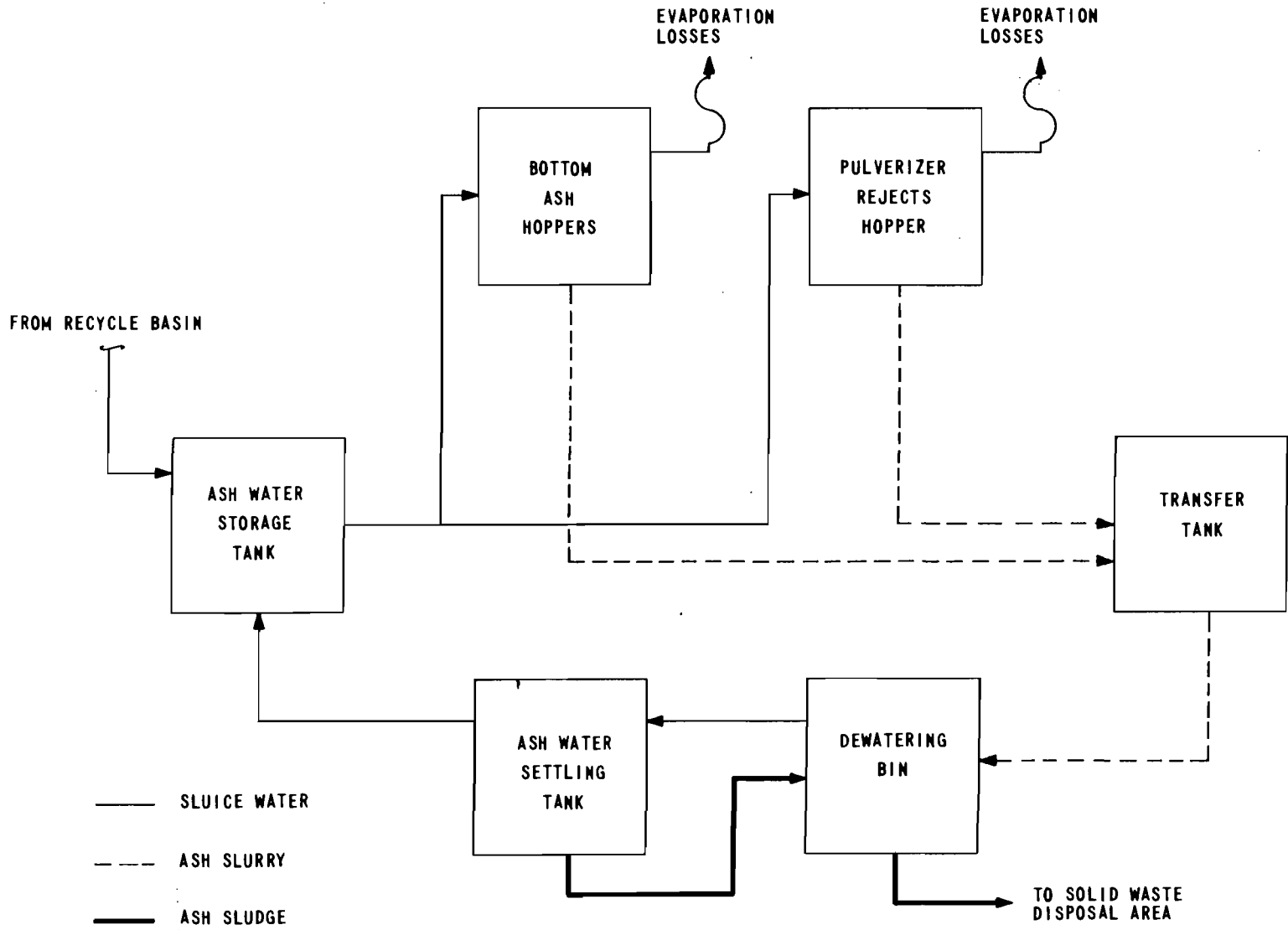
	SYSTEM ANALYSIS	FILE NO. 8927.42.6400
	WASTE COLLECTION AND TREATMENT	OUC 072584-0



NEUTRALIZATION BASIN
SIMPLIFIED FLOW DIAGRAM

FIGURE 5-8

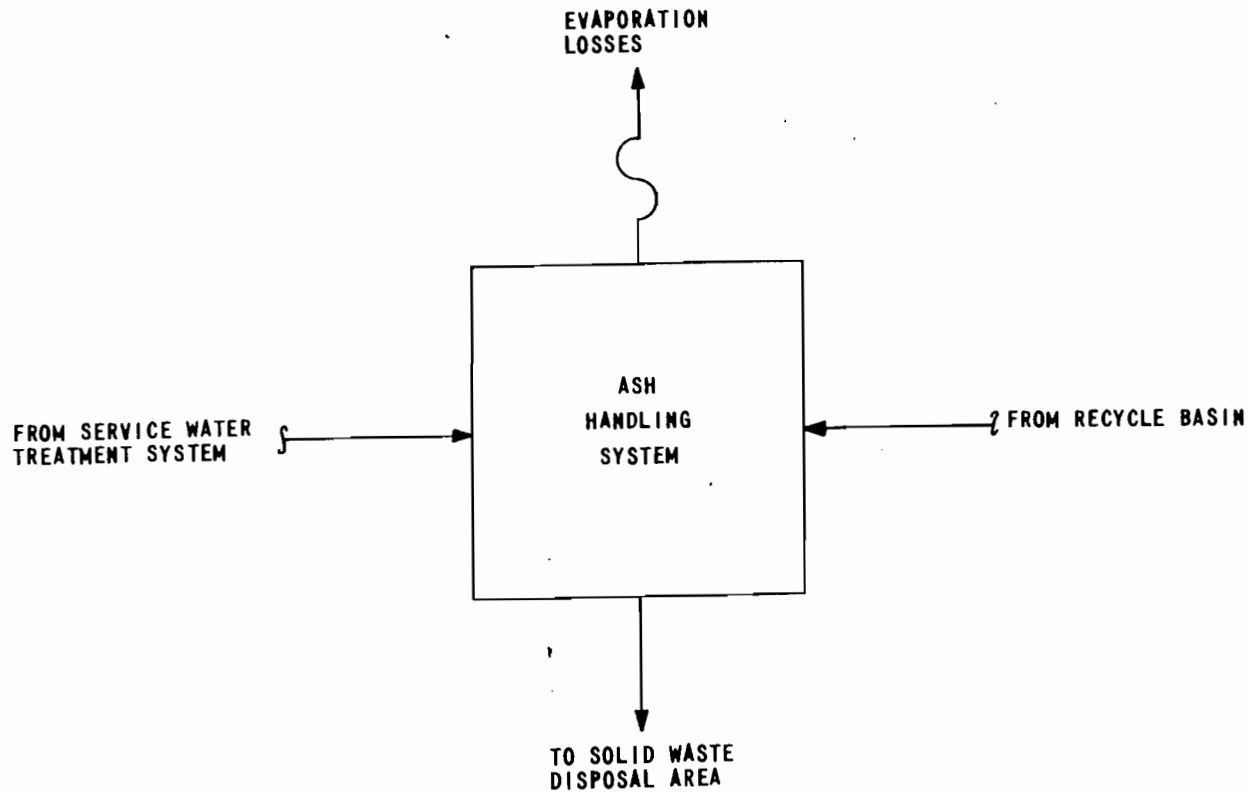
5-17



ASH HANDLING SYSTEM
SIMPLIFIED PROCESS DIAGRAM


FIGURE 5-11

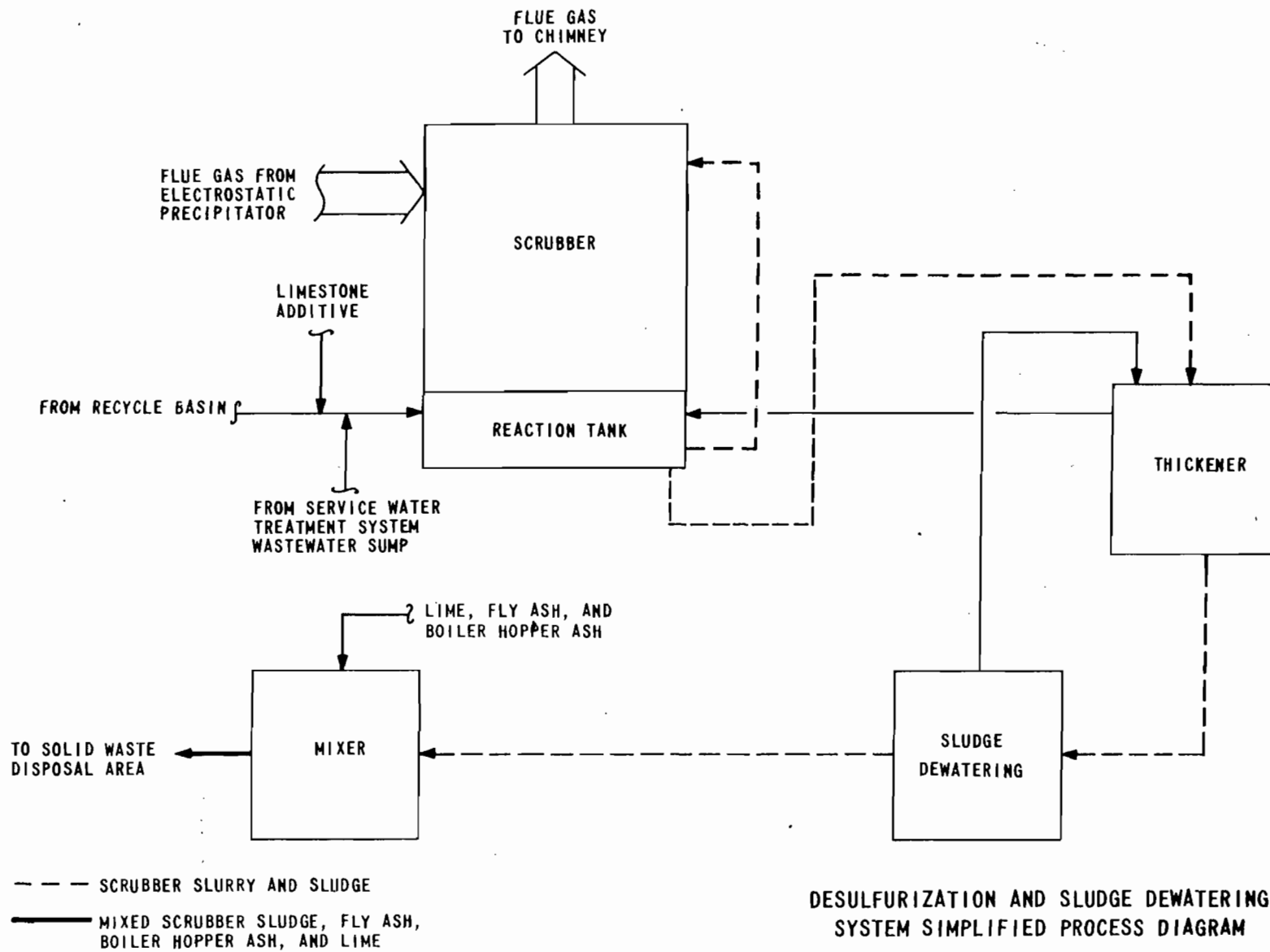
WASTE COLLECTION AND TREATMENT	SYSTEM ANALYSIS
OUC 072584-0	FILE NO. 8927.42.6400



ASH HANDLING SYSTEM
SIMPLIFIED FLOW DIAGRAM


FIGURE 5-12


	
SYSTEM ANALYSIS	FILE NO. 8927.42.6400
WASTE COLLECTION AND TREATMENT	OUC 072584-0

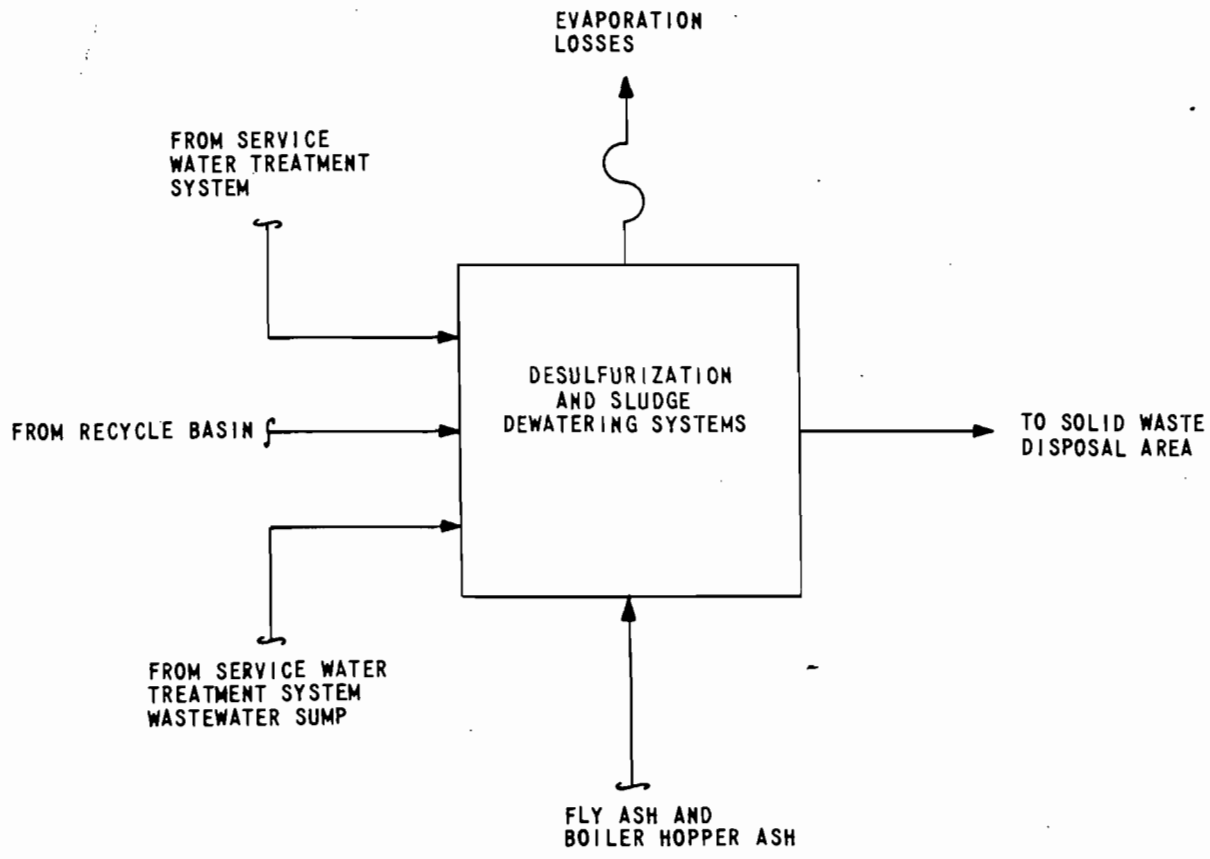


DESULFURIZATION AND SLUDGE DEWATERING SYSTEM SIMPLIFIED PROCESS DIAGRAM

FIGURE 5-13


	
WASTE COLLECTION AND TREATMENT	SYSTEM ANALYSIS
OUC 072584-0	FILE NO. 8927.42.6400

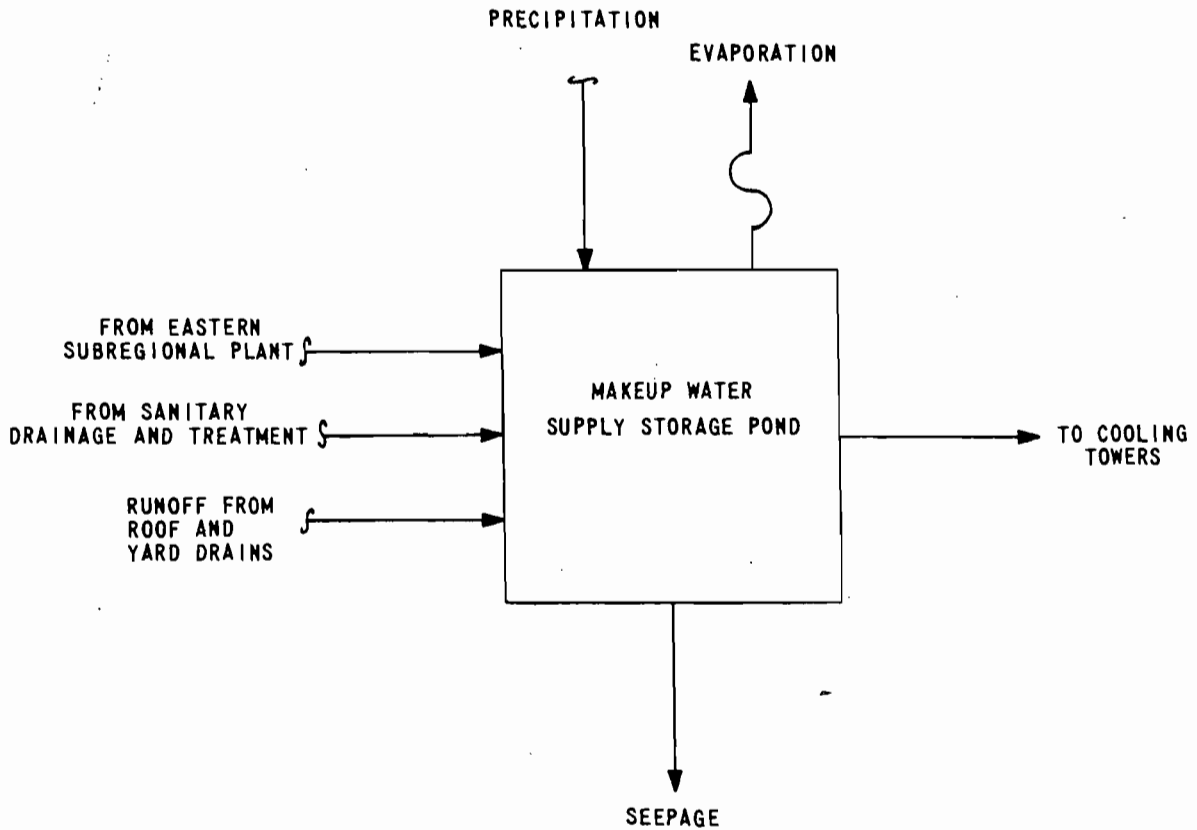
	SYSTEM ANALYSIS	FILE NO. 8927.42.6400
	WASTE COLLECTION AND TREATMENT	OUC 072584-0



