

**FINAL DATA REPORT Rev 0
GEOTECHNICAL EXPLORATION AND TESTING**

**EXELON TEXAS COL PROJECT
VICTORIA COUNTY, TEXAS
COOLING BASIN**

July 18, 2008

VOLUME 4

Prepared By:

**MACTEC Engineering and Consulting, Inc.
Raleigh, North Carolina**

MACTEC Project No. 6468-07-1777

Prepared For:

**Bechtel Power Corporation
Subcontract No. 25352-102-HC4-CY00-00001**

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Appendix F – RCTS Data**

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FUGRO CONSULTANTS, INC.



6100 Hillcroft (77081)
P.O. Box 740010
Houston, Texas 77274
Tel: 713-369-5400
Fax: 713-369-5518

June 26, 2008

Ms. Siesta Williams
MACTEC
3301 Atlantic Avenue
Raleigh, NC 27604

RE: Two (2) Reports For The EXELON COL Project

Dear Ms. Williams:

Fugro has completed two (2) RCTS tests, which are 2317/2334 and 2319/2334 for the EXELON project. Fugro has incorporated, as needed, Dr. Kenneth Stokoe's comments into the final reports. The final reports and the associated RCTS Test Approvals by Dr. Kenneth Stokoe have been attached.

Please let us know if you have questions. Thanks.

Very truly yours,

Fugro Consultants, Inc.

A handwritten signature in black ink, appearing to read "Meng", with a long, sweeping horizontal stroke extending to the right.

Jiewu Meng, PhD, P.E.
Project Engineer

A handwritten signature in black ink, appearing to read "Bill DeGroff", with a stylized, cursive-like script.

Bill DeGroff, P.E.
Laboratory Department Manager

Enclosures

Cc: Kathryn White, in PDF



RCTS TEST APPROVAL

PROJECT SITE/NAME	EXELON
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Test ID	Sample ID	Depth B.S. (Ft)	Approved By (Initials)	Date
RCTS#P	Composite B 2317/2334	---	<i>[Signature]</i> (+)	17 June '08
RCTS#Q	Composite A 2319/2334	---	<i>[Signature]</i> (+)	17 June '08

Two RCTS tests for the site referenced above were tested, and two reports were prepared, by Fugro Consultants, Inc.

I have reviewed the data and associated results listed above and found them to be reasonable.

Approved By:

[Signature: K. H. Stokoe]

Dr. Kenneth Stokoe

(+) See notes on some figures and consider minor changes.

APPENDIX P

Specimen Composite B - EXELON 2317/2334

Borehole ---

Sample ---

Depth = --- ft (--- m)

Total Unit Weight = 133.0 lb/ft³

Water Content = 14.8 %

Estimated In-Situ K_o = 0.5

Estimated In-Situ Mean Effective
Stress = 19 psi

FUGRO JOB #: 0401-1686

Testing Station: RC5

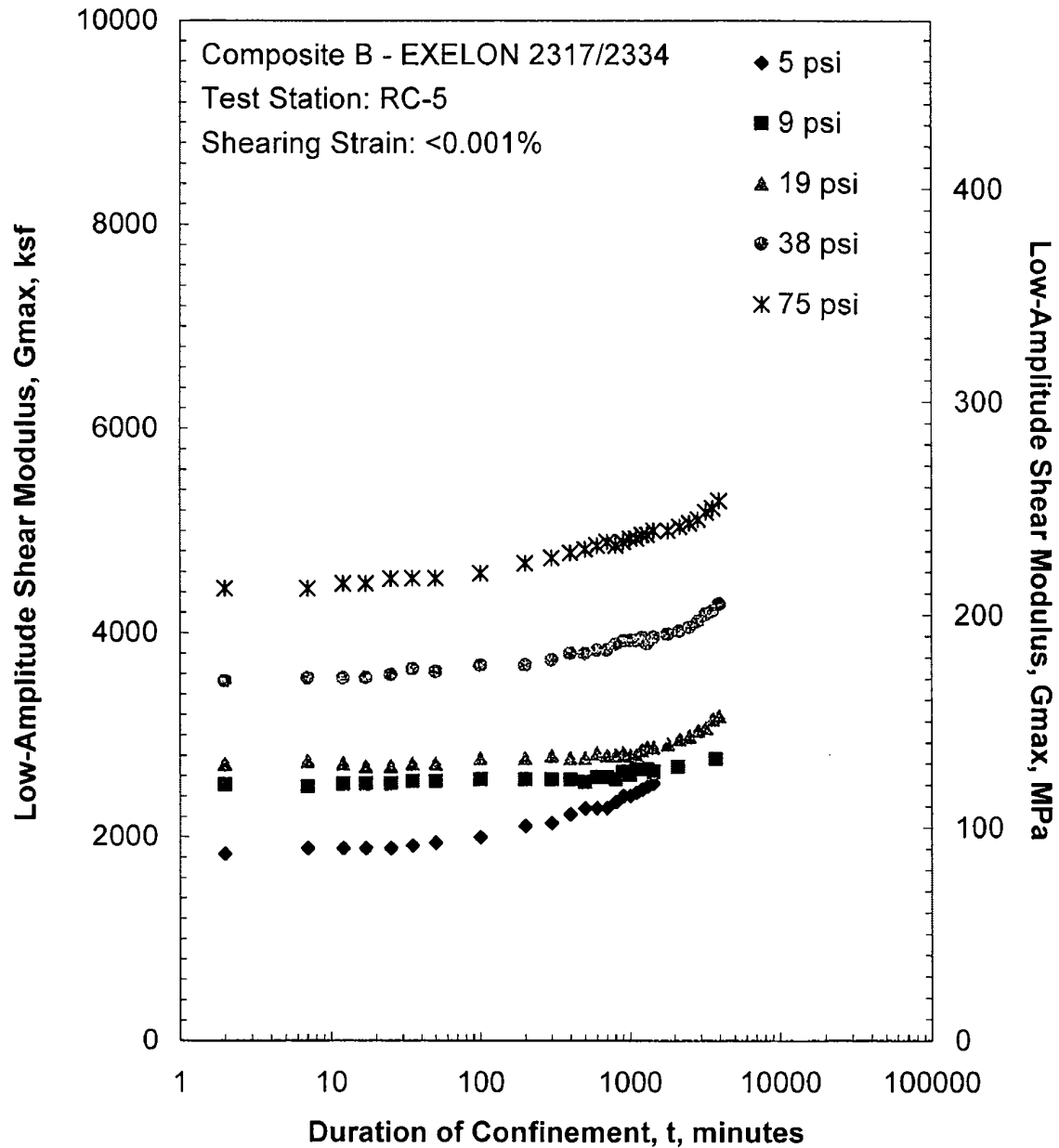


Figure P.1 Variation in Low-Amplitude Shear Modulus with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests

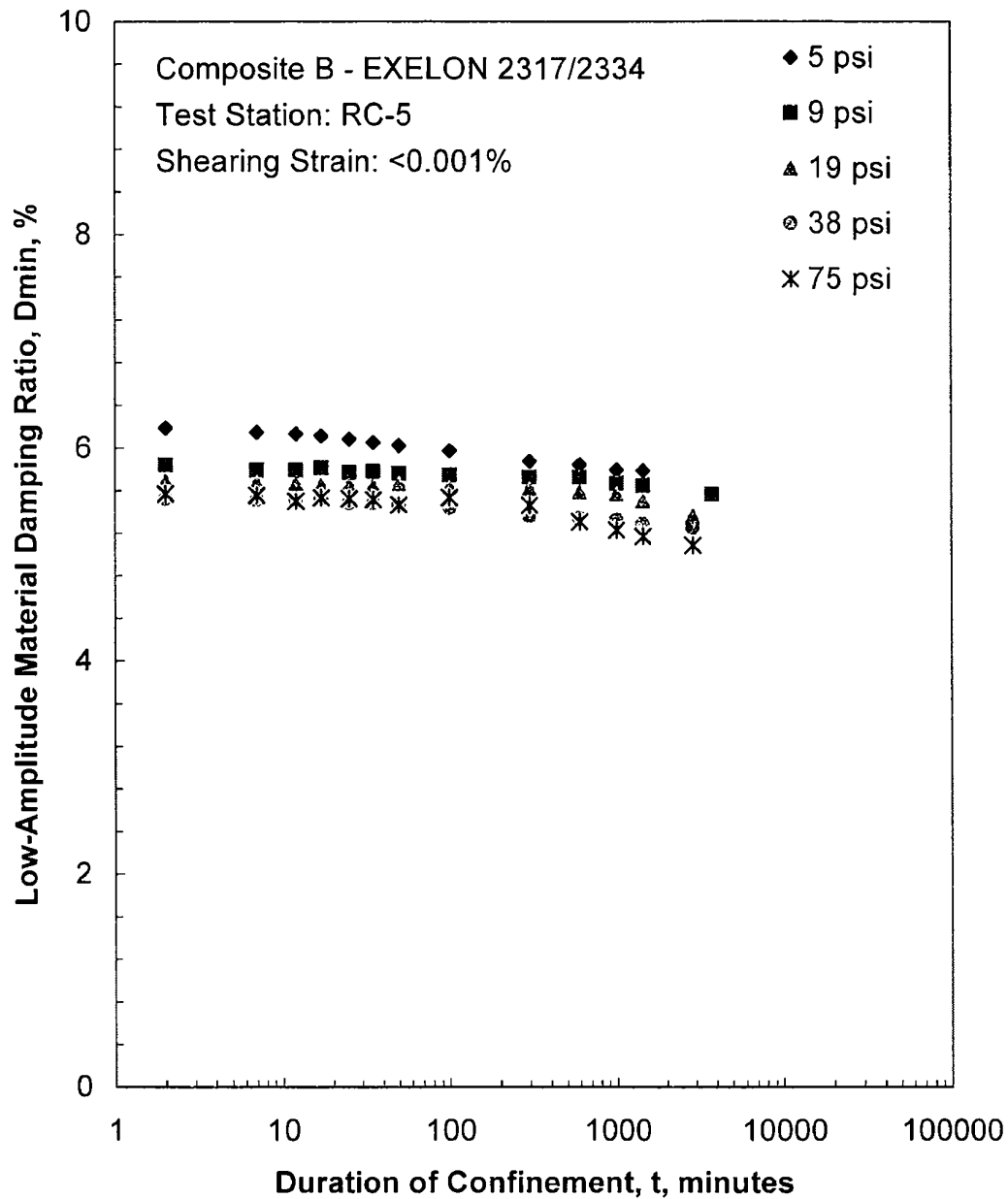


Figure P.2 Variation in Low-Amplitude Material Damping Ratio with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests

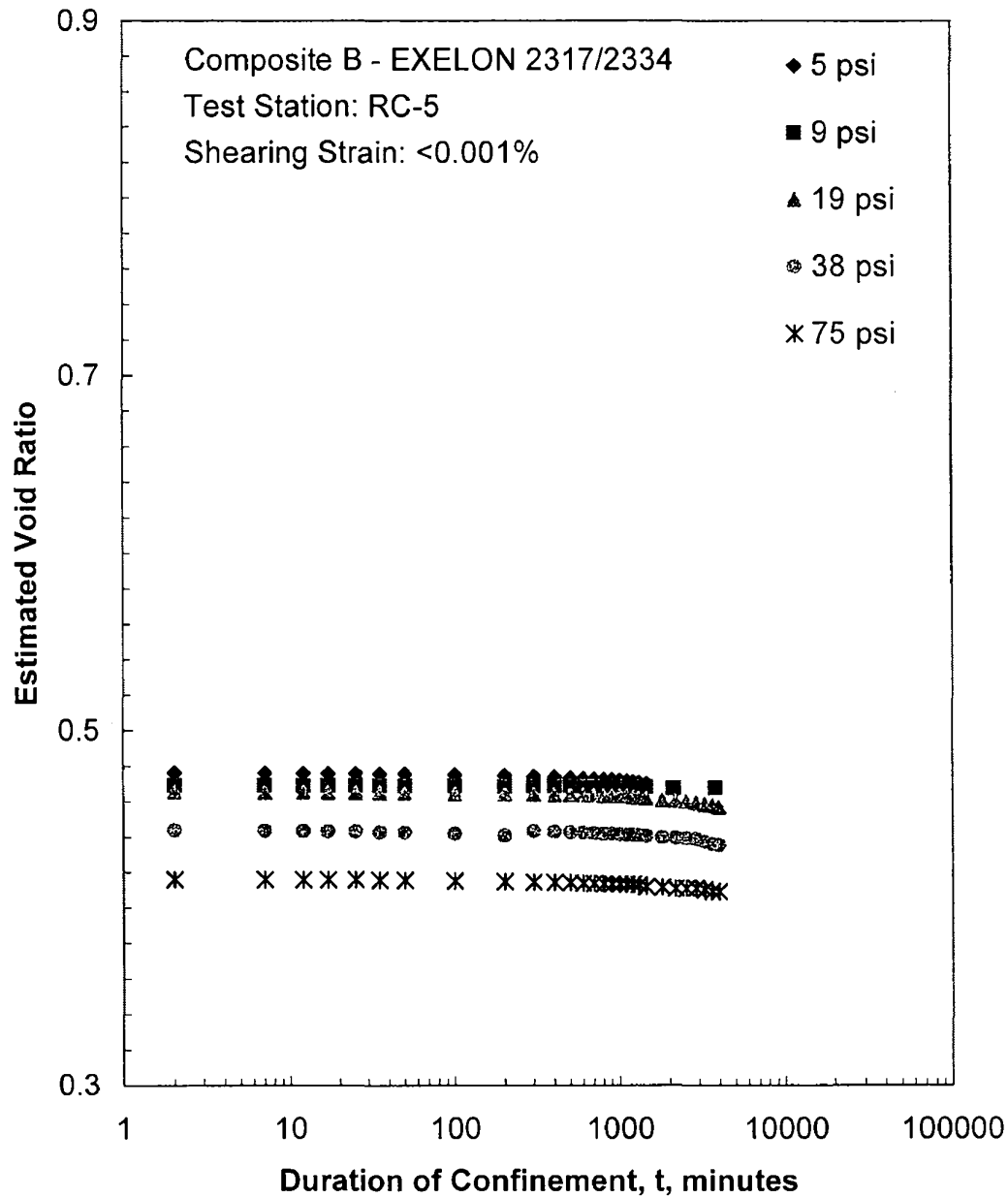


Figure P.3 Variation in Estimated Void Ratio with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests

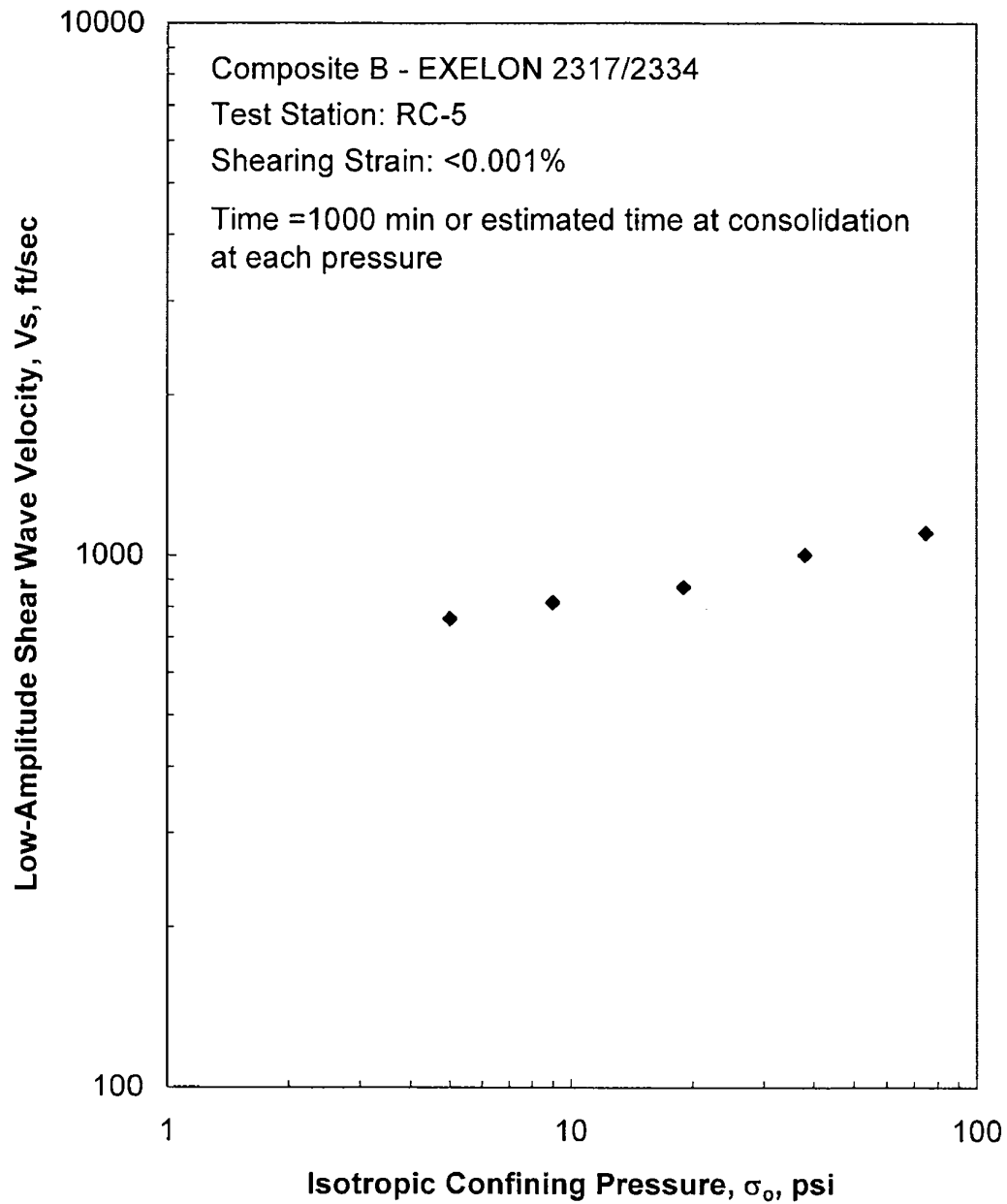


Figure P.4 Variation in Low-Amplitude Shear Wave Velocity with Isotropic Confining Pressure from Resonant Column Tests