DESULFURIZATION SYSTEM
SIMPLIFIED FLOW DIAGRAM


FIGURE 5-14

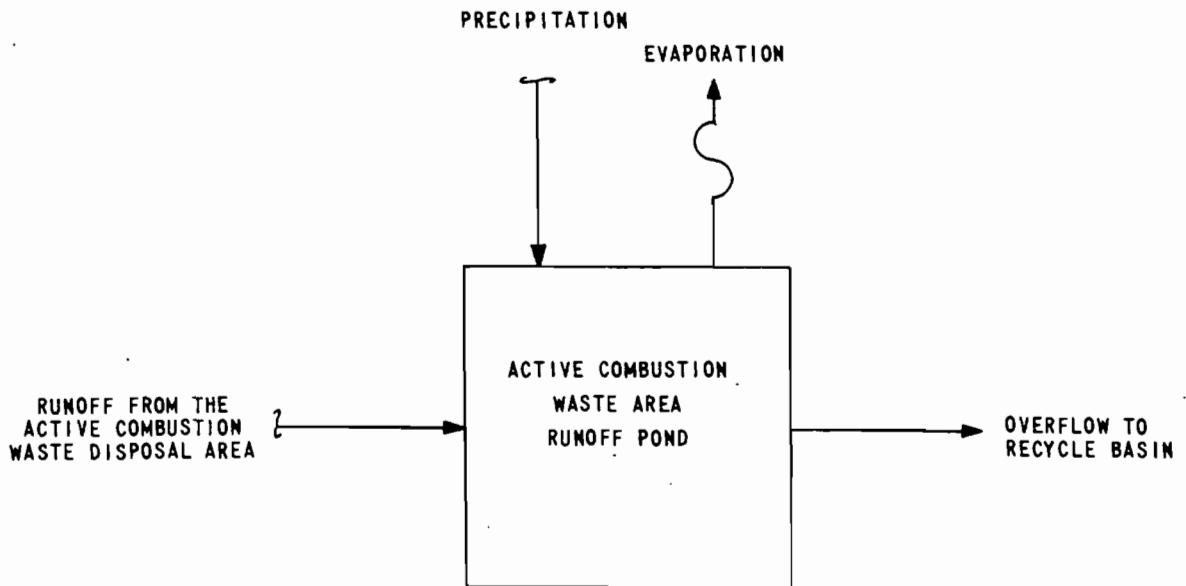
	SYSTEM ANALYSIS	FILE NO. 8927.42.6400
	WASTE COLLECTION AND TREATMENT	OUC 072584-0



SITE RUNOFF RETENTION POND
SIMPLIFIED FLOW DIAGRAM


FIGURE 5-17

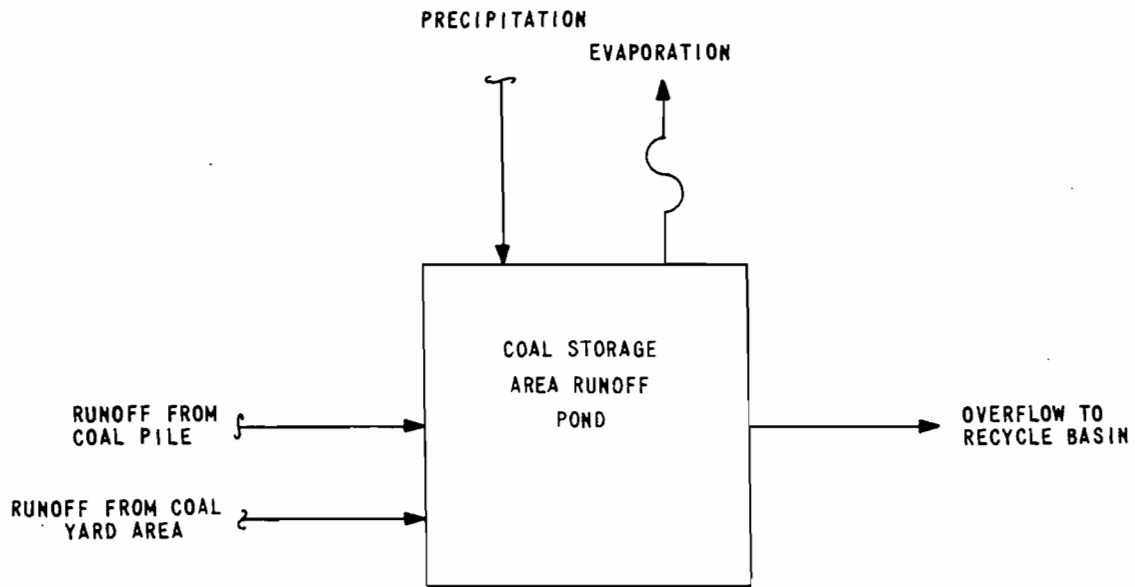
	SYSTEM ANALYSIS	FILE NO. 8927.42.6400
	WASTE COLLECTION AND TREATMENT	OUC 072584-0



ACTIVE COMBUSTION WASTE
AREA RUNOFF POND
SIMPLIFIED FLOW DIAGRAM

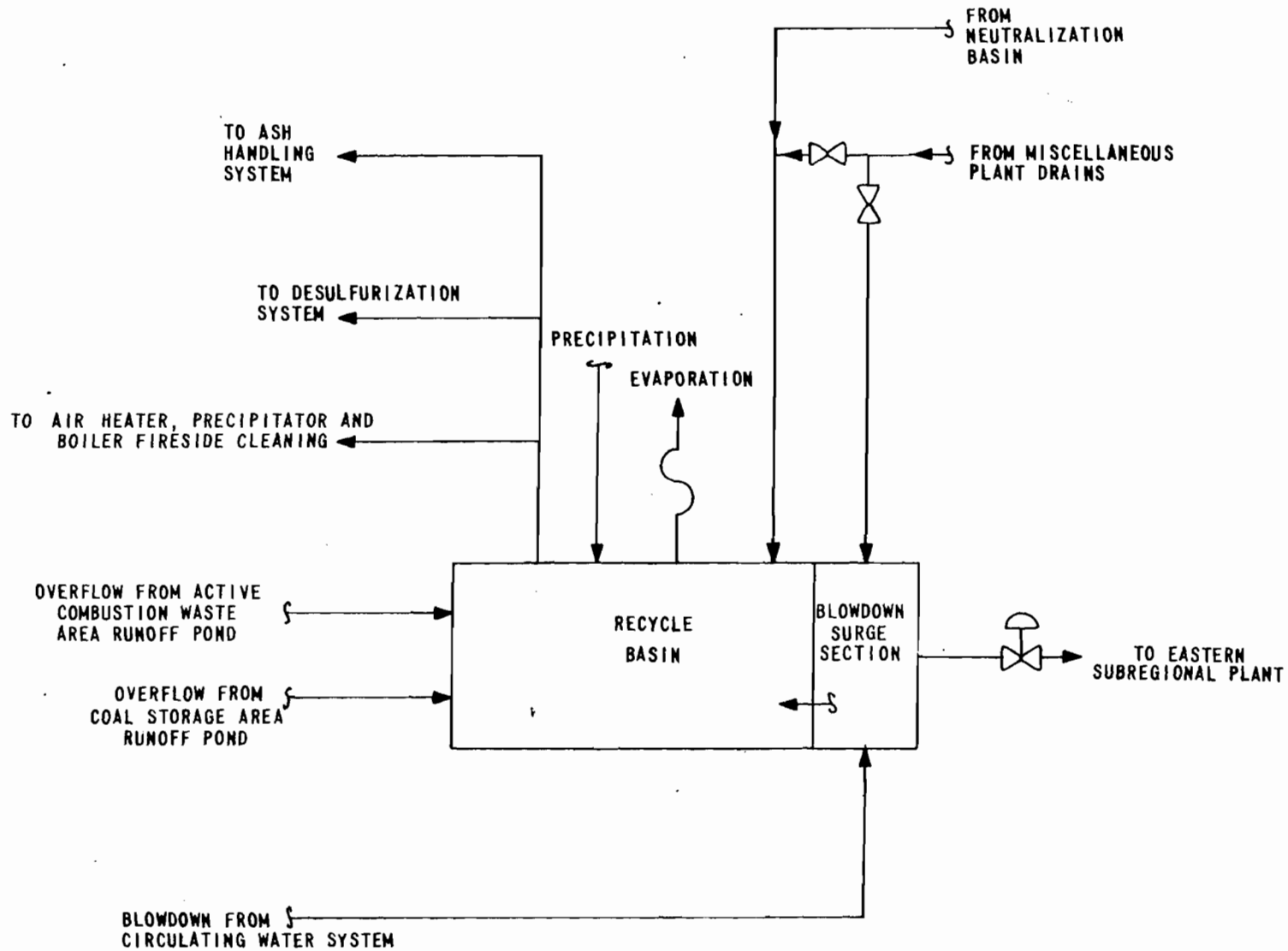
FIGURE 5-18

	SYSTEM ANALYSIS	FILE NO. 8927.42.6400
	WASTE COLLECTION AND TREATMENT	OUC 072584-0



COAL STORAGE AREA RUNOFF POND
SIMPLIFIED FLOW DIAGRAM

5-31



RECYCLE BASIN
SIMPLIFIED FLOW DIAGRAM

FIGURE 5-20

WASTE COLLECTION AND TREATMENT	SYSTEM ANALYSIS
OUC 072584-0	FILE NO. 8927.42.6400

Attachment D
Joint Agency Mitigation Monitoring Plan

**Orlando Utilities Commission
Stanton Energy Center Unit 2
Joint Agency Mitigation Monitoring Plan**

August 5, 1992

**Prepared by
Black & Veatch**

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1.0 Introduction

The Orlando Utilities Commission (OUC) has agreed to a number of mitigation measures regarding eight sites associated with the certification of Unit 2 of the Stanton Energy Center (SEC). This report reviews the monitoring methods that are to be implemented and maintained for a period of five years for each of the mitigation sites. For each of the sites, a definition of successful mitigation to be achieved through monitoring is offered. Also, for each site, the methods for measuring progress are included. An indication of when measuring is to occur and the length of time intervals is discussed. Finally, information is provided that suggests alternatives for correcting unsuccessful results.

Prior to construction of the mitigation features, baseline data sampling will be performed in order to define the existing conditions and have original data with which to make later comparisons of mitigation success.

Three state agencies have jurisdictional wetlands at the SEC. Those agencies are the Florida Department of Environmental Regulation (FDER), the St. Johns River Water Management District (SJRWMD), and the South Florida Water Management District (SFWMD).

2.0 Monitoring Plan

As indicated by the various state agencies, certain general requirements must be met for the monitoring plan. The following items meet more than the minimum requirements of all three state agencies. These items will be conducted wherever they are appropriate to a site. Additional specific details are included within the discussion for each site.

- o Low level infrared aerial photography (approximate scale 1":300') will be taken annually in June. Different chlorophyll contents may indicate vegetation community stress and are readily shown on color IR photographs.
- o Planted cypress will be sampled once annually during the growing season to determine percent mortality. In order to ensure an 80 percent survival rate, replanting shall be performed as needed.
- o Staff gauges and piezometer bores are to be placed within the downstream portion of each sub-basin and inundation or ground water levels recorded monthly.
- o Within each wetland sub-basin, panoramic photographs will be taken annually during the growing season at three selected points.
- o For each herbaceous wetland mitigation site, a qualitative description of the vegetation including dominant species will be recorded. Wetland indicator plant species frequency will be evaluated annually to aid in determination of the success of the hydroperiod enhancement programs.
- o All permanent transects and plots will be examined annually during the growing season.
- o Results of the monitoring program will be submitted annually to the Florida Department of Environmental Regulation. The report will include a brief discussion of the results of the data sampling for each site. Also, the report will include all vegetation sampling data and water sampling data. Infrared and panoramic photographs will be included in the report and any comparative changes that are observed between sets of infrared or panoramic photographs will be discussed.

3.0 Site Descriptions

3.1 Railroad North

Two different community types are to be monitored at this site. Descriptions of the monitoring plans are provided separately for the longleaf pine community sites and the cypress community.

3.1.1 *Planted Pine*

Success in this longleaf pine (*Pinus palustris*) community is defined as maintaining a survivorship of 80 percent throughout the five years of monitoring. The pines will be monitored annually during the growing season by establishing a permanent belt transect 700 feet long that extends five feet both sides of the transect through the seedlings. The young trees will be counted for survivorship. The transect will run east-west across the site, as indicated in Figure 1. If survivorship is shown to fall below 80 percent, then additional seedlings will need to be planted within one month of the transect sampling. The number of seedlings to be planted will equal the number of individual trees that have died. Photographs will be taken prior to planting, and then annually at the center of the transect looking both directions.

If after five years, 80 percent survivorship has not been maintained, the site will need to be examined for the cause(s) of failure. Probable causes to be considered include poor soils, poor water access, or herbivory. Based upon this assessment, an option must be chosen from either replanting with the same species of pine, replanting with a different species of pine, or fencing the site to protect it from faunal destruction.

3.1.2 *Planted Pine Stands for Wildlife Across Corridor*

The creation of separate longleaf pine stands for a wildlife corridor will require the planting of ten 10 to 15 foot tall trees in each stand. Success in these stands is defined as 80 percent survivorship. The trees will be monitored during the growing season by counting the total number of live trees in each stand. If, during the five-year monitoring program, any of the trees should die, it will be replaced with another 10 to 15 foot tall tree within one month of the monitoring. Photographs of each area will be taken prior to planting, and then annually during the growing season.

If after five years, 80 percent survivorship has not been maintained, then the site will be examined for the cause(s) of failure. Probable causes to be considered include poor water access, proximity to railroad, or herbivory. Based upon this assessment, an option must be chosen from either replanting with the same species of pine, replanting with a different species of pine, or fencing the site to protect it from wildlife.

3.1.3 Planted Cypress

Success in this community is defined as maintaining a survivorship of 80 percent throughout the five years of monitoring. The community will be monitored annually during the growing season by sampling two separate belt transects through the seedlings. The northern transect will be 100 feet long; the southern transect will be 200 feet long. The transects will include an area extending five feet to either side of the transect line. The location of the sites is shown in Figure 1. Seedlings within the transect will be counted for survivorship. If survivorship should fall below 80 percent, then additional cypress seedlings will be planted within one month of the sampling. The number of seedlings to be planted will equal the number of individual trees that have died. Photographs will be taken at the center of each transect looking in both directions along each transect.

If after five years, 80 percent survivorship has not been maintained, then the site will need to be examined for the cause(s) of failure. Probable causes to be considered include incorrect hydrology, poor soils, proximity to the railroad, or herbivory. Based upon the results of determining the cause(s) of failure, then an option must be chosen from either controlling the hydrology, replanting with cypress, replanting with another aquatic tree species, or reassessing the expectation for maintaining an 80 percent survival rate.

3.2 Railroad South

Both cypress and slash pine communities will be enhanced at this site.

3.2.1 Planted Cypress

Success in this community is defined as 80 percent survivorship at the fifth year of monitoring. The community will be monitored annually during the growing season by sampling three separate belt transects. Two 300 foot long and

one 600 foot long transects will be established at three locations shown on Figure 2. The sampling area will extend five feet in both directions from the transect line. Cypress seedlings will be counted for survivorship. If survivorship should fall below 80 percent, then additional cypress seedlings must be planted within one month of the sampling. The number of seedlings to be planted will equal the number of trees that have died.

A staff gauge and piezometer bore will be placed near the culvert to be built under the railroad tracks. Readings will be taken monthly. Panoramic photographs will be taken annually during the growing season.

If survivorship is less than 80% at the fifth year review, the site will be examined for the cause(s) of failure.

3.2.2 Planted Pine

Success in this slash pine (*Pinus elliotii*) community is defined as maintaining a survivorship of 80 percent during the five years of monitoring. The pines will be monitored annually during the growing season by establishing three permanent belt transects that extend five feet both sides of the transect through the seedlings. One belt transect will be 500 feet long and will run through the center of the stand that parallels the railroad track. The other two transects will be 300 feet long each and will be located in the RHRZ area immediately to the west of the planted cypress cited in 3.2.1. The locations of the transects are shown on Figure 2. Photographs of the site will be taken prior to planting, and then annually at the center of each transect looking both directions of each transect. The young trees will be counted for survivorship. If survivorship is shown to fall below 80 percent during monitoring, additional seedlings will be planted within one month of the transect sampling. The number of seedlings to be planted will equal the number of individual trees that have died.

If after five years, 80 percent survivorship has not been maintained, the site will be examined for the cause(s) of failure.

3.3 RCW-West (Red Cockaded Woodpecker Area)

Success in this longleaf pine community is defined as achieving a survivorship of 80 percent during the five years of monitoring. The pines will be monitored annually during the growing season by establishing two permanent belt transects that extend five feet both sides of the transect through the seedlings.

The northern transect will run due east-west for 500 feet and the southern transect will run due north-south for 500 feet. The locations of the transects are shown on Figure 3. The young trees will be counted for survivorship. If survivorship falls below 80 percent during monitoring, then additional seedlings will be planted. The number of seedlings to be planted will equal the number of individual trees that have died. Photographs will be taken annually at the center of each transect looking both directions of each transect.

If at the fifth year, 80 percent survivorship has not been achieved, then the site will need to be examined for the cause(s) of failure.

3.4 Transmission Line North

The creation of separate longleaf pine stands for a wildlife corridor will require the planting of ten 10 to 15 foot tall trees in each stand. Success in these stands is defined as 80 percent survivorship. The trees will be monitored in July and January by counting the total number of trees in each stand. If trees die during the five-year monitoring program, each tree will be replanted with another 10 to 15 foot tall tree within one month of the monitoring. Photographs of each stand will be taken annually during the growing season.

If 80 percent survivorship has not been achieved, the site will be examined for the cause(s) of failure.

3.5 Wet Prairies East

Success within this area is defined as enhancement of the hydrology to a level which allows the expansion of existing wetlands into current transition zones, and will be measured in the following manner.

- o An average annual increase in water levels at the fifth year of monitoring.
- o An increase in wetland indicator species' frequency such that the transitional zone of the mitigation area qualifies as a wetland based upon 1992 FDER wetland delineation methods.
- o Aerial infrared photography indications of increased hydrology and increased wetland vegetation.

Water levels within the site will be measured monthly by piezometer or staff gauge within the downstream portion of the sub-basin. Panoramic photographs will be taken prior to enhancement, and then annually at three selected points.

Aerial infrared photographs will be taken annually during the growing season. Wetland indicator species will be monitored for frequency within the transitional areas. The locations for the staff gauge/piezometer and panoramic photographs are indicated on Figure 5.

3.6 RCD Cypress Dome

Success in this community is defined as achieving an 80 percent survivorship of trees during the five-year monitoring program. The cypress will be monitored annually during the growing season by establishing a 30 foot radius near the south end of the site and measuring for survivorship by counting the seedlings. Panoramic photographs will be taken at the center of the circular plot and at two other locations within the site. Locations of the positions for plotting and photographing are indicated on Figure 6. In addition, a staff gauge and piezometer site will be established at the location of the circular plot and measurements will be taken monthly. If annual examination indicates that survivorship of cypress has fallen below 80 percent, then additional cypress seedlings will be planted.

3.7 RCD Herbaceous Wetland Enhancement

This herbaceous wetland enhancement area will be monitored in the same manner as Mitigation Area 3.5.

3.8 The Loop

Success in this area is defined as an overall decrease in the hydroperiod as indicated by an average annual decrease in water levels over the five years of monitoring. A staff gauge and piezometer site will be installed at the upper and lower edges of the currently flooded transitional zone between wetlands and uplands. Water levels or ground water will be measured monthly. The locations for gauges and piezometer sites are indicated on Figure 7. In addition, the proposed resulting decreased hydroperiod may be determined from the color infrared aerial photographs that are to be taken annually.

3.9 South Florida Wetland Creation

Success in this area is defined as the dominance of hydrophytic vegetation within the wetland creation site, such that the vegetation would be defined as hydrophytic, based upon guidelines of the US Fish & Wildlife's National List of Plants that Occur in Wetlands. A transect will be established through each of these wetlands. Meter square plots will be set at fifty foot intervals along the transect. Frequency of wetland and upland species will be measured on an annual basis. If the area does not qualify as having hydrophytic vegetation at the fifth year of monitoring, hydrophytic species will be seeded into the wetland creation site. The site will be reevaluated during the following growing season.

4.0 Conclusion

This report has offered monitoring plans for the various sites associated with the Orlando Utilities Commission, Stanton Energy Center Unit 2 mitigation areas. For each monitoring plan, a discussion of anticipated success results, methods of measuring, temporal aspects of the monitoring, and alternatives for unsuccessful results are included in the text.

This report submits constructive monitoring plans that encourage the success of the mitigation measures.

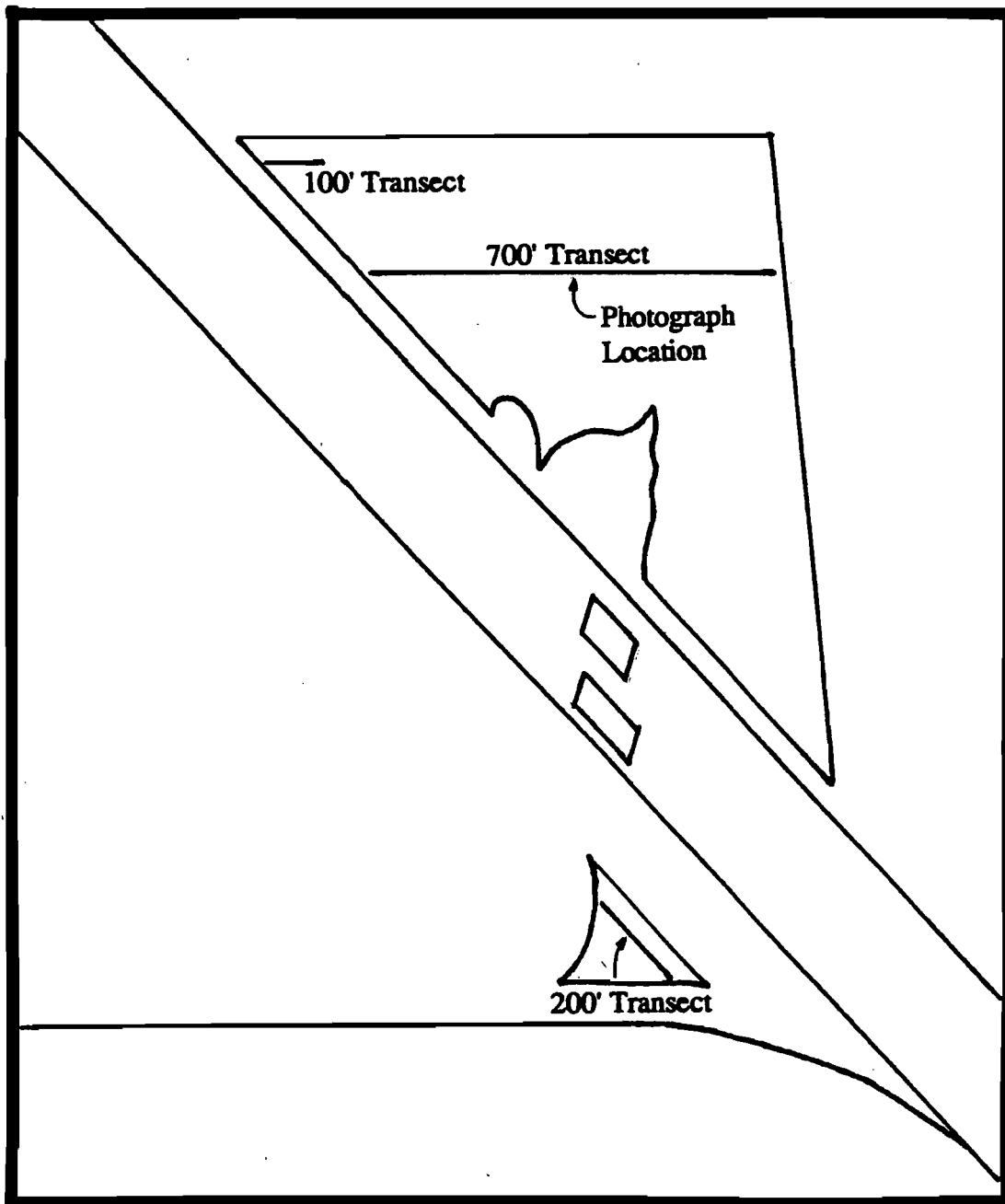


Figure 1. Mitigation Site 3.1: Belt Transect Locations.

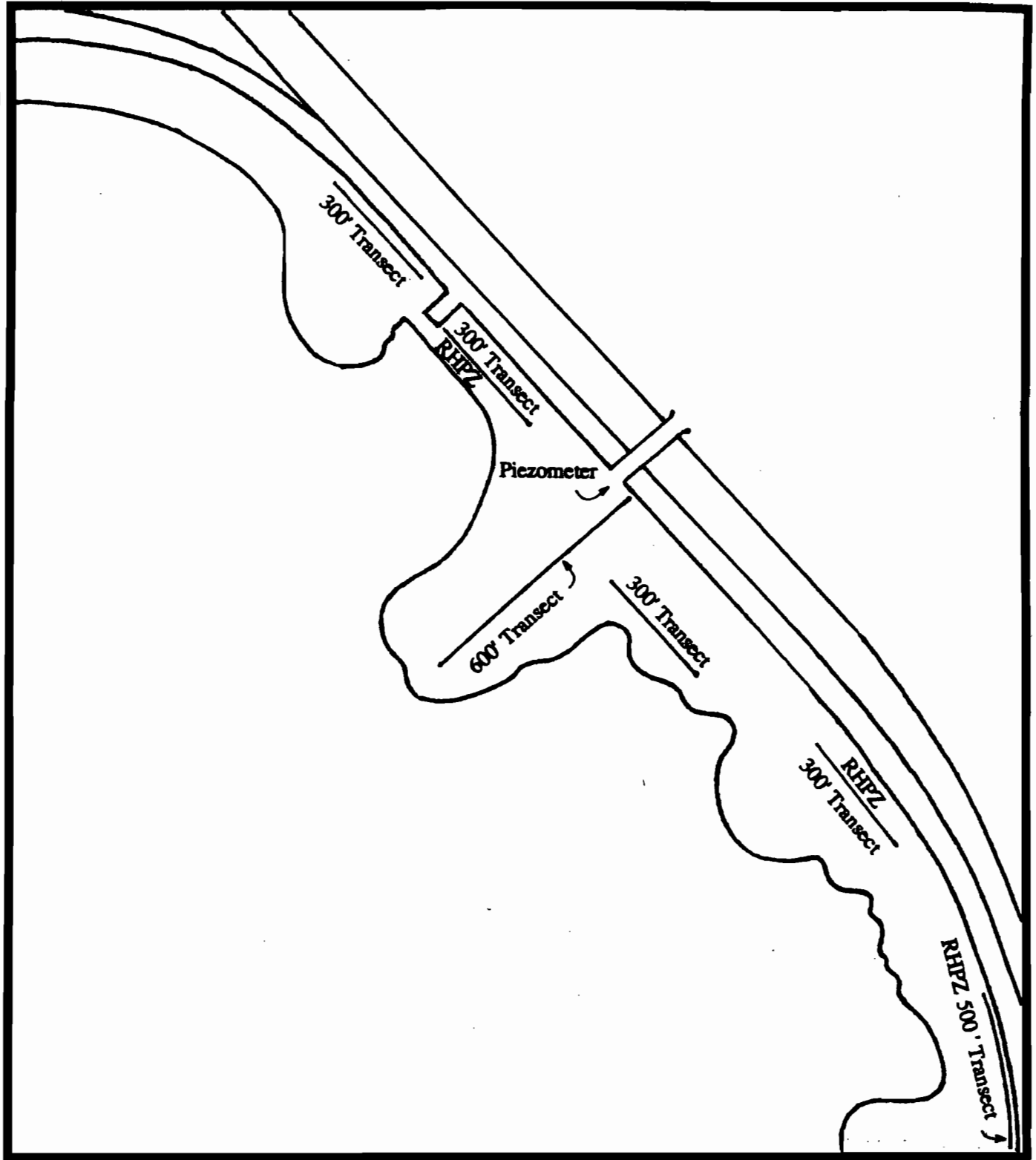


Figure 2. Mitigation Site 3.2 : Belt Transect and Piezometer Locations

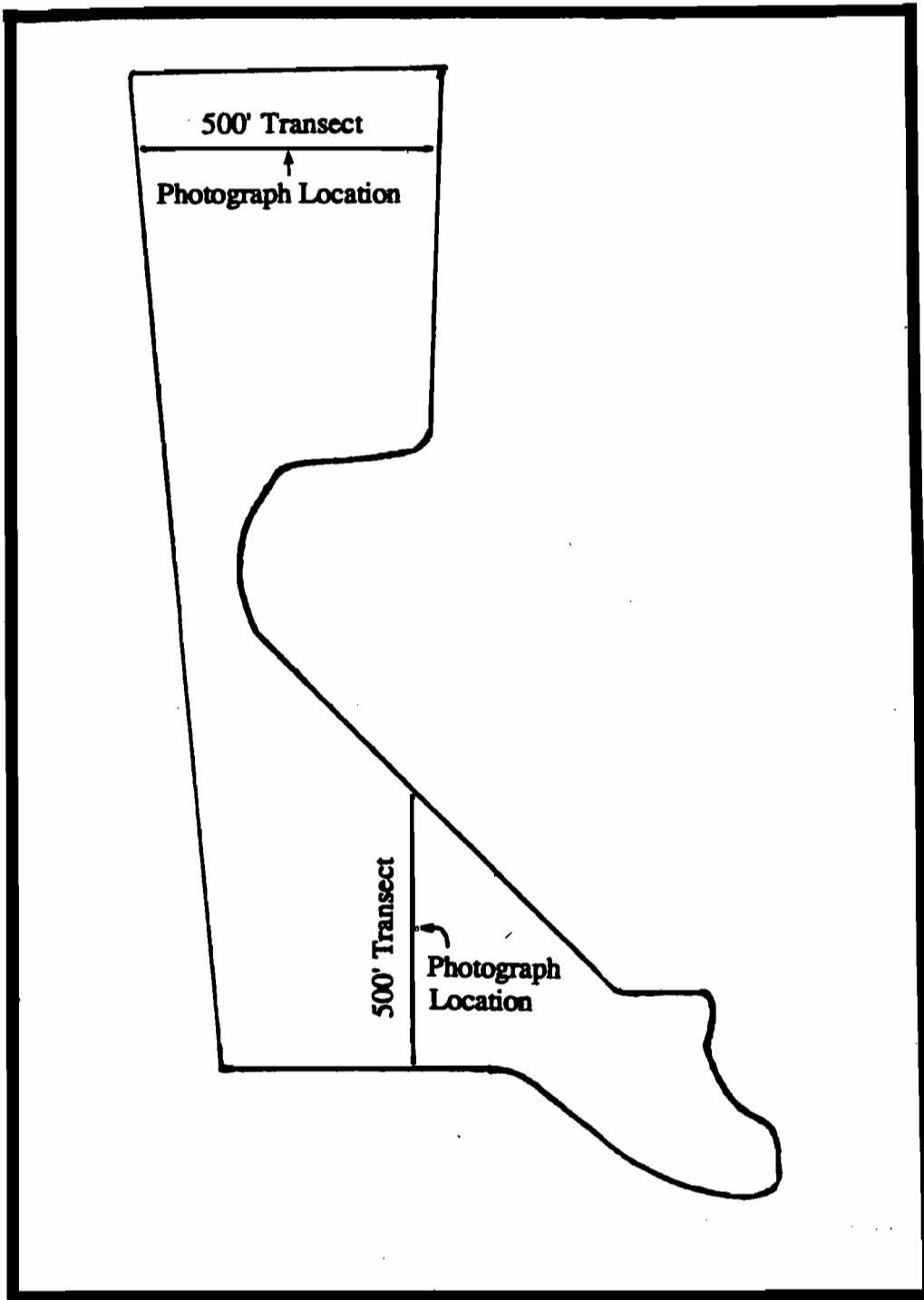


Figure 3. Mitigation Site 3.3 : Belt Transect Locations

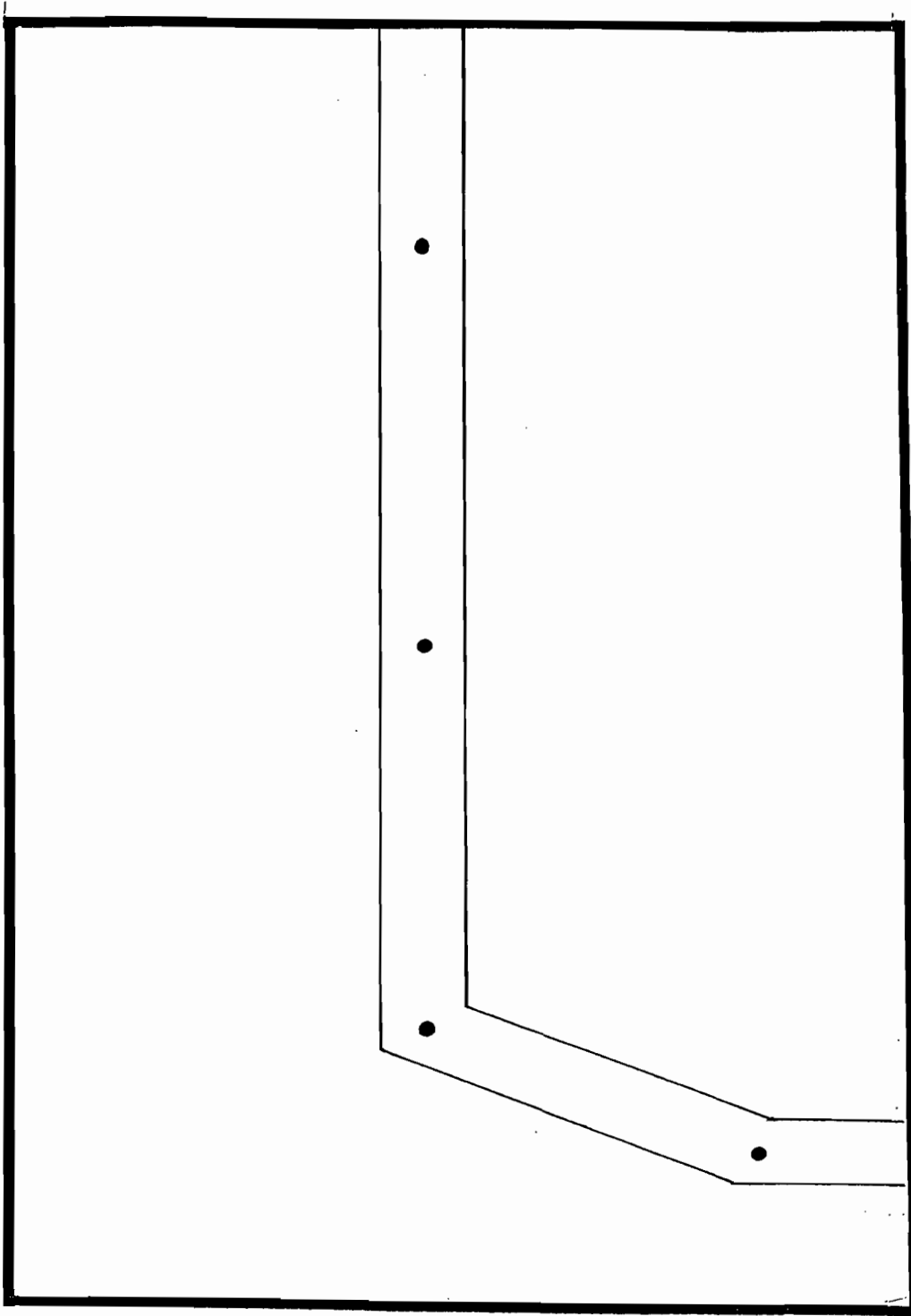


Figure 4. Mitigation Site 3.4 : Pine Plantings Near Transmission Line Structures.