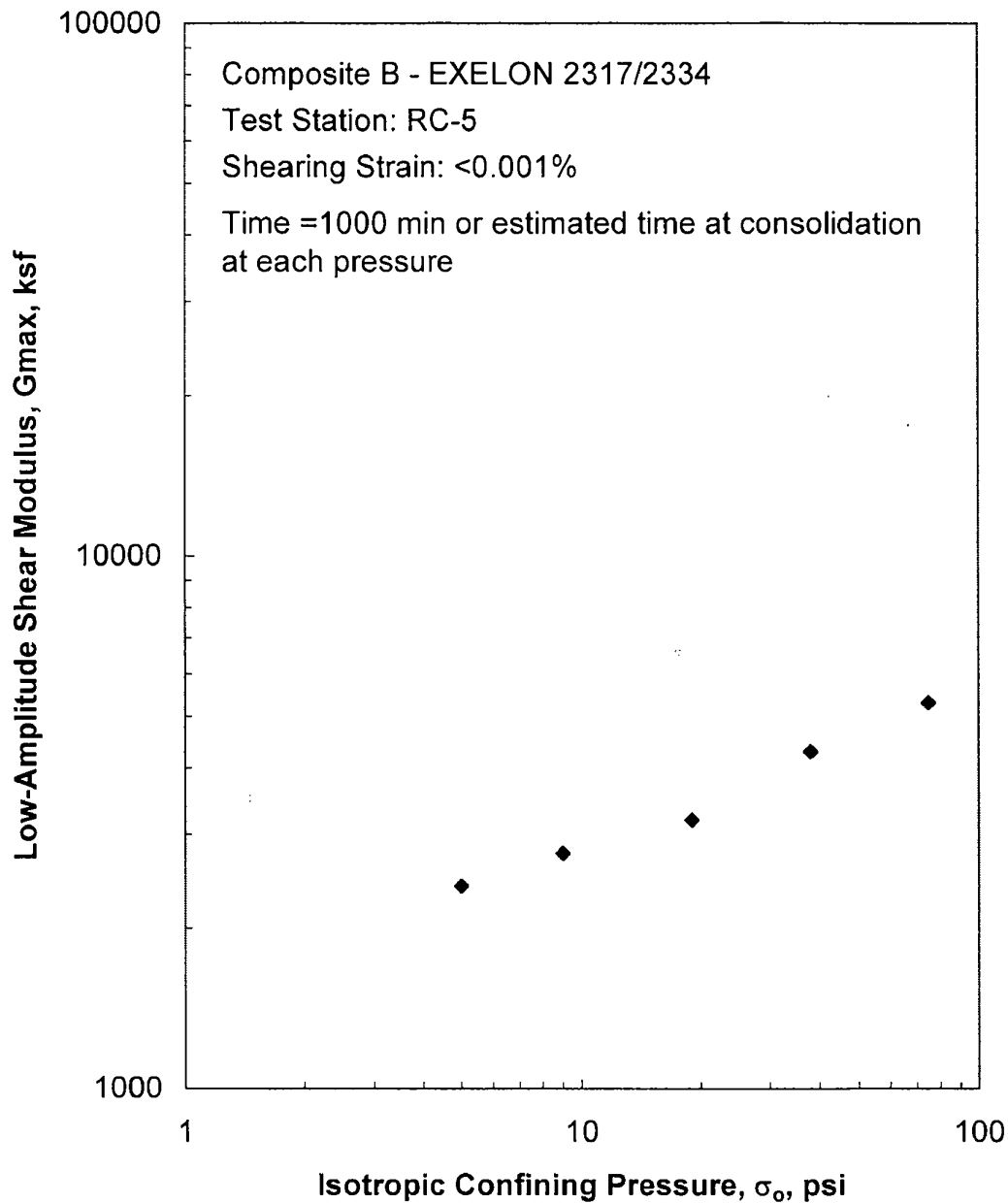


Figure P.5 Variation in Low-Amplitude Shear Modulus with Isotropic Confining Pressure from Resonant Column Tests

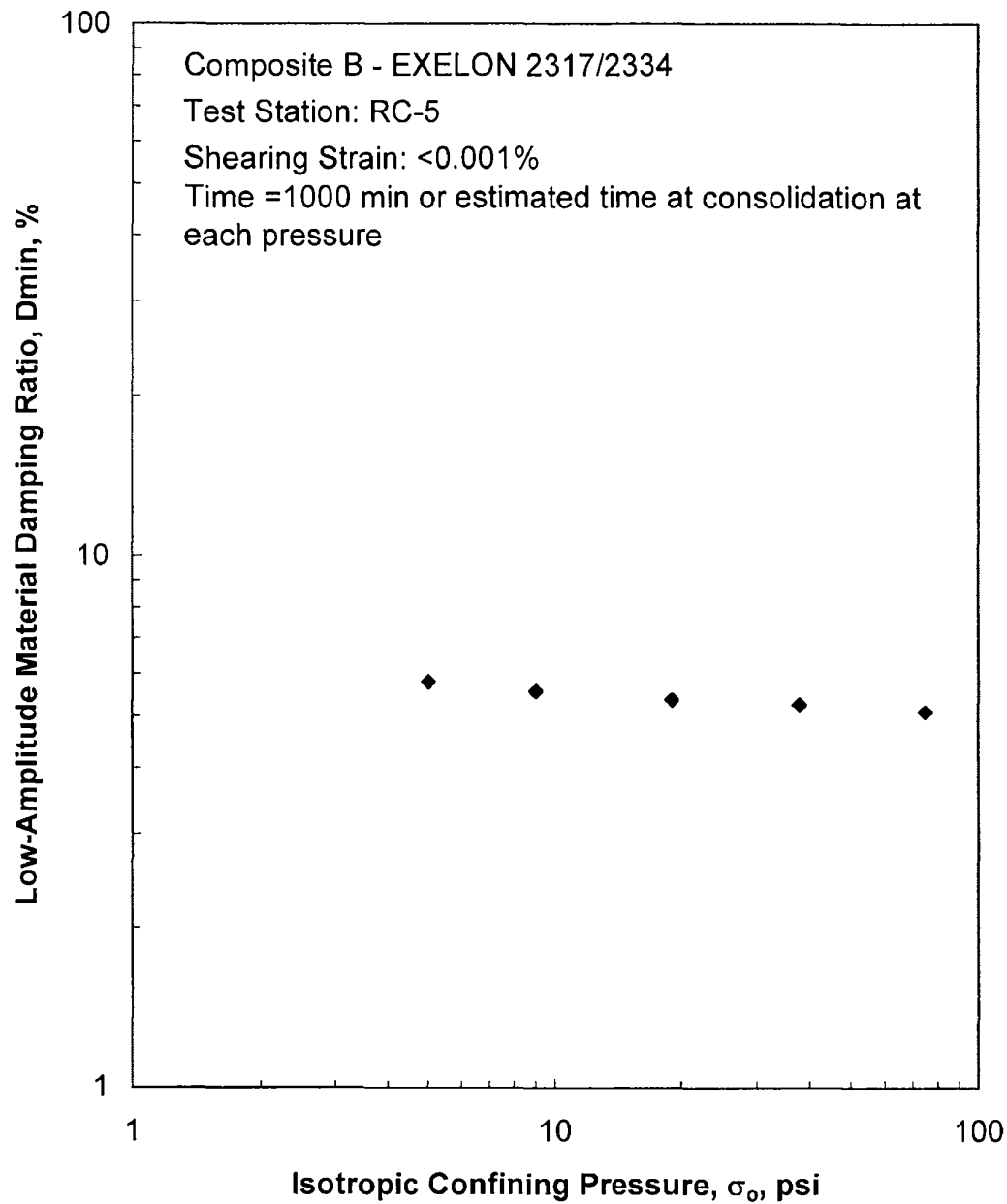


Figure P.6 Variation in Low-Amplitude Material Damping Ratio with Isotropic Confining Pressure from Resonant Column Tests