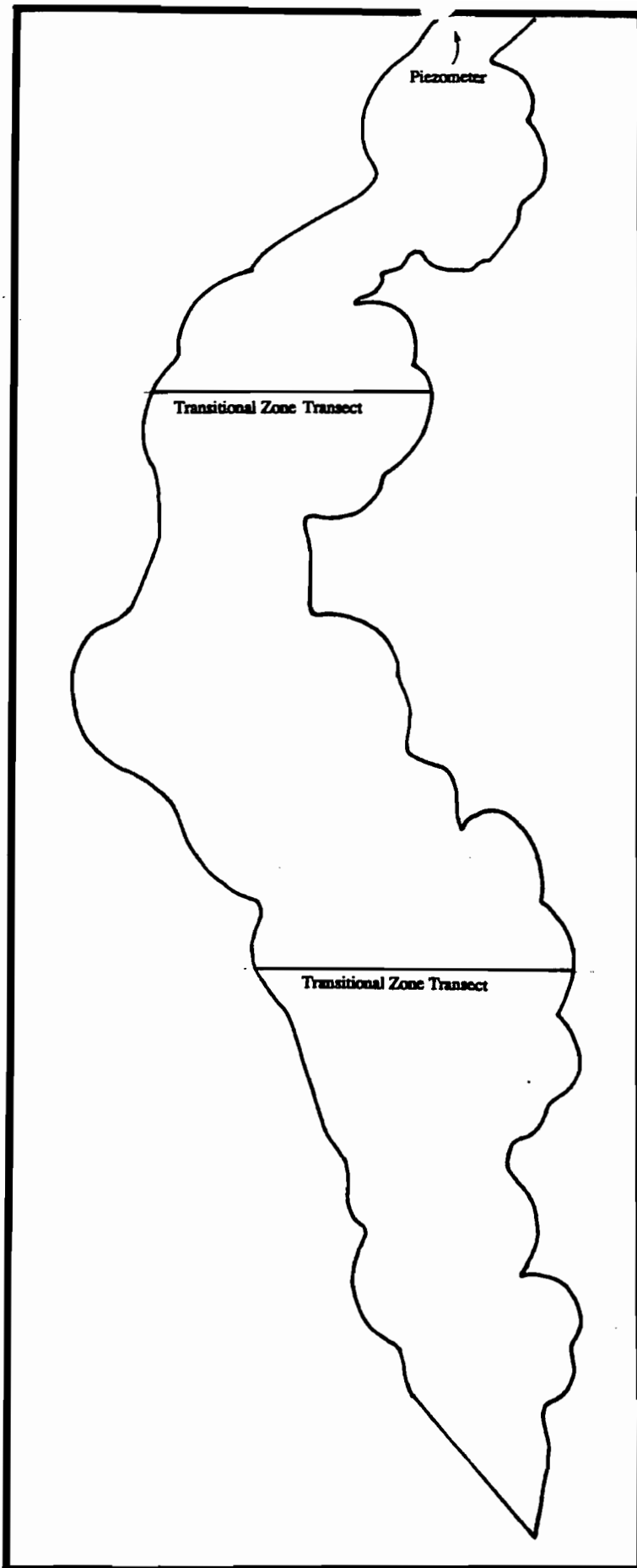


Figure 5. Mitigation Site 3.5: Belt Transect and Piezometer Locations

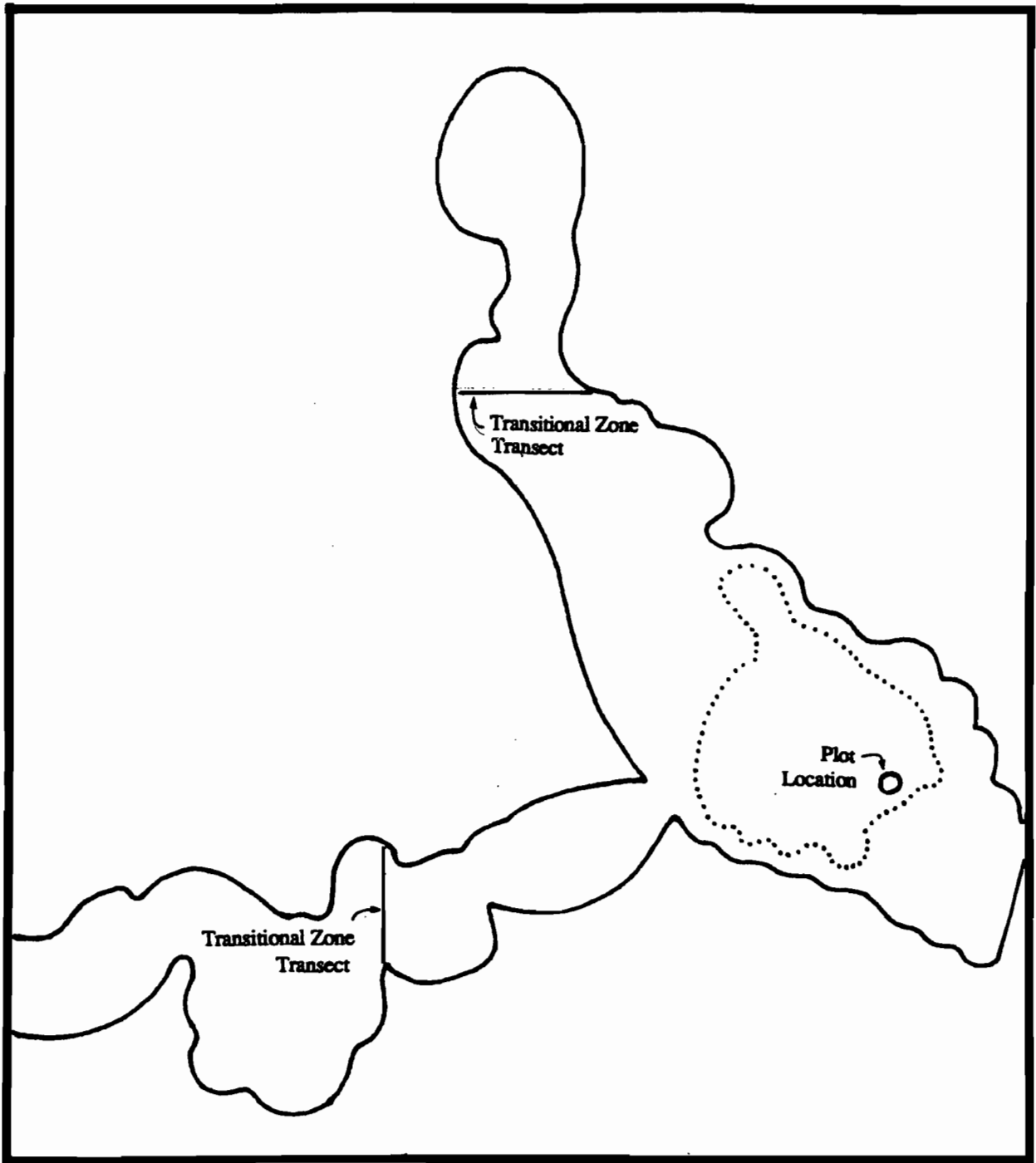


Figure 6. Mitigation Site 3.6: Transect, Plot, and Piezometer Locations

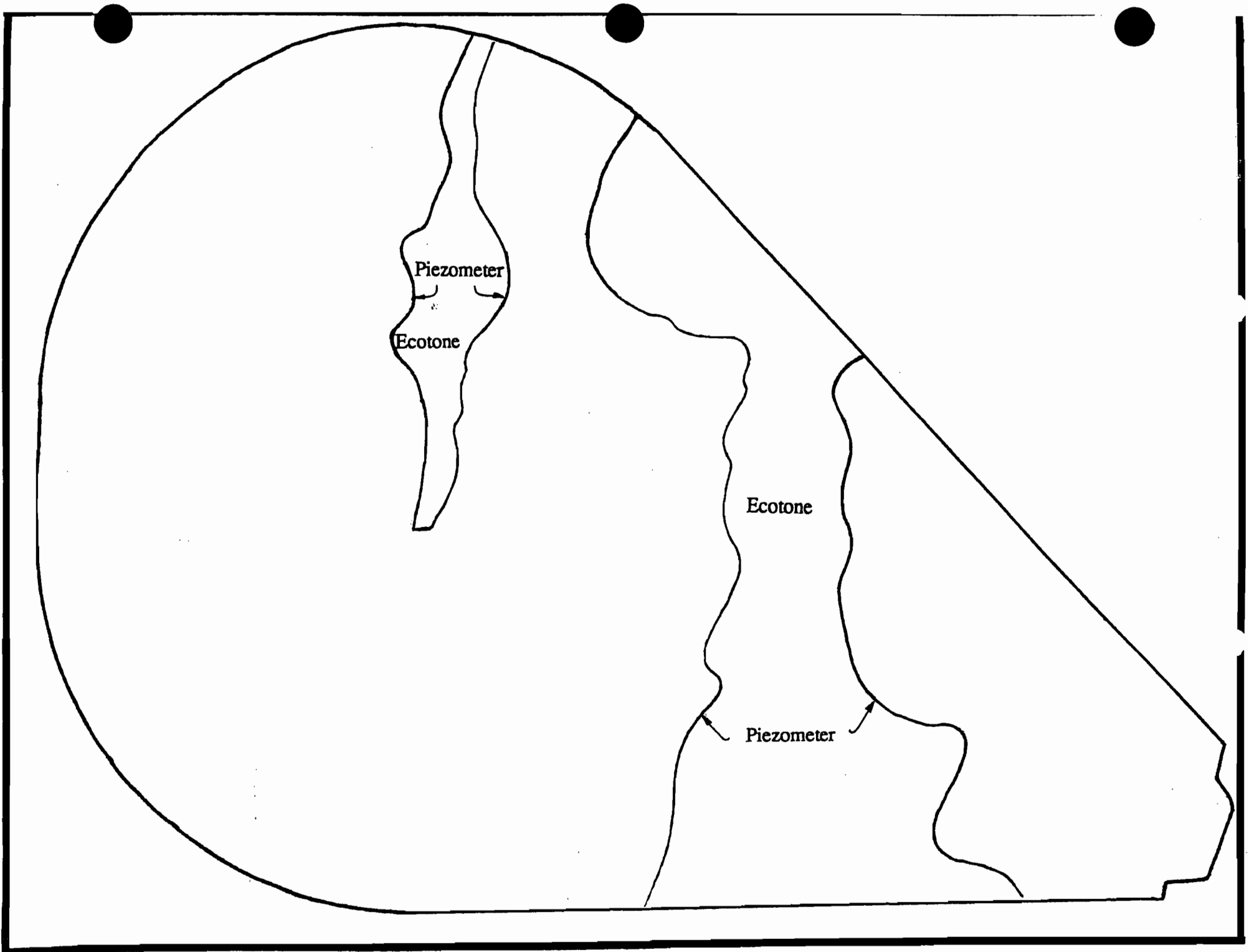
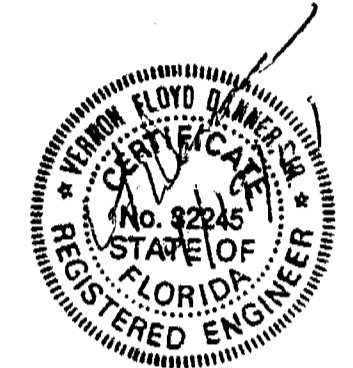
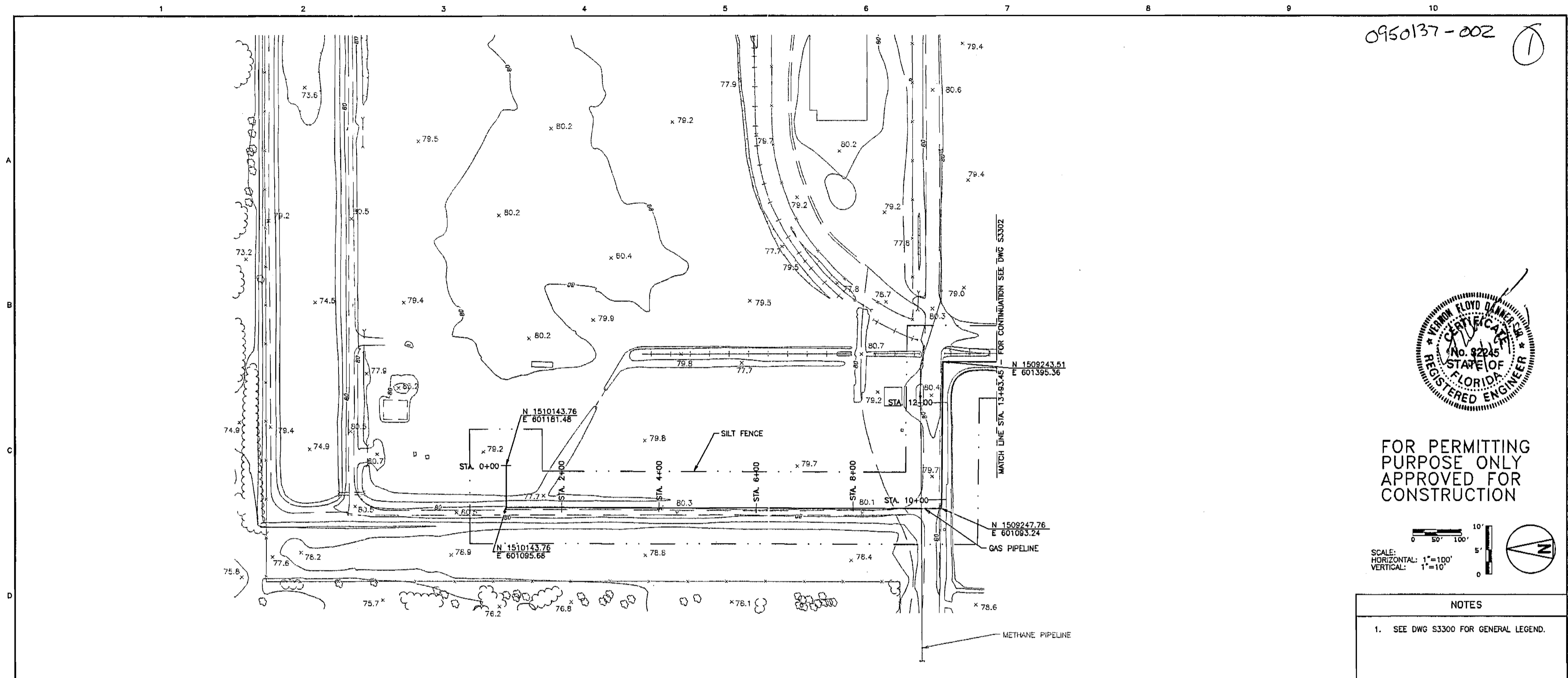


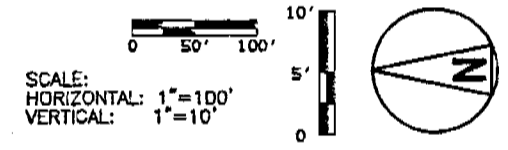
Figure 7. Mitigation Site 3.8: Piezometer Location

Attachment E
Natural Gas Pipeline Drawings

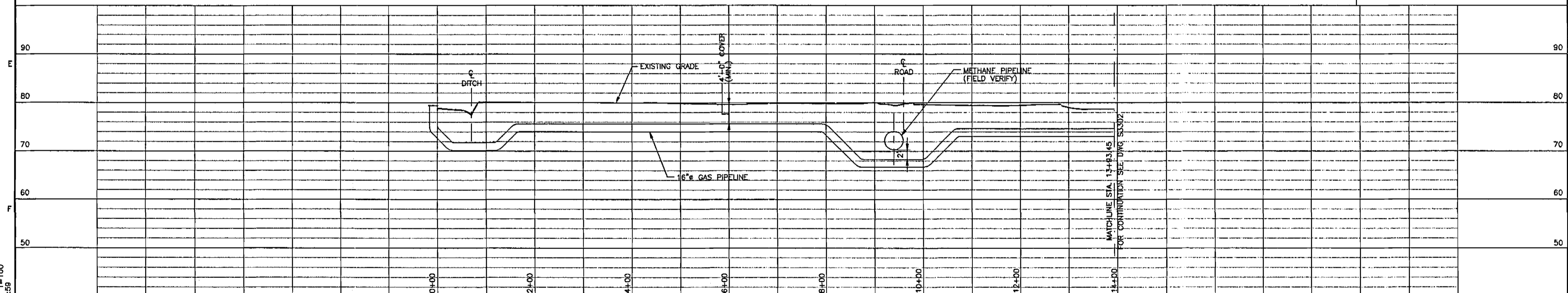
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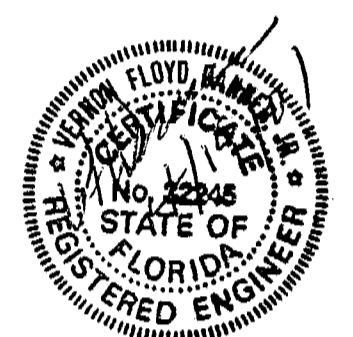
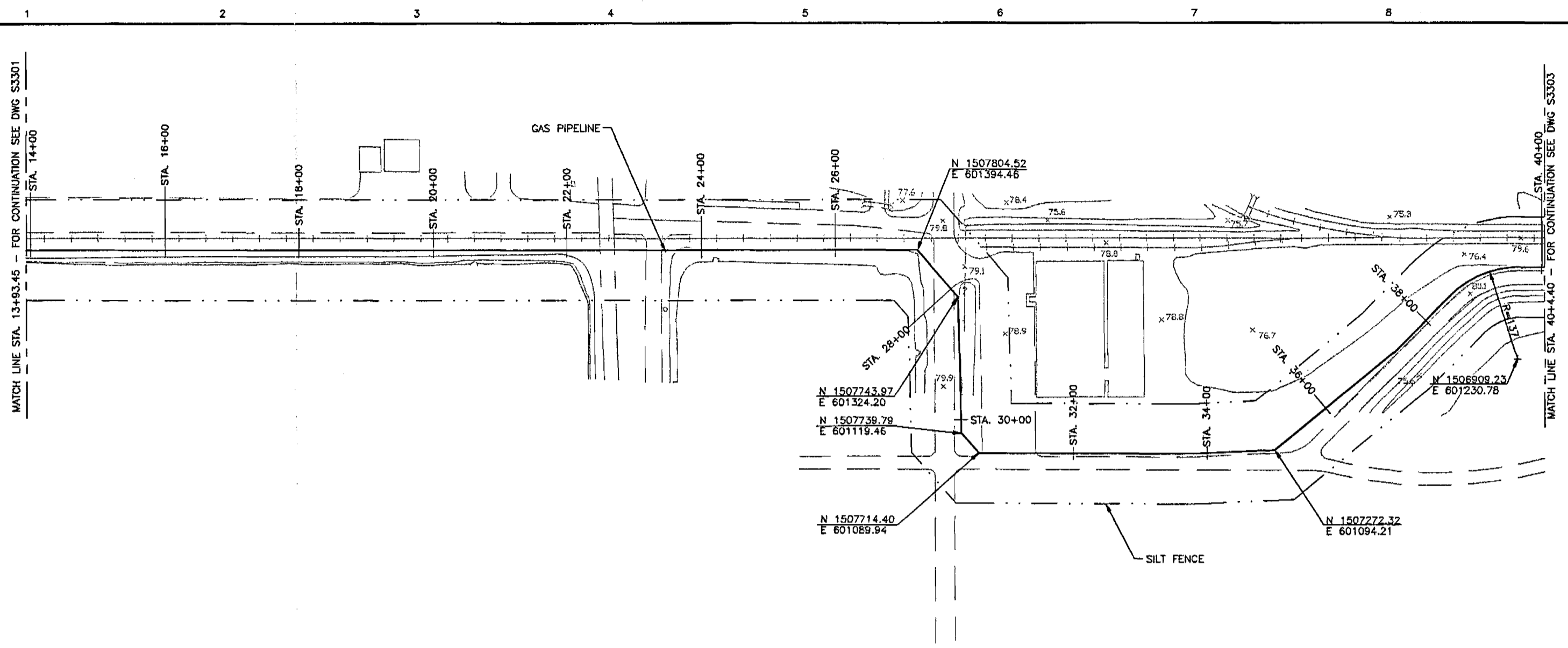


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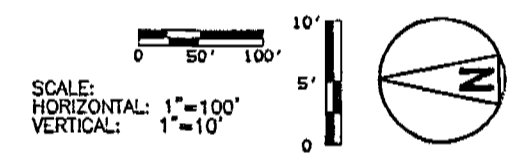
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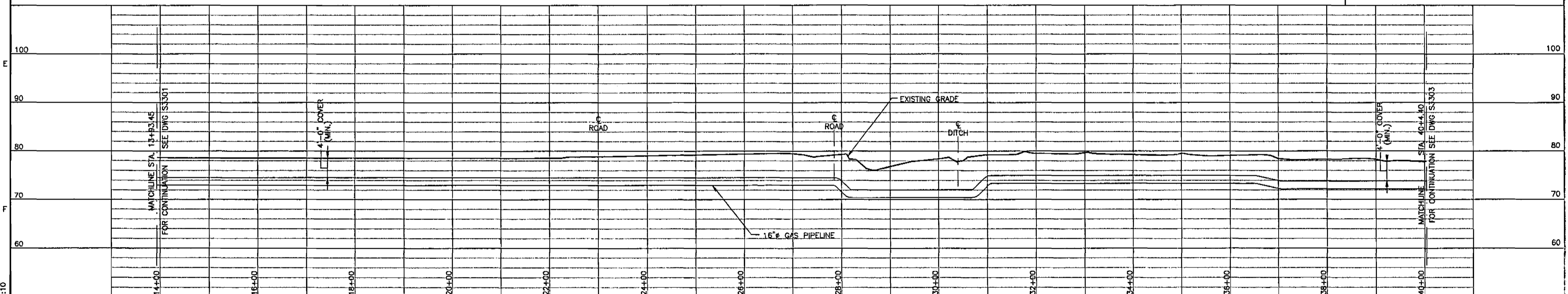
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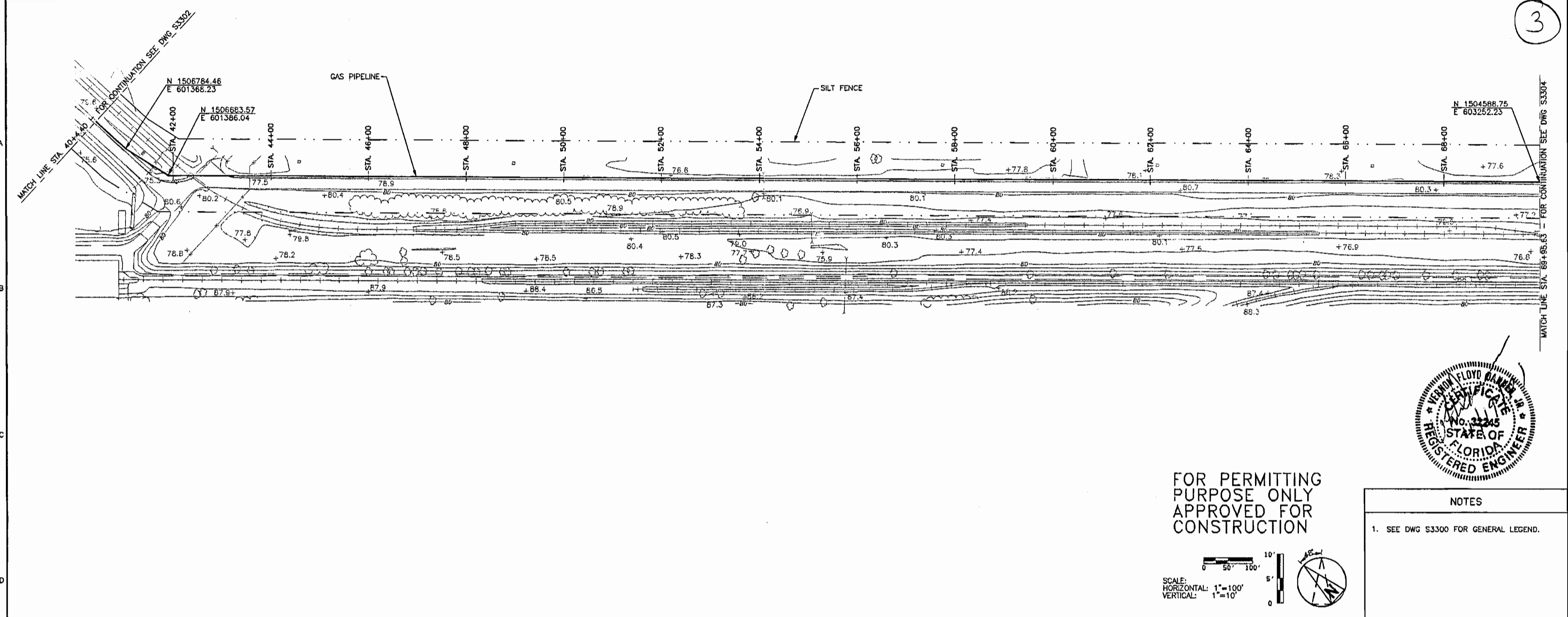


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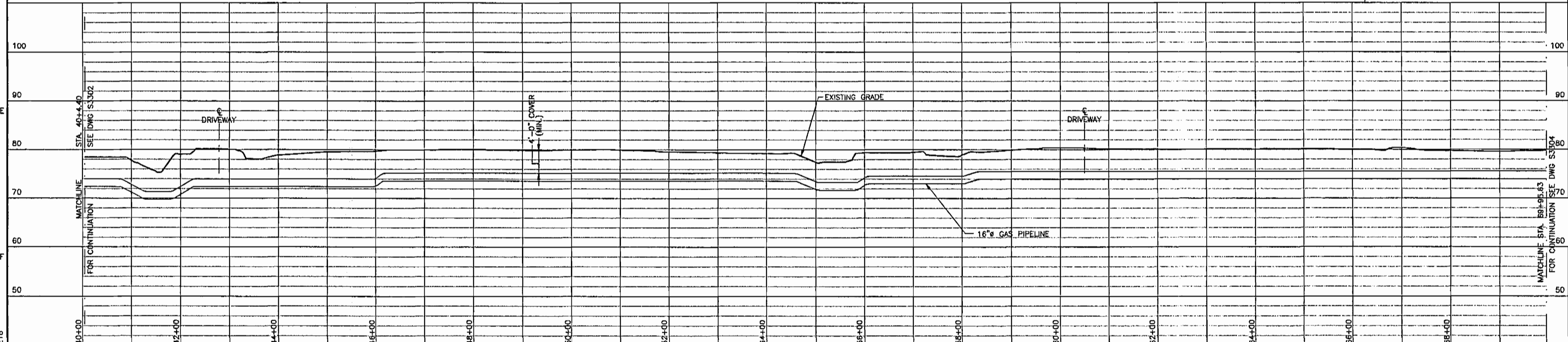
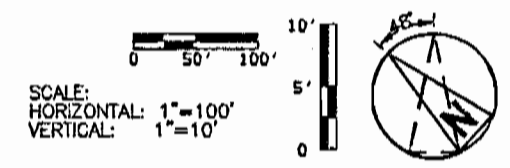
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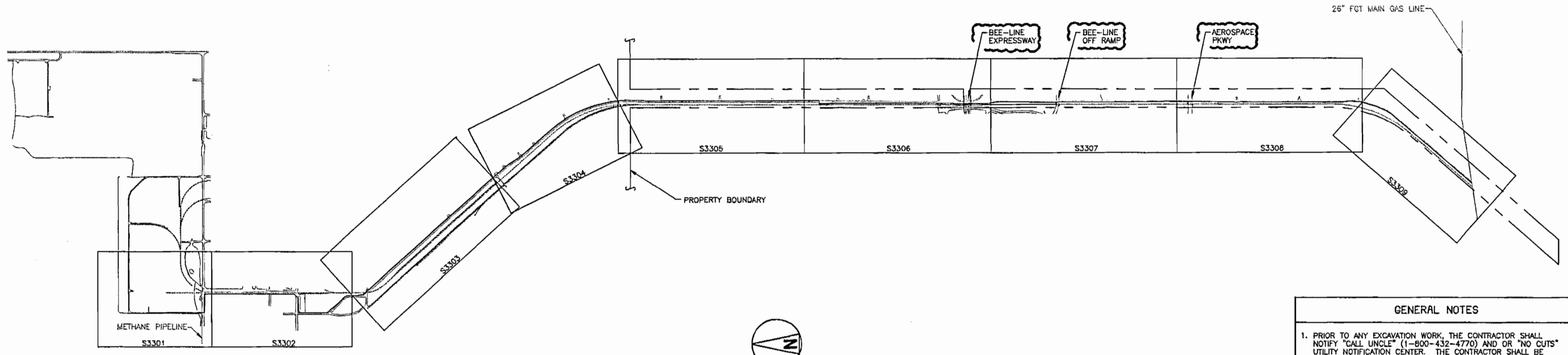
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KEY PLAN

GAS PIPELINE GENERAL CONSTRUCTION



DRAWING LIST

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98362-DS-S3302	SITE-GAS PIPELINE PLAN AND PROFILE SHT-2
98362-DS-S3303	SITE-GAS PIPELINE PLAN AND PROFILE SHT-3
98362-DS-S3304	SITE-GAS PIPELINE PLAN AND PROFILE SHT-4
98362-DS-S3305	SITE-GAS PIPELINE PLAN AND PROFILE SHT-5
98362-DS-S3306	SITE-GAS PIPELINE PLAN AND PROFILE SHT-6
98362-DS-S3307	SITE-GAS PIPELINE PLAN AND PROFILE SHT-7
98362-DS-S3308	SITE-GAS PIPELINE PLAN AND PROFILE SHT-8
98362-DS-S3309	SITE-GAS PIPELINE PLAN AND PROFILE SHT-9
98362-DS-S3310	SITE-GAS PIPELINE MISCELLANEOUS PLANS, SECTIONS & DETAILS
98362-DS-S3311	SITE-GAS PIPELINE TYPICAL SECTIONS & DETAILS

VICINITY MAP NO SCALE

GENERAL NOTES

- PRIOR TO ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY "CALL UNCLE" (1-800-432-4770) AND OR "NO CUTS" UTILITY NOTIFICATION CENTER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NOTIFICATION PROCEDURES AT LEAST 48 HOURS PRIOR TO ANY WORK.
- EXISTING OVERHEAD AND UNDERGROUND UTILITIES ALONG THE PIPELINE ROUTE ARE AS INDICATED ON THE DRAWINGS TO THE BEST KNOWLEDGE OF THE ENGINEER. THERE MAY BE ADDITIONAL UTILITY LINES NOT KNOWN AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE. THE CONTRACTOR SHALL TAKE THE EXTRA PRECAUTIONS NECESSARY TO AVOID EXISTING OVERHEAD POWER LINES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ALL SAFETY MEASURES CONCERNING THIS MATTER.
- ALL EXISTING DRAINAGE PIPES, CULVERTS, AND STRUCTURES DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR WITH NEW MATERIALS OF THE SAME TYPE.
- CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- CONTRACTOR SHALL RESTORE FINISHED GRADE TO EXISTING CONDITION.
- IN AREAS WHERE THE GAS PIPELINE CROSSES EXISTING UTILITIES, THE GAS PIPELINE SHALL BE BELOW THESE LINES, AS INDICATED ON THE DRAWINGS.
- PLAN DRAWINGS INDICATE TO THE BEST KNOWLEDGE POSSIBLE EXISTING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LINES INDICATED AND IF ADDITIONAL LINES EXIST. IN NO CASE SHALL THE CONTRACTOR BE ALLOWED ADDITIONAL COMPENSATION FOR UNFORSEEN PROBLEMS ARISING FROM THOSE UTILITIES INDICATED OR THOSE FOUND DURING CONSTRUCTION.
- THE COUNTY ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY JACK & BORE OPERATION OR TYING IN TO ANY EXISTING UTILITIES WITHIN THE COUNTY RIGHT-OF-WAY.

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ABBREVIATIONS

APPROX	APPROXIMATE	N	NORTH
CL	CENTERLINE	NA	NOT APPLICABLE
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE
CONC	CONCRETE	PI	POINT OF INTERSECTION
Ø	DIAMETER	PP	POWER POLE
DWG	DRAWING	PT	POINT OF TANGENCY
E	EAST	R-O-W	RIGHT-OF-WAY
EL	ELEVATION	STA	STATION
EOP	EDGE OF PAVEMENT	WP	WORK POINT
FC	FIELD CHECK		
FGT	FLORIDA GAS TRANSMISSION		
F.L.	FIELD LOCATE		
GTE	GENERAL TELEPHONE & ELECTRIC		
I.D.	IDENTIFICATION		
INV	INVERT		
KUA	KISSIMMEE UTILITY AUTHORITY		
MB	MAILBOX		
MIN	MINIMUM		

GENERAL LEGEND

---	LIMITS OF SILT FENCE
---	RAILROAD TRACKS
---	ROAD
---	DRIVEWAY/TRAIL
---	RAILROAD CROSSING SIGN
---	PROPERTY BOUNDARY
---	GAS PIPELINE
---	FGT MAIN GAS LINE
---	METHANE PIPELINE
---	WETLAND AREA
---	SECURITY FENCE
---	JACK AND BORE

UTILITY OWNERS UTILITY NOTIFICATION LIST

"CALL UNCLE"
UTILITY NOTIFICATION LIAISON FOR EXCAVATORS
7797 N. UNIVERSITY DRIVE
TAMARIC, FLORIDA 33321
1-800-432-4770

"CALL NOCUTS"
1109 LAKE HARRIS DRIVE
TABARES, FLORIDA 32778
1-800-542-0088

CALL NOCUTS MEMBERS
UNITED TELEPHONE OF FLORIDA
555 LAKE BORDER DRIVE
APOKA, FLORIDA 32703
(407) 888-6000



NOTE:
EXISTING UTILITIES SHOWN ON THE ENCLOSED DRAWINGS REPRESENT APPROXIMATE LOCATIONS. CONTACT UTILITY OWNERS 48 HOURS BEFORE CONSTRUCTION IN THESE AREAS FOR EXACT LOCATIONS AND BURIED DEPTHS OF EXISTING UTILITIES.