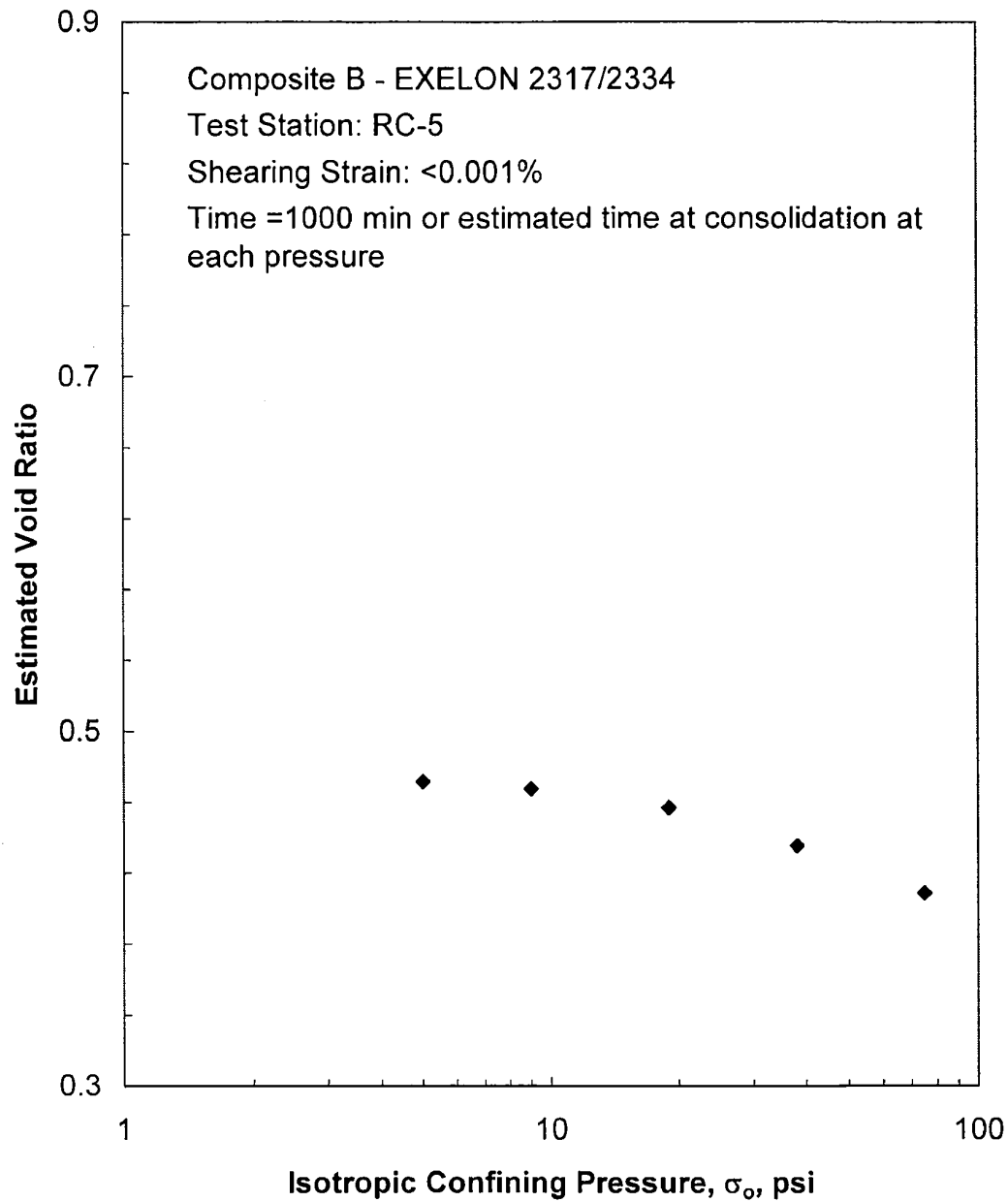


Figure P.7 Variation in Estimated Void Ratio with Isotropic Confining Pressure from Resonant Column Tests

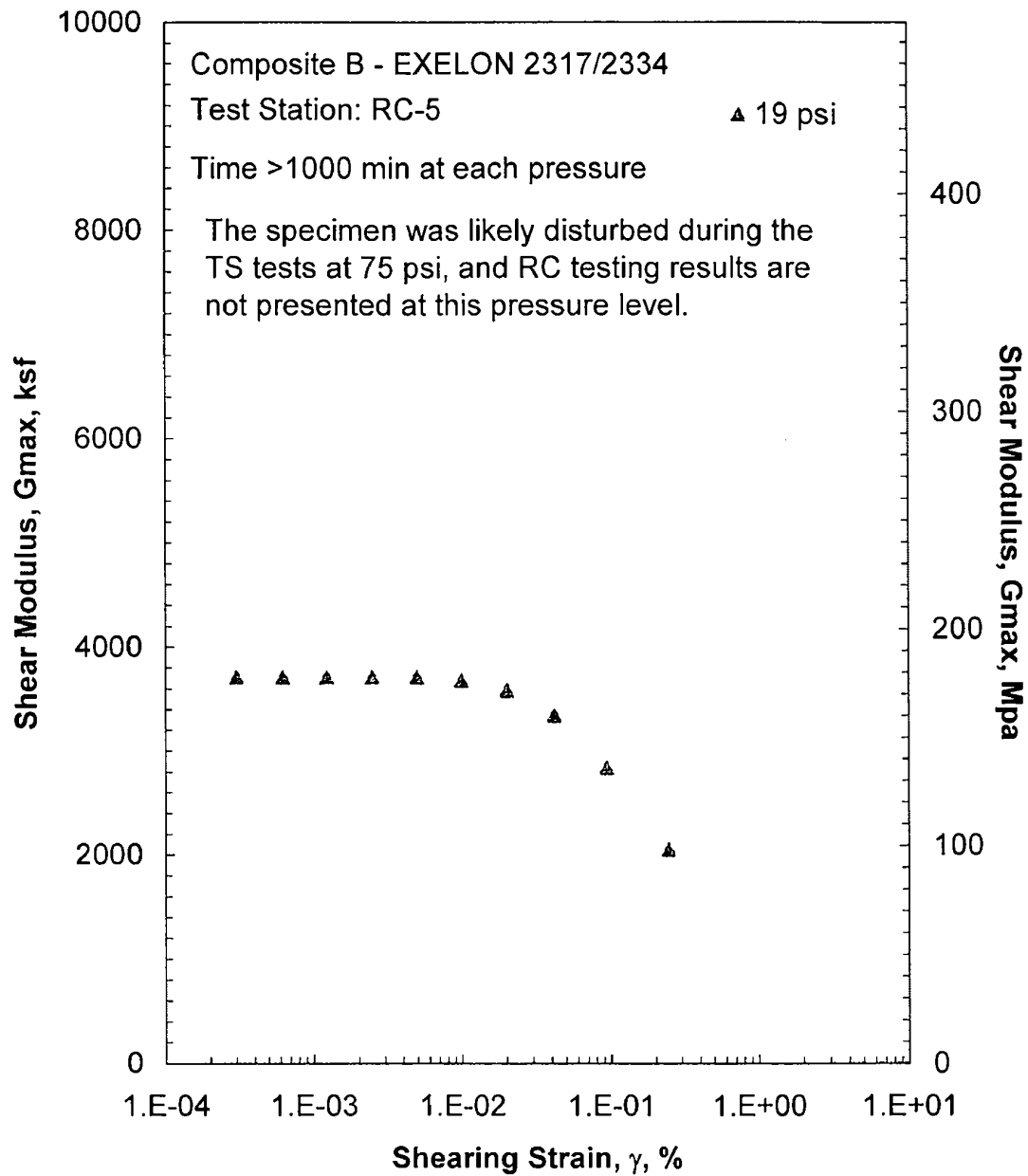


Figure P.8 Comparison of the Variation in Shear Modulus with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests

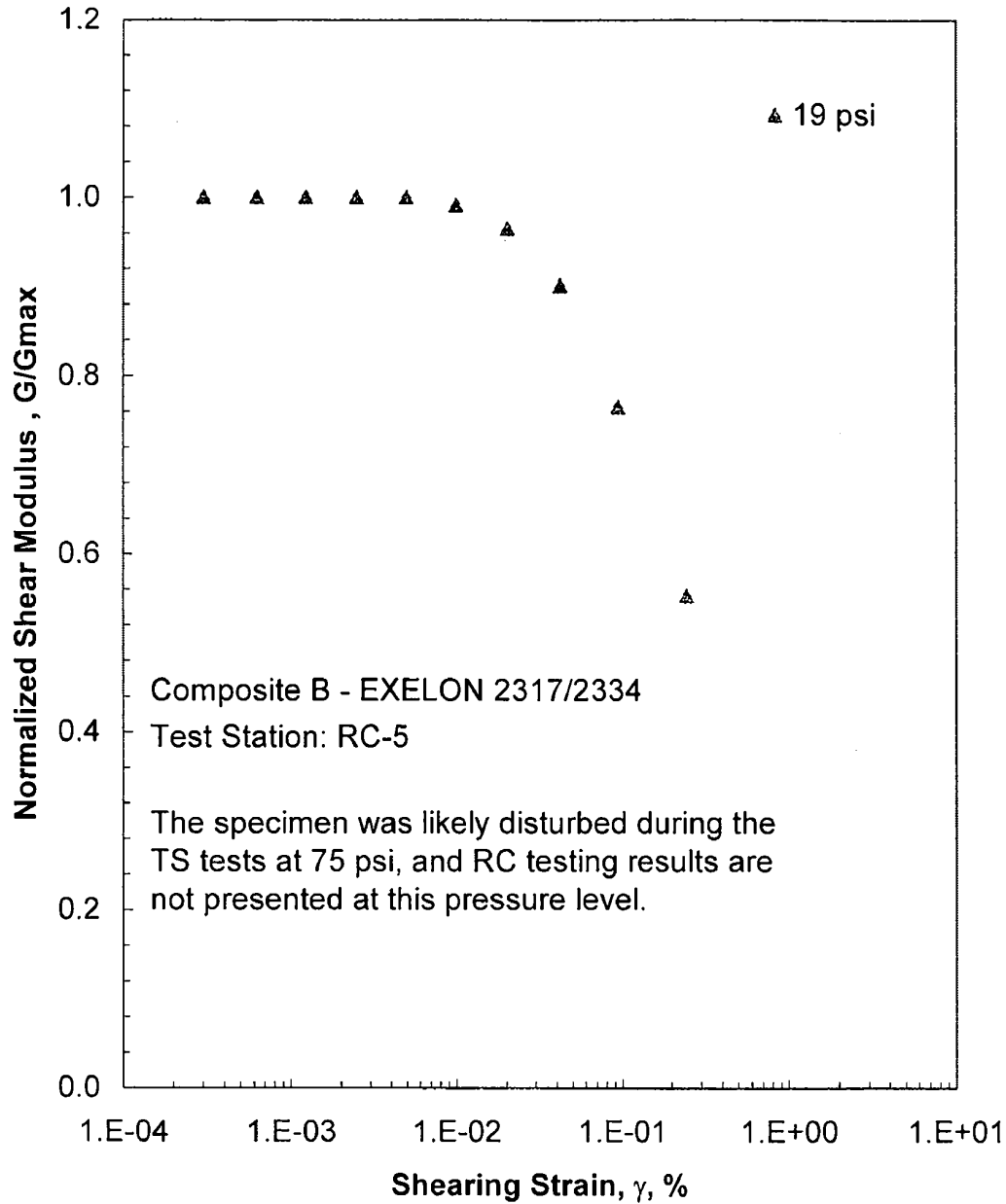


Figure P.9 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests

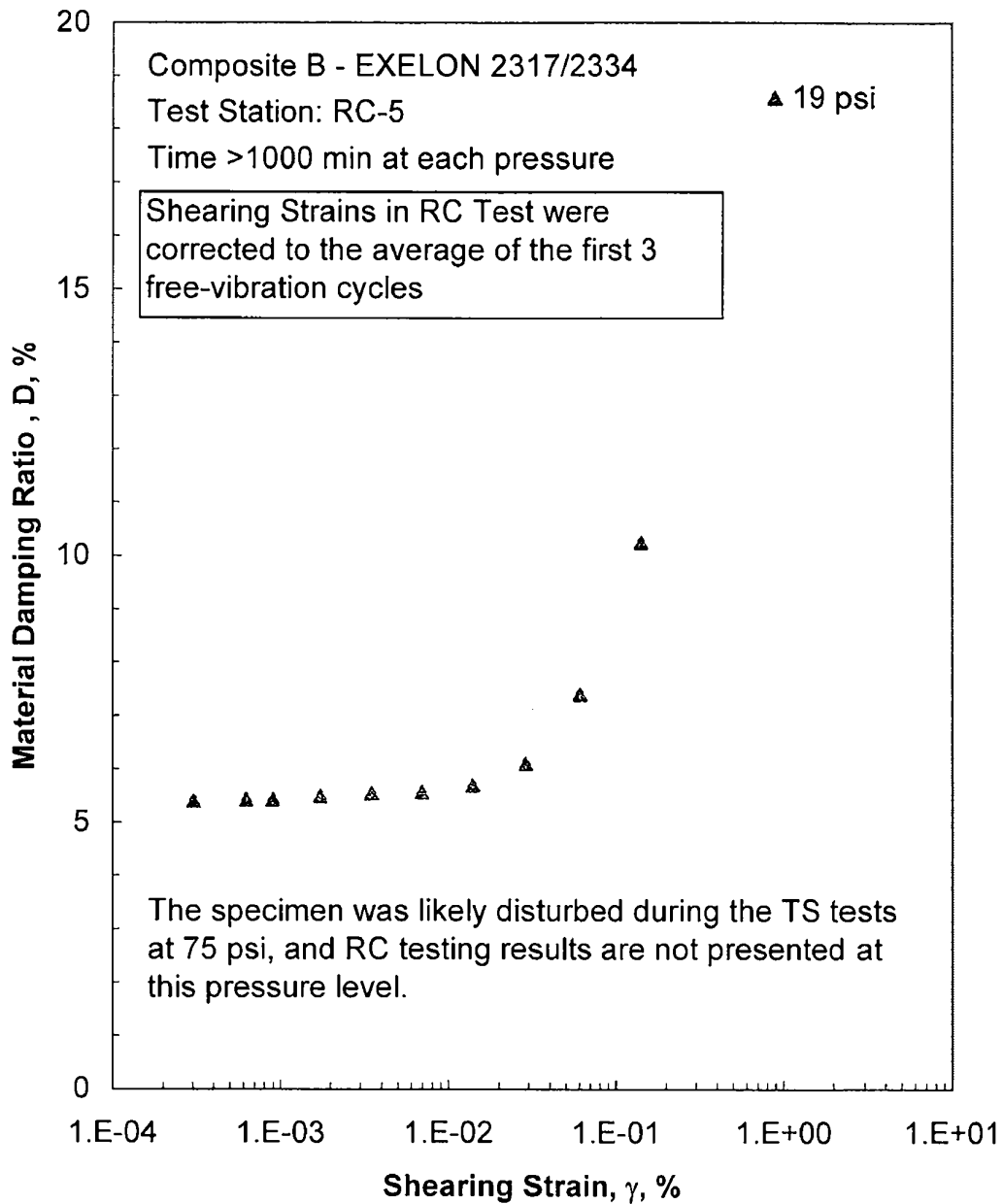


Figure P.10 Comparison of the Variation in Material Damping Ratio with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests