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BLACK & VEATCH ORLANDO UTILITIES COMMISSION
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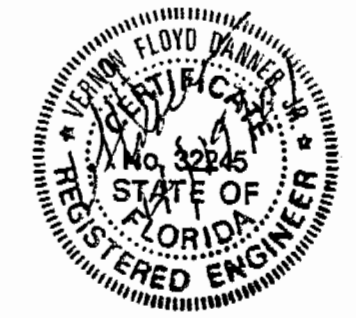
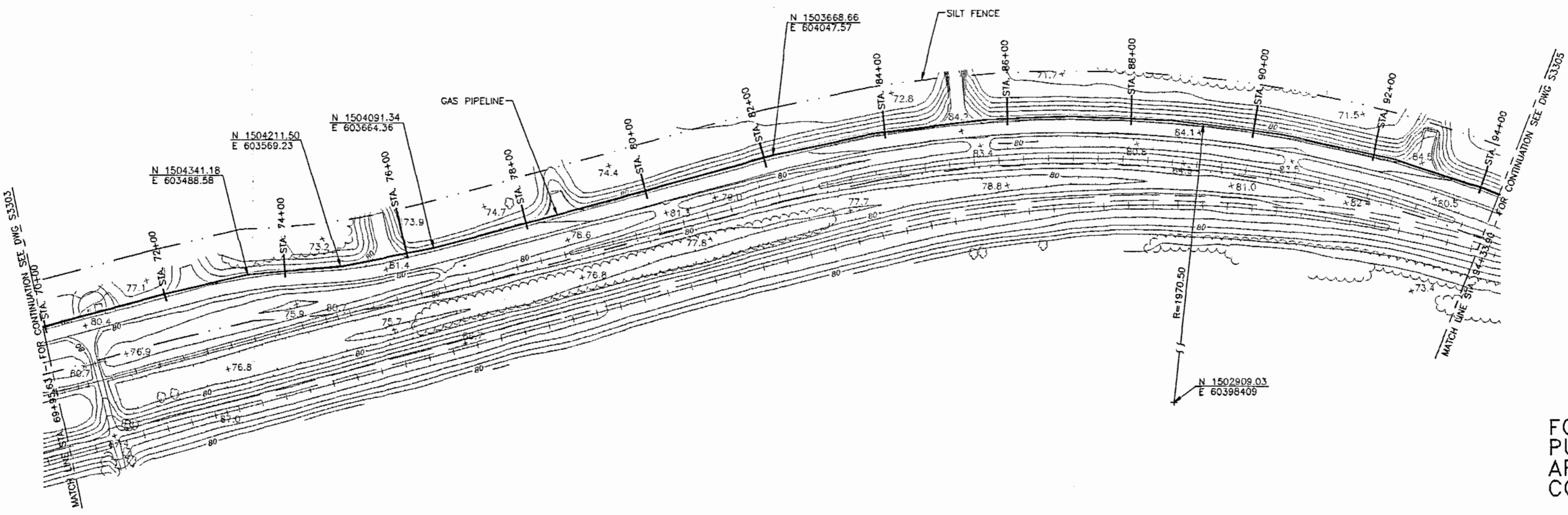
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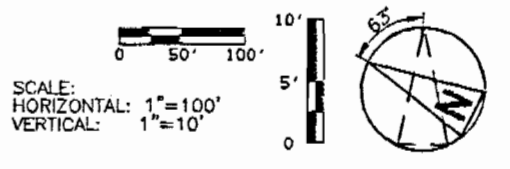
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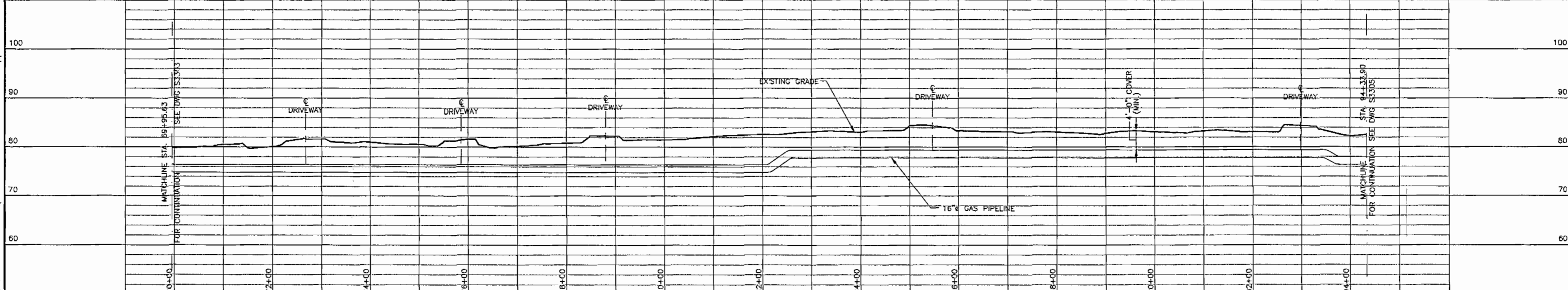
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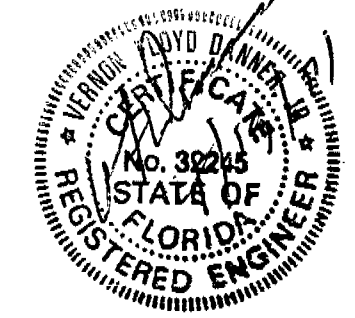
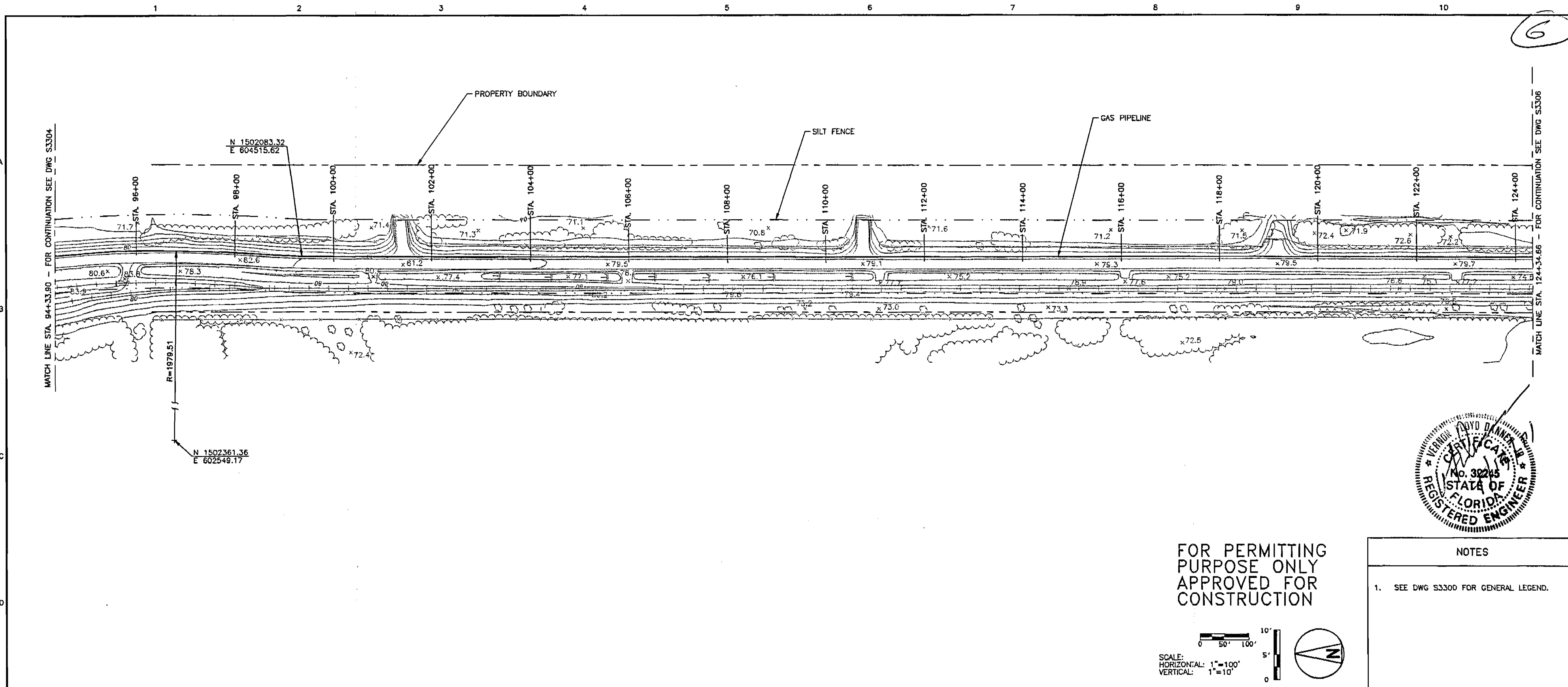
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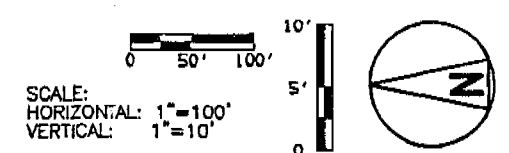
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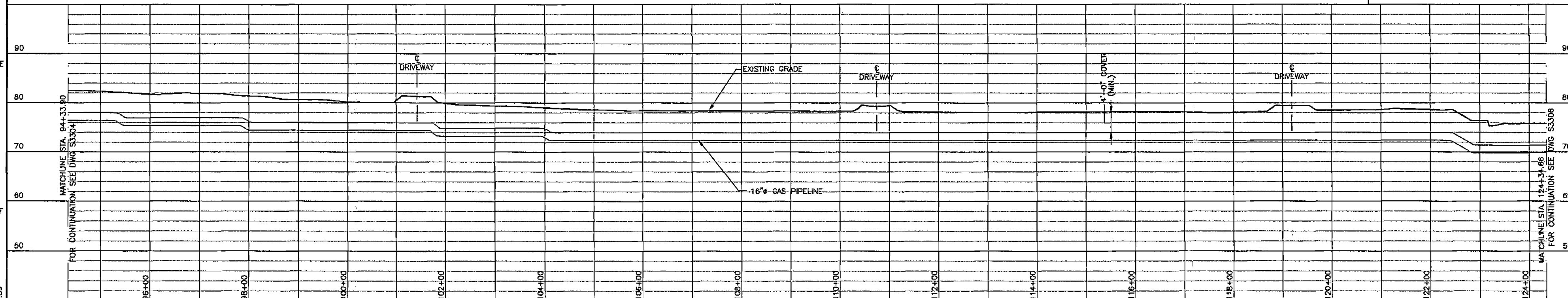
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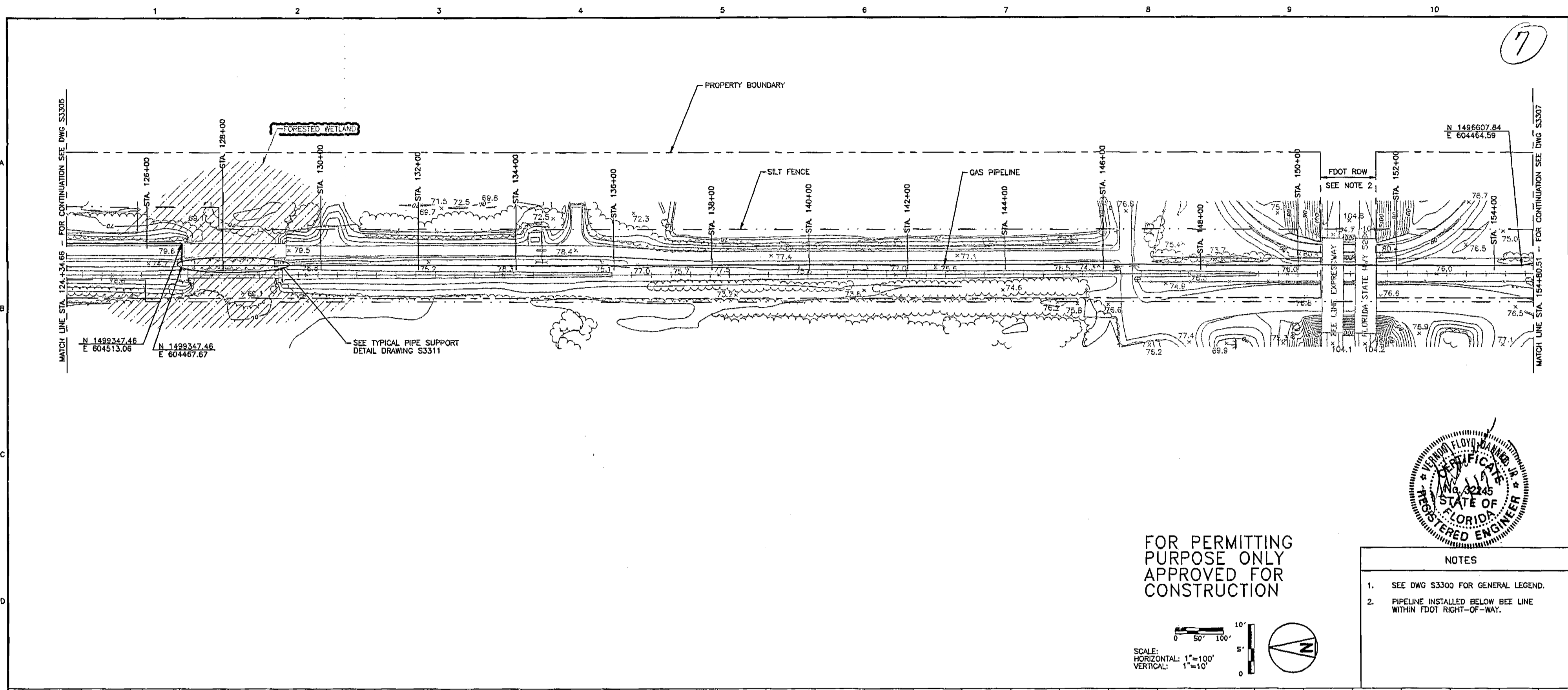
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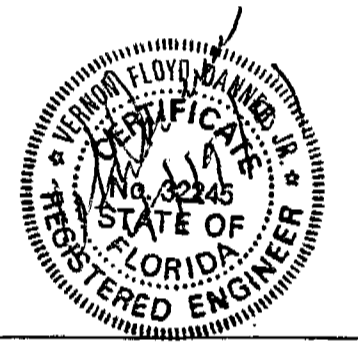
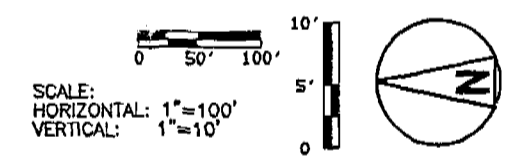
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STANTON ENERGY CENTER - UNIT A
SITE - GAS PIPELINE
PLAN AND PROFILE - SHT 5

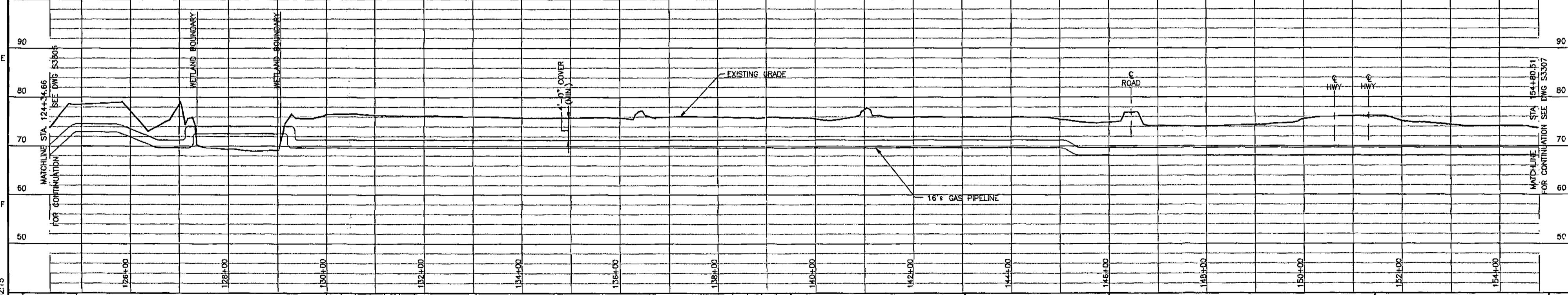
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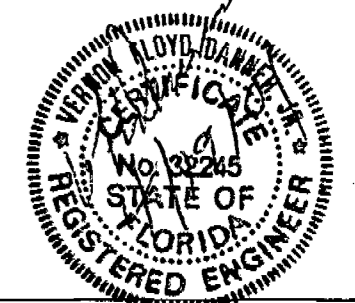
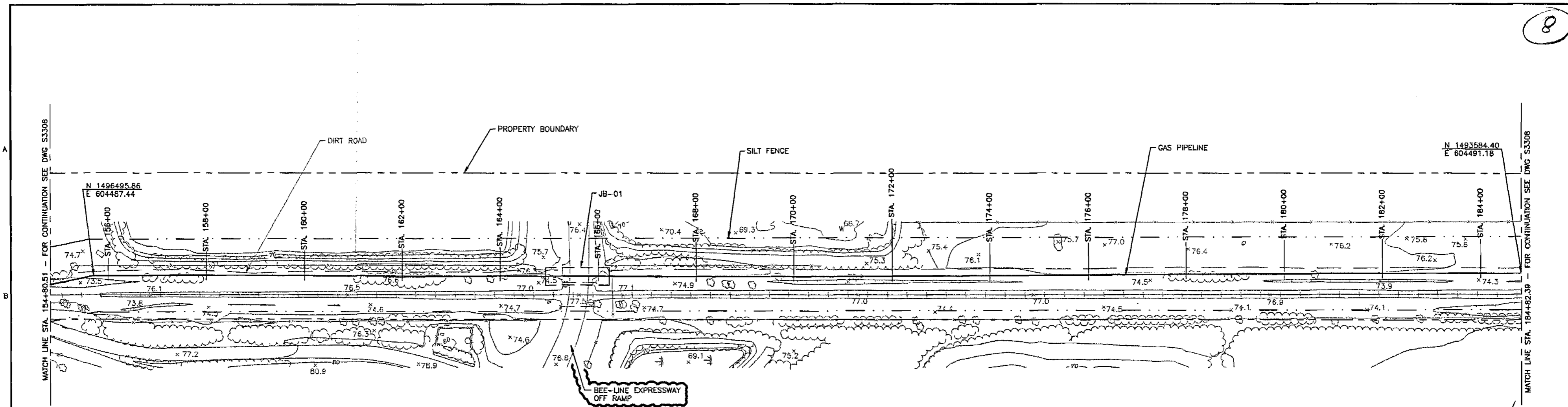
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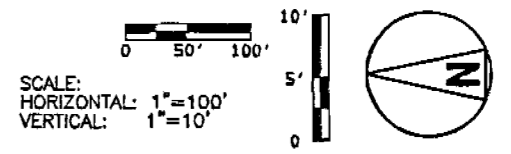
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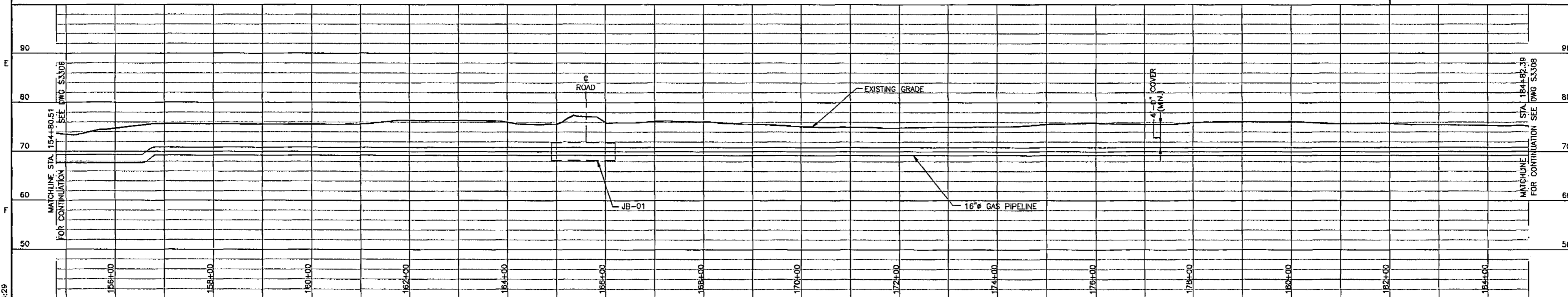
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1.	SEE DWG S3300 FOR GENERAL LEGEND.



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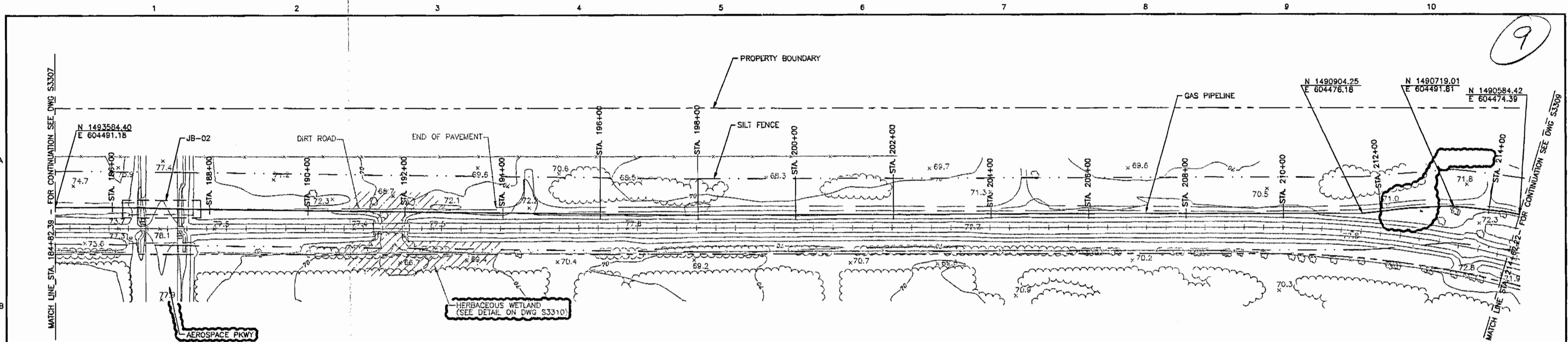
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1	04-16-2001	SUFFICIENCY RESPONSE	MRR	MJT	MJS	SRLU
0	01-17-2001	ISSUE FOR SCA	SLS	MJT	MJS	SRLU

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.
SIGNED: V. Floyd Danner
DATE: 01-17-01 REG. NO.: 32245

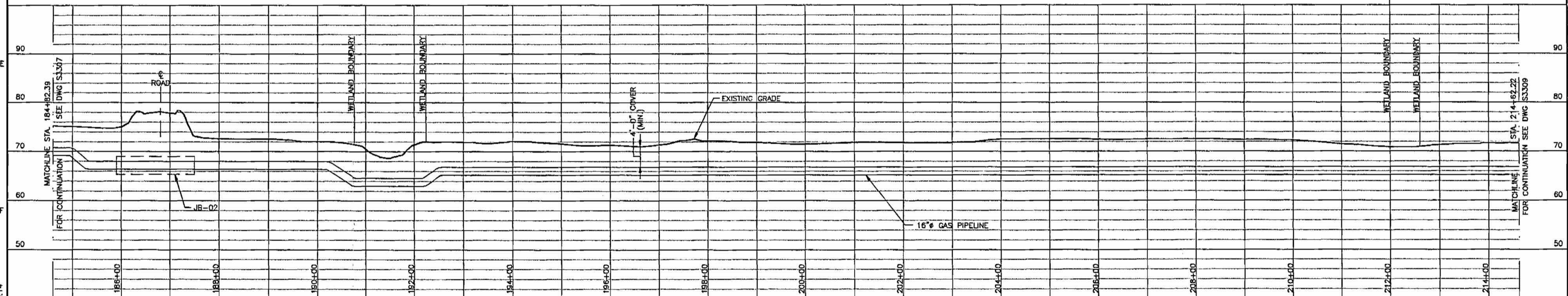
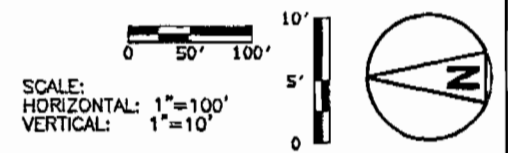
BLACK & VEATCH
ENGINEER: MJT
CHECKED: MJS
DATE: 01-16-01

ORLANDO UTILITIES COMMISSION
STANTON ENERGY CENTER - UNIT A
SITE - GAS PIPELINE
PLAN AND PROFILE - SHT 7

PROJECT: 098362-DS-S3307
DRAWING NUMBER: 098362-DS-S3307
REV: 1

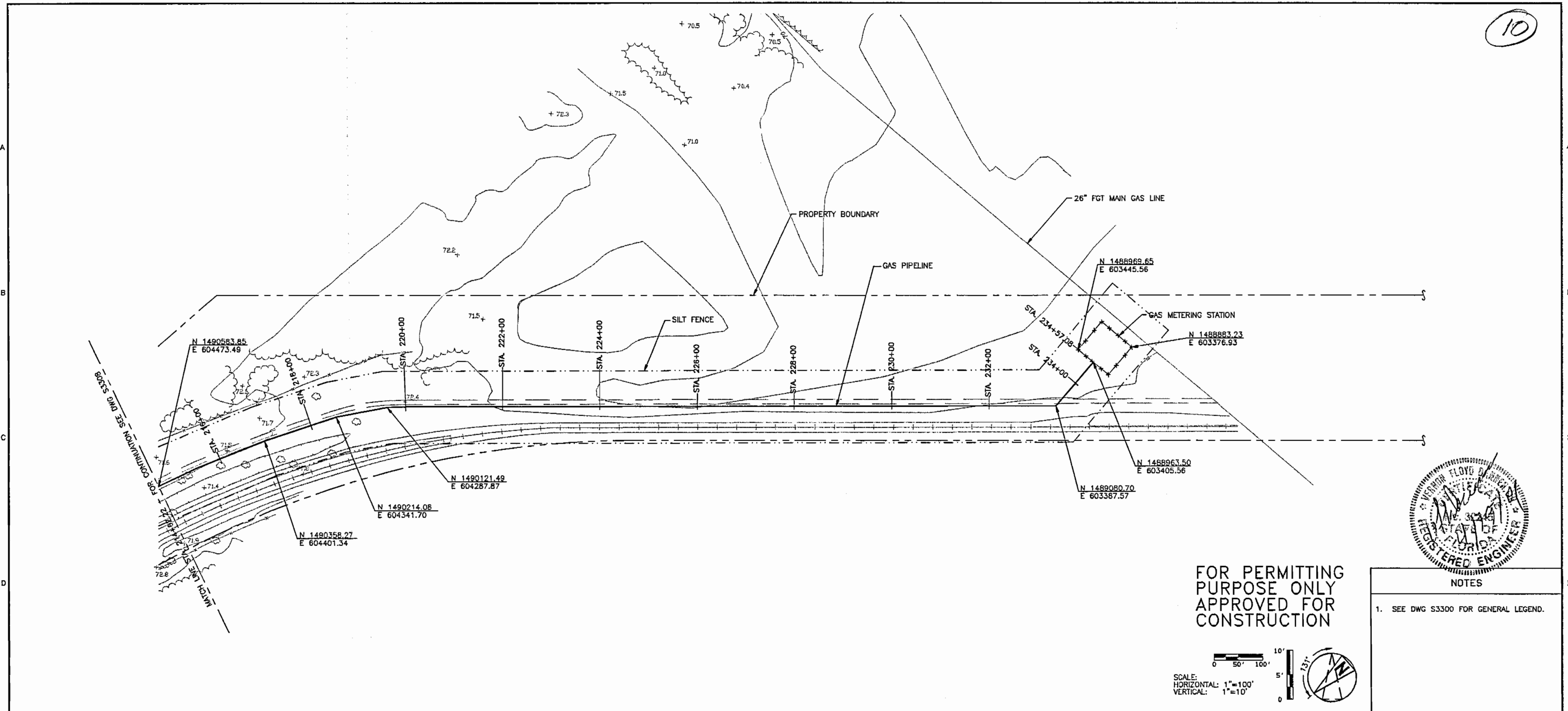


NOTES
 1. SEE DWG S3300 FOR GENERAL LEGEND.

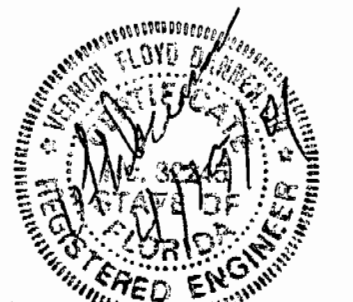
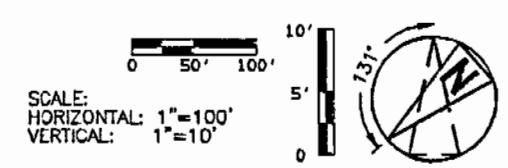


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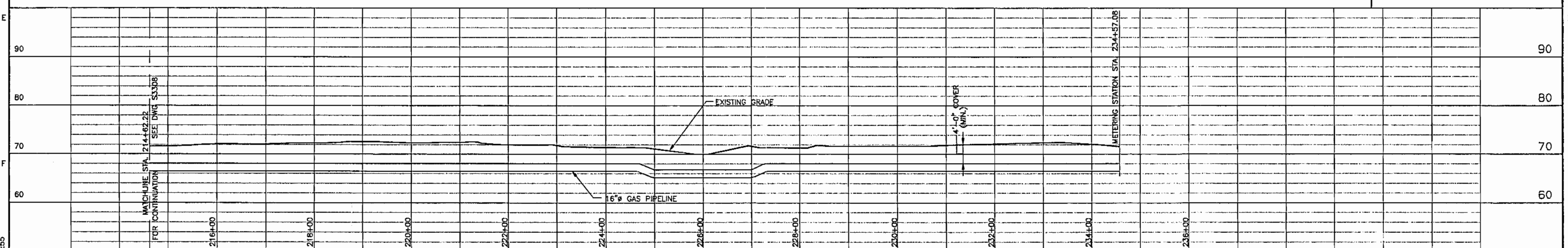
I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA. SIGNED: Y. Floyd Danner DATE: 01-17-01 REG. NO. 32245		BLACK & VEATCH		ORLANDO UTILITIES COMMISSION STANTON ENERGY CENTER - UNIT A		PROJECT: 098362-DS-S3308 DRAWING NUMBER: 1	
ENGINEER: MJT CHECKED: MJS DATE: 01-16-01		DRAWN: SLS DATE: 01-16-01		SITE - GAS PIPELINE PLAN AND PROFILE - SHT 8		CODE: AREA:	
1 04-18-2001 SUFFICIENCY RESPONSE 0 01-17-2001 ISSUE FOR SCA		MRR/MJT/MJS/M/S/R/U SLS/MJT/MJS/M/S/R/U DRN/DES/CHK/PCE/APP		REVISIONS AND RECORD OF ISSUE		NO DATE	



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NOTES	
1.	SEE DWG S3300 FOR GENERAL LEGEND.

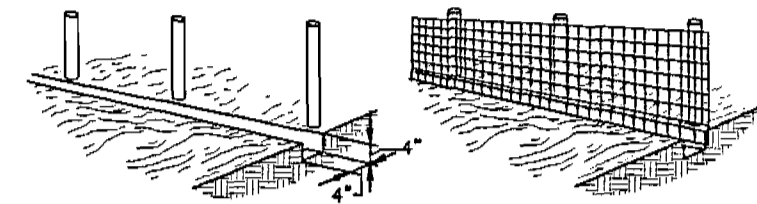


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ACAD 15.05
D1
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08:37:55

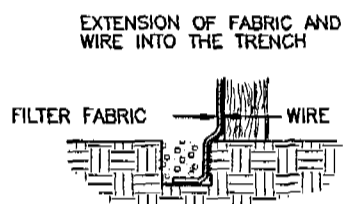
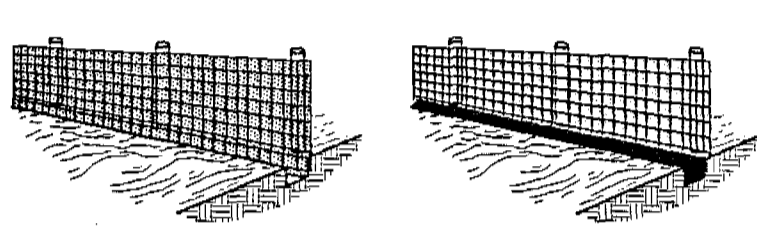
1 04-16-2001 SUFFICIENCY RESPONSE 0 01-17-2001 ISSUE FOR SCA		MRFM/TJM/SMS/RIU SLSM/TJM/SMS/RIU DRN/DES/CHK/PDE/APP		I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA. SIGNED <u>V. Floyd Danner</u> DATE <u>01-17-01</u> REG. NO. <u>32245</u>		BLACK & VEATCH ENGINEER MJT DRAWN SLS CHECKED MJS DATE 01-16-01		ORLANDO UTILITIES COMMISSION STANTON ENERGY CENTER - UNIT A SITE - GAS PIPELINE PLAN AND PROFILE - SHT 9		PROJECT DRAWING NUMBER 098362-DS-S3309		REV 1
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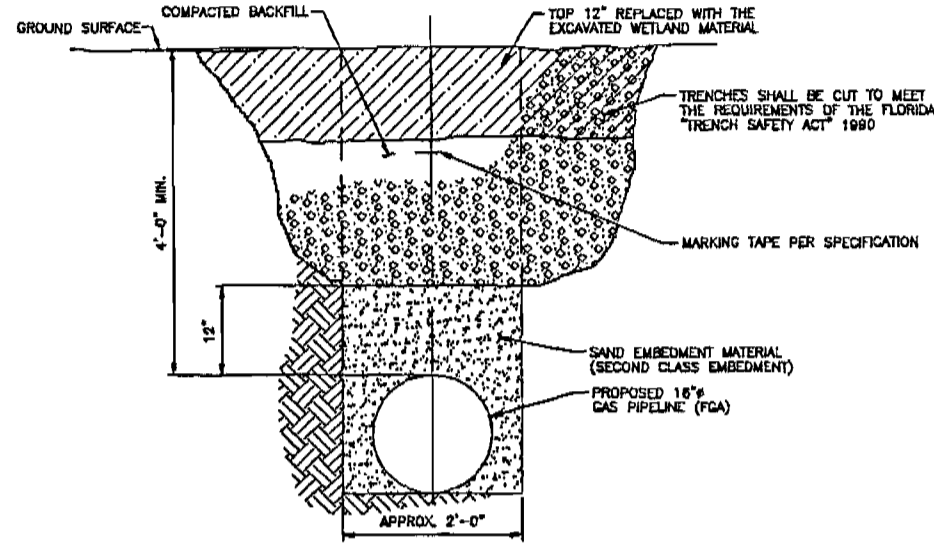
1. SET POSTS AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. STAPLE WIRE FENCING TO THE POSTS.