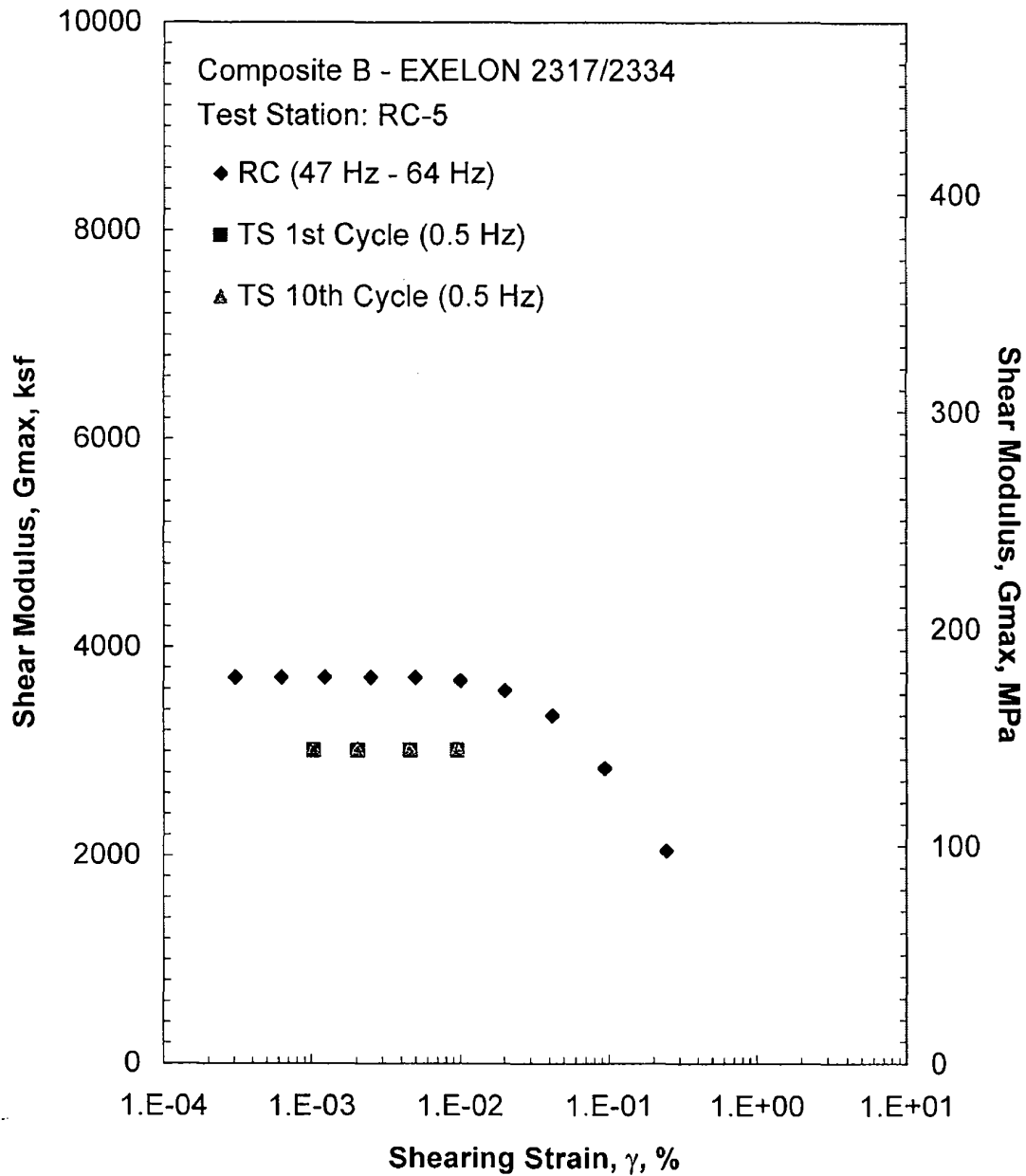


Figure P.11 Comparison of the Variation in Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