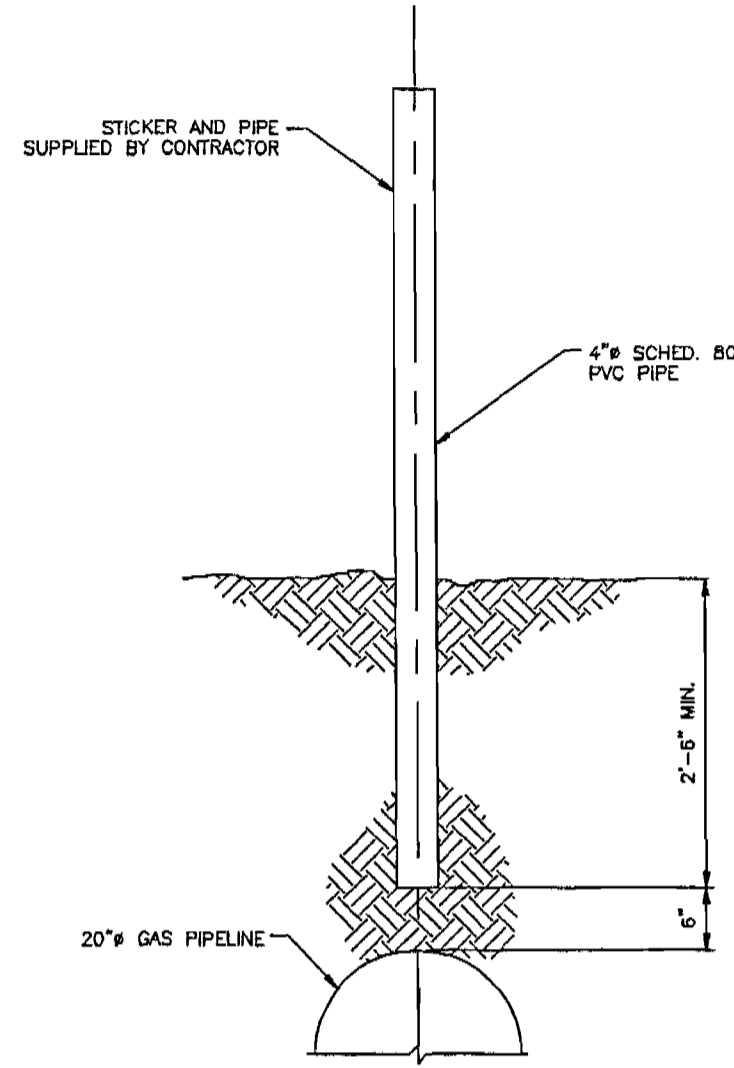
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



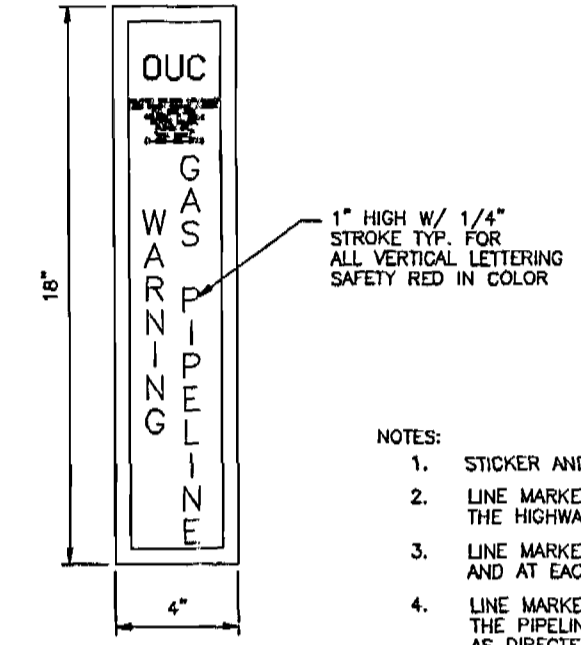
TYPICAL STAKED SILT BARRIERS
NO SCALE



TYPICAL GAS LINE TRENCH EXCAVATION
NO SCALE
SEE THIS DWG



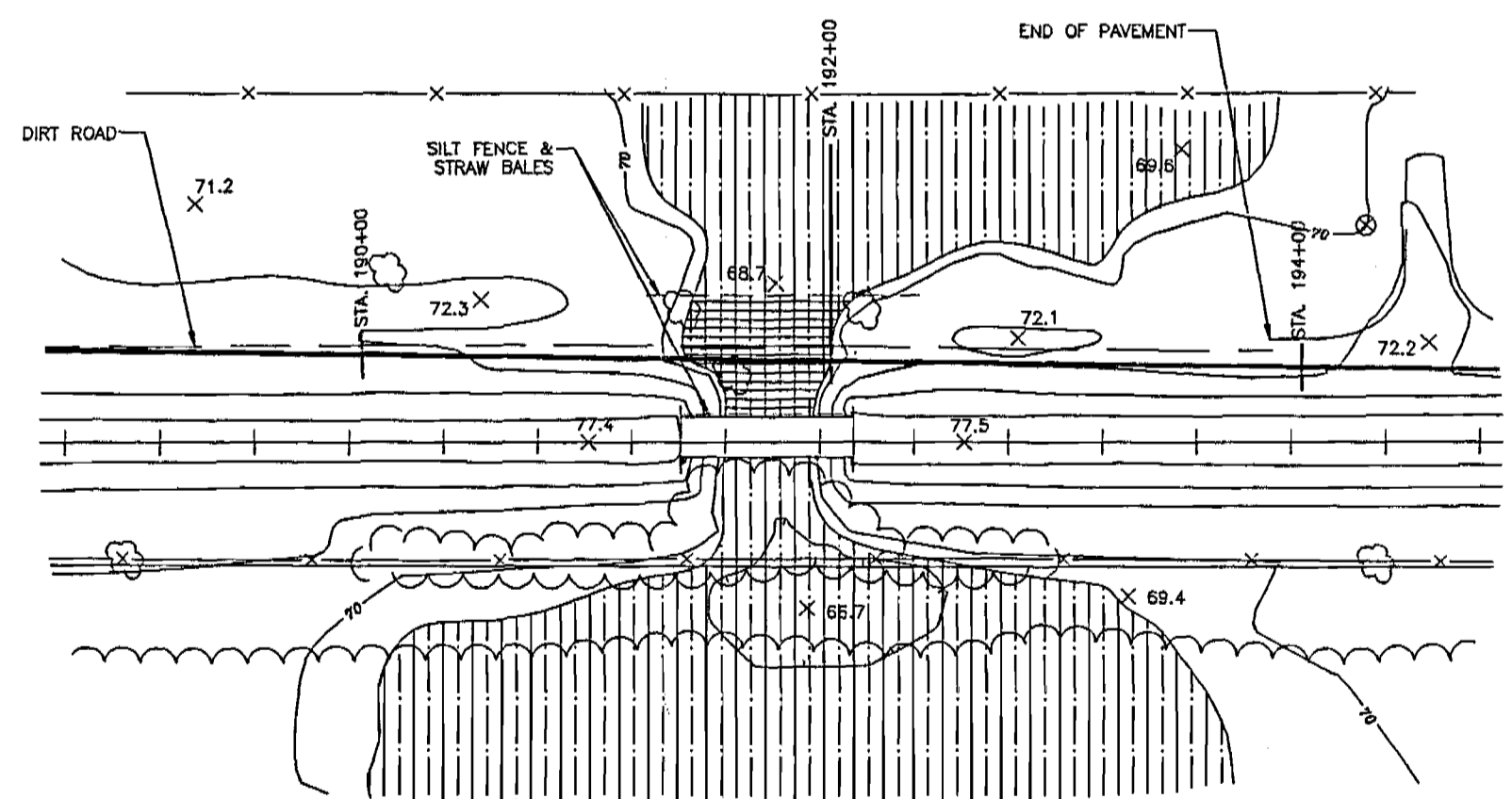
LINE MARKER POST



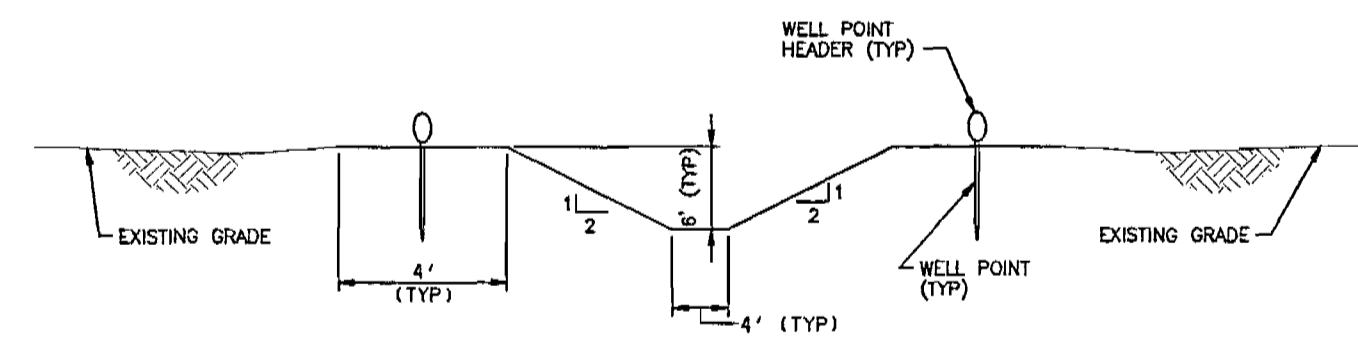
MARKER POST STICKER

- NOTES:
1. STICKER AND PVC PIPE TO BE SUPPLIED BY THE CONTRACTOR.
 2. LINE MARKERS MUST BE PLACED SO LETTERING IS FACING THE HIGHWAY.
 3. LINE MARKERS SHALL BE PLACED DIRECTLY OVER THE PIPELINE AND AT EACH CROSSING OF A PUBLIC ROAD.
 4. LINE MARKERS SHALL BE PLACED AT 300' INTERVALS ALONG THE PIPELINE ROUTE, POINTS OF INTERSECTION (P1) AND AS DIRECTED BY THE PROJECT FIELD MANAGER.

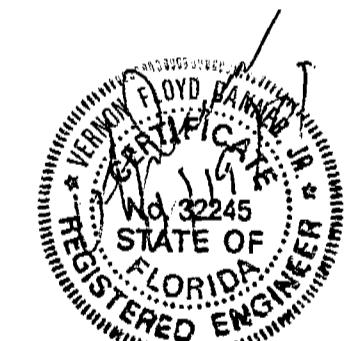
TYPICAL LINE MARKER DETAILS
NO SCALE



WETLANDS DETAIL
SCALE: 1"=50'



TYPICAL DEWATERING DETAIL
NO SCALE
SEE NOTE 1



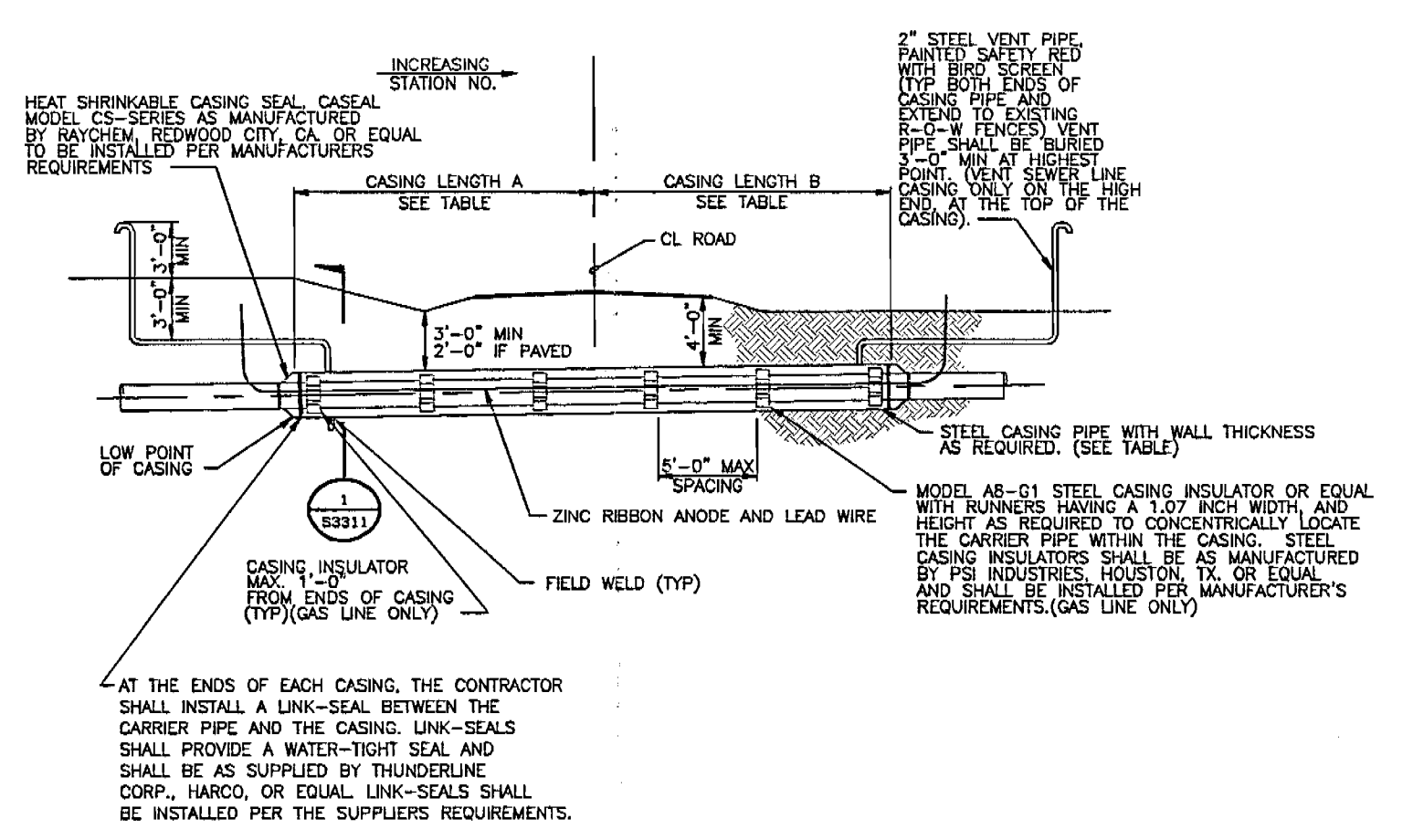
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APPROVED FOR CONSTRUCTION

NOTES

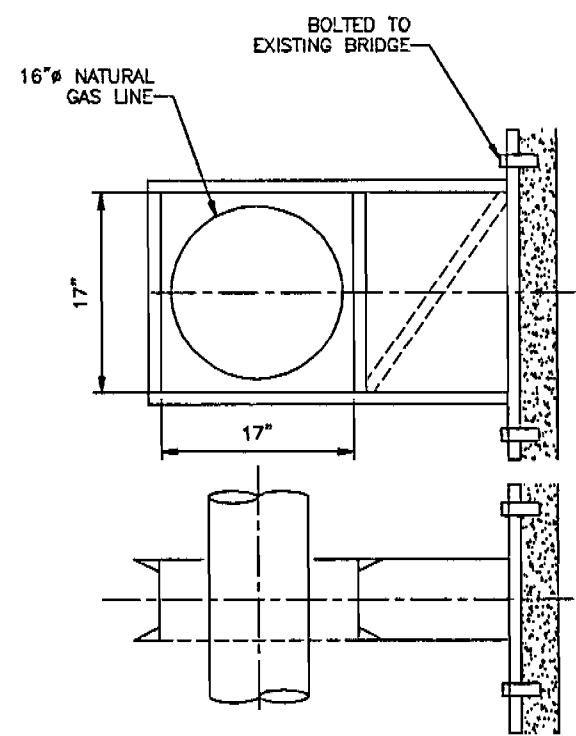
1. WELL POINTS ARE TIED INTO PUMP SYSTEMS THAT DISCHARGE INTO THE EXISTING DRAINAGE SYSTEM AFTER PASSING THROUGH HAY BALES AND SILT FENCE.

RUN02925 D1 ACAD 15.05
1/15/03
04/17/01 08:40:03

I HEREBY CERTIFY THAT THIS DOCUMENT HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.		BLACK & VEATCH		ORLANDO UTILITIES COMMISSION STANTON ENERGY CENTER - UNIT A		PROJECT 098362-DS-S3310	DRAWING NUMBER 1	REV 1
SIGNED	V. Floyd Danner	ENGINEER	MJT	DRAWN	SLS	CODE		
DATE	01-17-01	CHECKED	MJS	DATE	01-16-01	AREA		
REG NO. 32245								
REVISIONS AND RECORD OF ISSUE								
NO	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	04-18-2001	SUFFICIENCY RESPONSE	MFR/MJT	MJS/MJS				
0	01-17-2001	ISSUE FOR SCA	SLS/MJT	MJS/MJS				

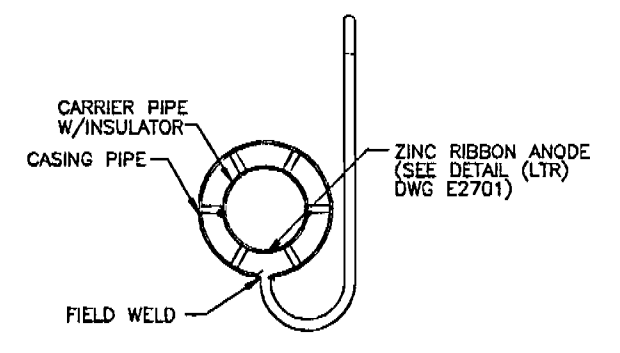


TYPICAL JACK AND BORE STEEL CASING PIPE
NO SCALE



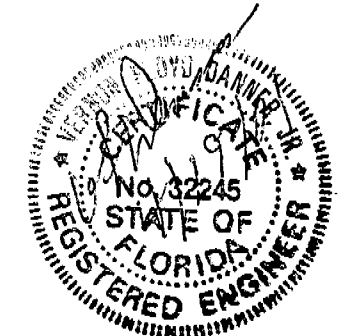
ALL SUPPORT MEMBER CONNECTIONS AND SPACING TO BE DESIGNED DURING DETAIL DESIGN PHASE OF THE PROJECT.

TYPICAL PIPE SUPPORT
NO SCALE



SECTION 1
NO SCALE
SEE THIS DWG

JACK AND BORE TABLE			
JACK AND BORE NUMBER	CASING PIPE DIA.	DWG. NUMBER	REMARKS
JB-01	30"	S3307	
JB-02	30"	S3308	



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NOTES	

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04/17/01 08:42:37

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ENGINEER: MJT CHECKED: MJS	DRAWN: SL5 DATE: 01-16-01	SITE - GAS PIPELINE TYPICAL SECTIONS & DETAILS			

NO	DATE	REVISIONS AND RECORD OF ISSUE	APPROVED
1	04-18-2001	SUFFICIENCY RESPONSE	MRF/MJT/MJS/MJS/RIU
0	01-17-2001	ISSUE FOR SCA	SLS/MJT/MJS/MJS/RIU
			DRN/DES/CHK/PDE/APP