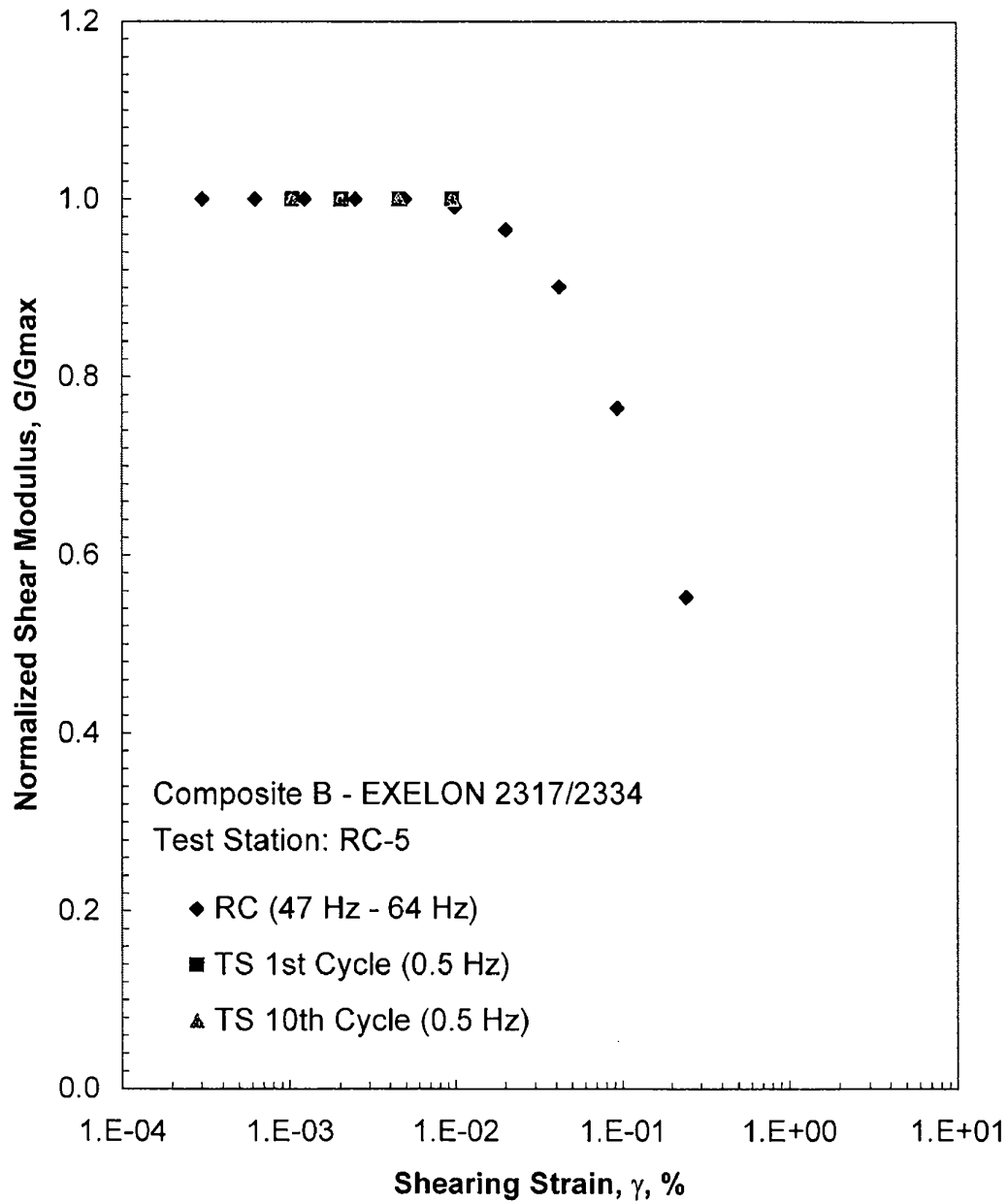


Figure P.12 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

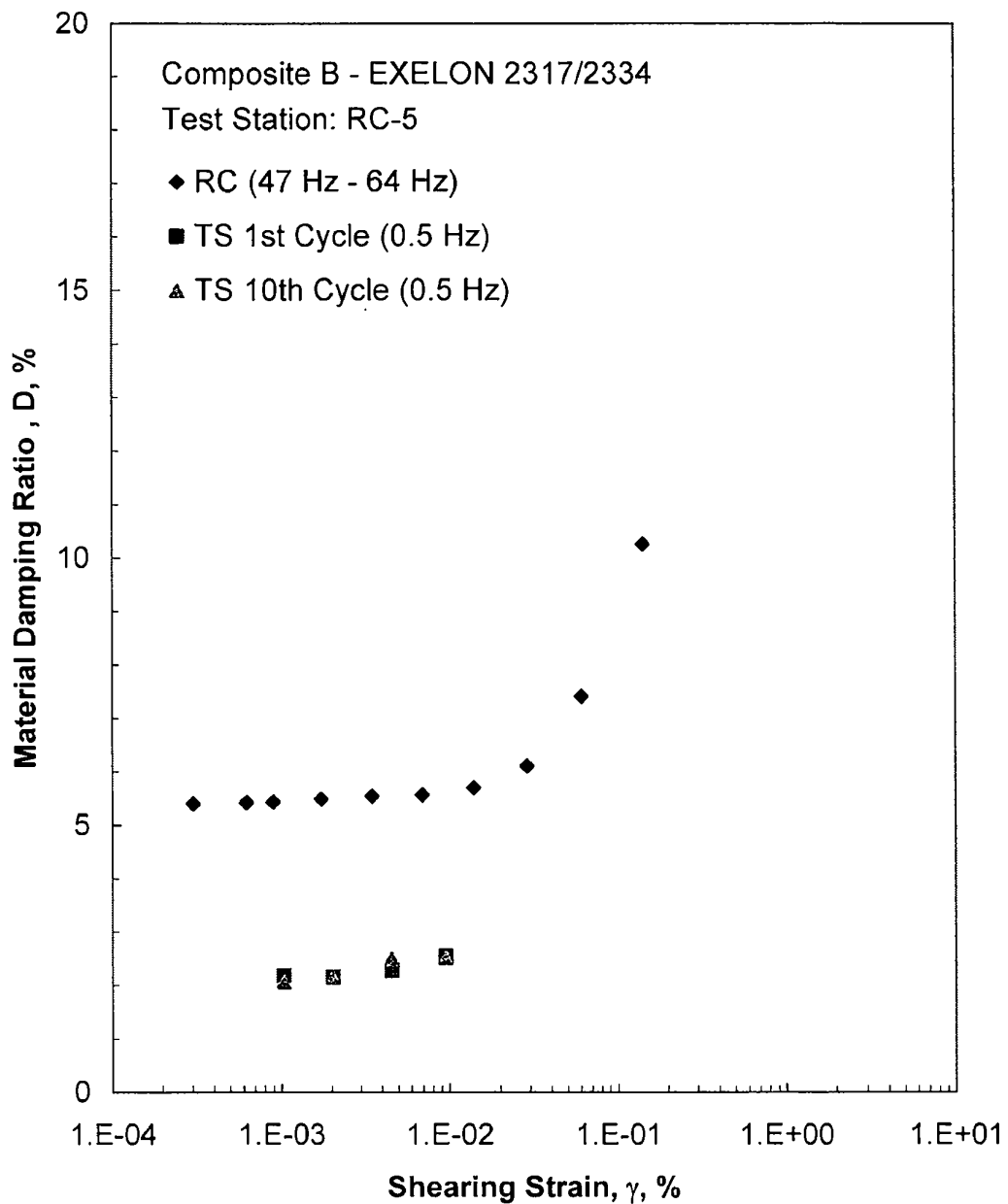


Figure P.13 Comparison of the Variation in Material Damping Ratio with Shearing Strain at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

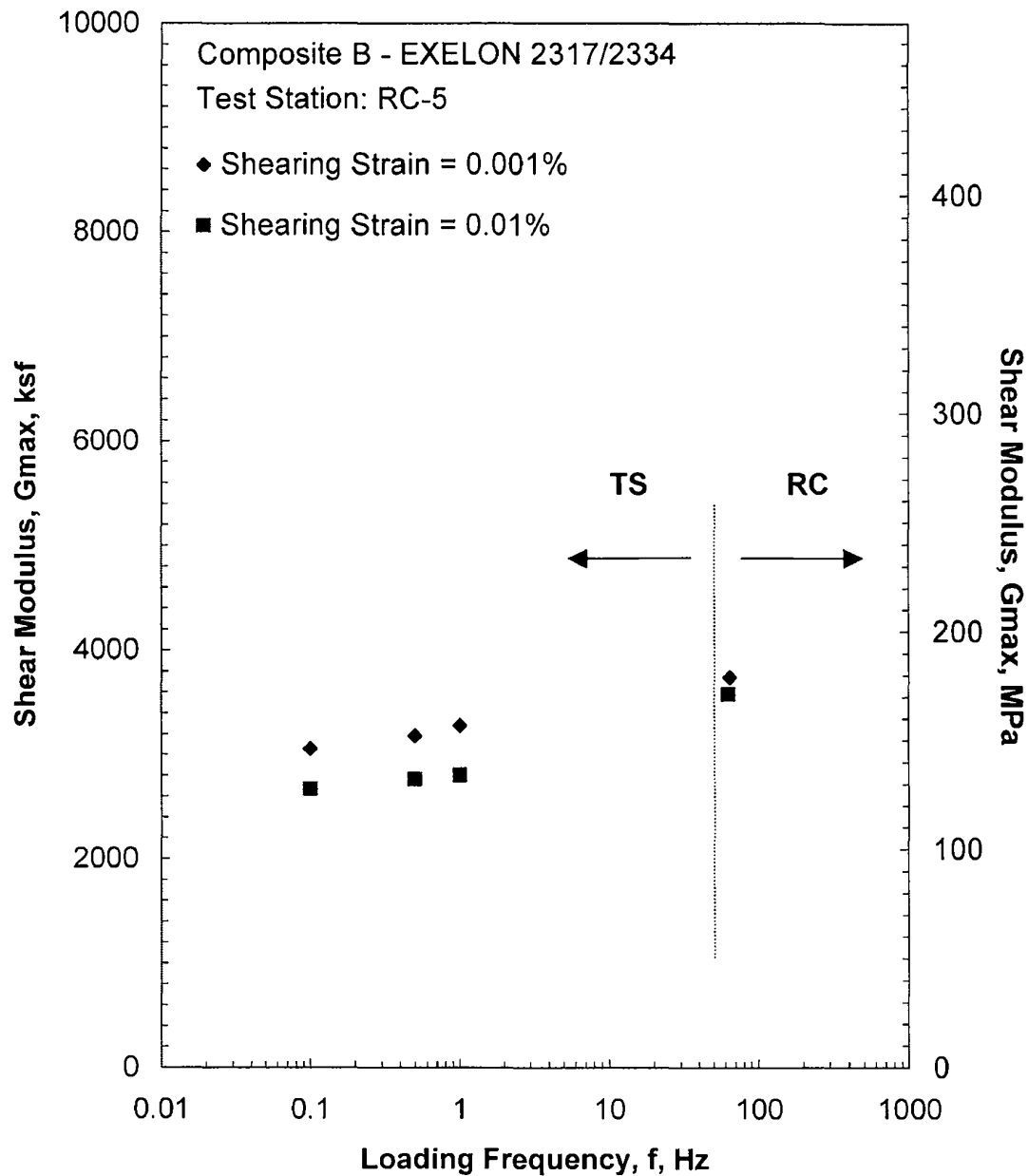


Figure P.14 Comparison of the Variation in Shear Modulus with Loading Frequency at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

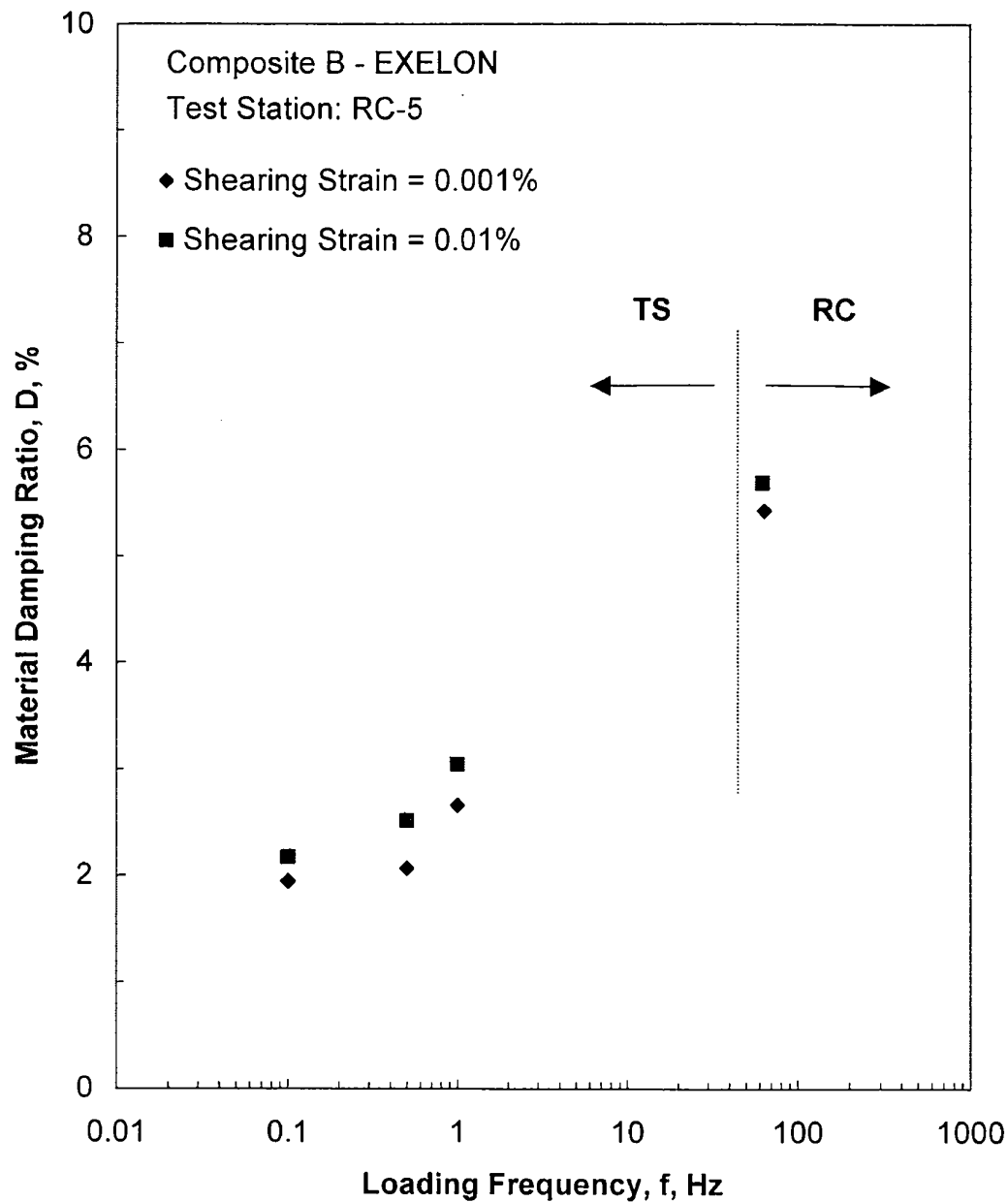


Figure P.15 Comparison of the Variation in Material Damping Ratio with Loading Frequency at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

Table P.1 Variation in Low-Amplitude Shear Wave Velocity, Low-Amplitude Shear Modulus, Low-Amplitude Material Damping Ratio and Estimated Void Ratio with Isotropic Confining Pressure from RC Tests of Specimen Composite B - EXELON 2317/2334

Isotropic Confining Pressure, σ_o			Low-Amplitude Shear Modulus, G_{max}		Low-Amplitude Shear Wave Velocity, V_s	Low-Amplitude Material Damping Ratio, D_{min}	Estimated Void Ratio, e
(psi)	(psf)	(kPa)	(ksf)	(MPa)	(fps)	(%)	
5	720	34	2399	115	760	5.79	0.47
9	1296	62	2762	133	815	5.56	0.47
19	2736	131	3185	153	872	5.36	0.45
38	5472	262	4278	205	1003	5.25	0.43
75	10800	517	5290	254	1105	5.08	0.41

Table P.2 Variation in Shear Modulus and Material Damping Ratio with Shearing Strain from RC Tests of Specimen Composite B - EXELON 2317/2334; Isotropic Confining Pressure, $\sigma_o=19$ psi (2.7 ksf = 131 kPa)

Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Average ⁺ Shearing Strain, %	Material Damping Ratio ^x , D, %
3.02E-04	3708	1.00	3.02E-04	5.40
6.23E-04	3708	1.00	6.23E-04	5.42
1.23E-03	3708	1.00	8.96E-04	5.43
2.48E-03	3707	1.00	1.73E-03	5.49
4.94E-03	3707	1.00	3.51E-03	5.54
9.95E-03	3675	0.99	6.96E-03	5.56
2.02E-02	3579	0.97	1.39E-02	5.69
4.20E-02	3341	0.90	2.90E-02	6.10
9.34E-02	2836	0.76	6.07E-02	7.40
2.44E-01	2048	0.55	1.42E-01	10.25

⁺ Average Shearing Strain from the First Three Cycles of the Free Vibration Decay Curve

^x Average Damping Ratio from the First Three Cycles of the Free Vibration Decay Curve

Table P.3 Variation in Shear Modulus, Normalized Shear Modulus and Material Damping Ratio with Shearing Strain from TS Tests of Specimen Composite B - EXELON 2317/2334; Isotropic Confining Pressure, $\sigma_0 = 19$ psi (2.7 ksf = 131 kPa)

First Cycle				Tenth Cycle			
Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %	Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %
1.04E-03	3010	1.00	2.18	1.04E-03	3019	1.00	2.06
2.05E-03	3010	1.00	2.15	2.04E-03	3019	1.00	2.14
4.58E-03	3010	1.00	2.27	4.55E-03	3019	1.00	2.49
9.52E-03	3010	1.00	2.54	9.54E-03	3019	1.00	2.51

Table P.4 Variation in Shear Modulus and Material Damping Ratio with Shearing Strain from RC Tests of Specimen Composite B - EXELON 2317/2334; Isotropic Confining Pressure, $\sigma_o = 75$ psi (10.8 ksf = 517 kPa)

Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Average ⁺ Shearing Strain, %	Material Damping Ratio ^x , D, %
---	---	---	---	---

⁺ Average Shearing Strain from the First Three Cycles of the Free Vibration Decay Curve

^x Average Damping Ratio from the First Three Cycles of the Free Vibration Decay Curve

* The specimen was likely disturbed during the TS tests at 75 psi, and RC testing results are not presented at this pressure level.

Table P.5 Variation in Shear Modulus, Normalized Shear Modulus and Material Damping Ratio with Shearing Strain from TS Tests of Specimen Composite B - EXELON 2317/2334; Isotropic Confining Pressure, $\sigma_o=75$ psi (10.8 ksf = 517 kPa)

First Cycle				Tenth Cycle			
Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %	Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %
---	---	---	---	---	---	---	---

* The specimen was likely disturbed during the TS tests at 75 psi, and RC testing results are not presented at this pressure level.

APPENDIX Q

Specimen Composite A - EXELON 2319/2334

Borehole ---

Sample ---

Depth = --- ft (--- m)

Total Unit Weight = 135.9 lb/ft³

Water Content = 14.4 %

Estimated In-Situ K_o = 0.5

Estimated In-Situ Mean Effective
Stress = 19 psi

FUGRO JOB #: 0401-1686
Testing Station: RC6

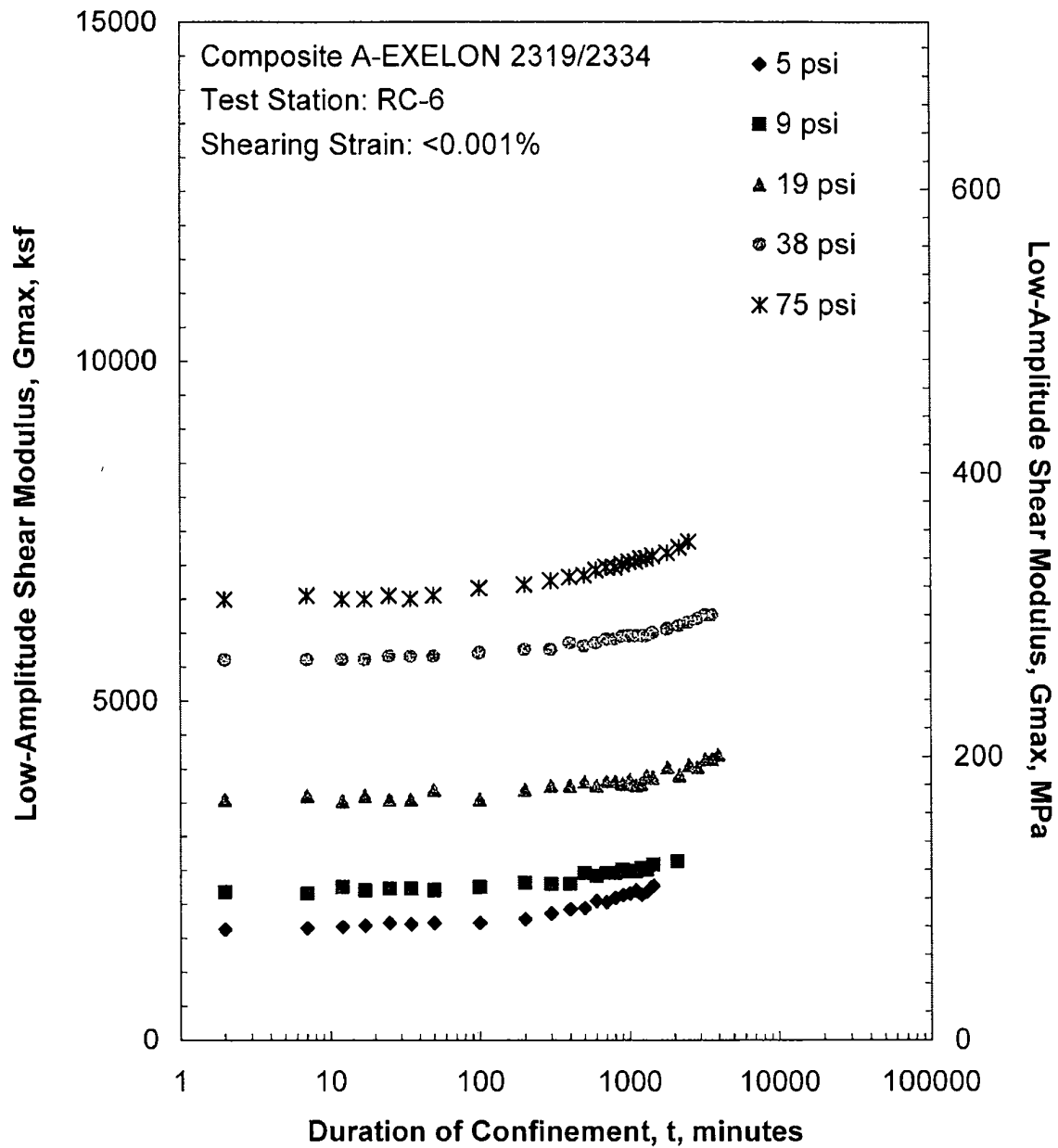


Figure Q.1 Variation in Low-Amplitude Shear Modulus with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests

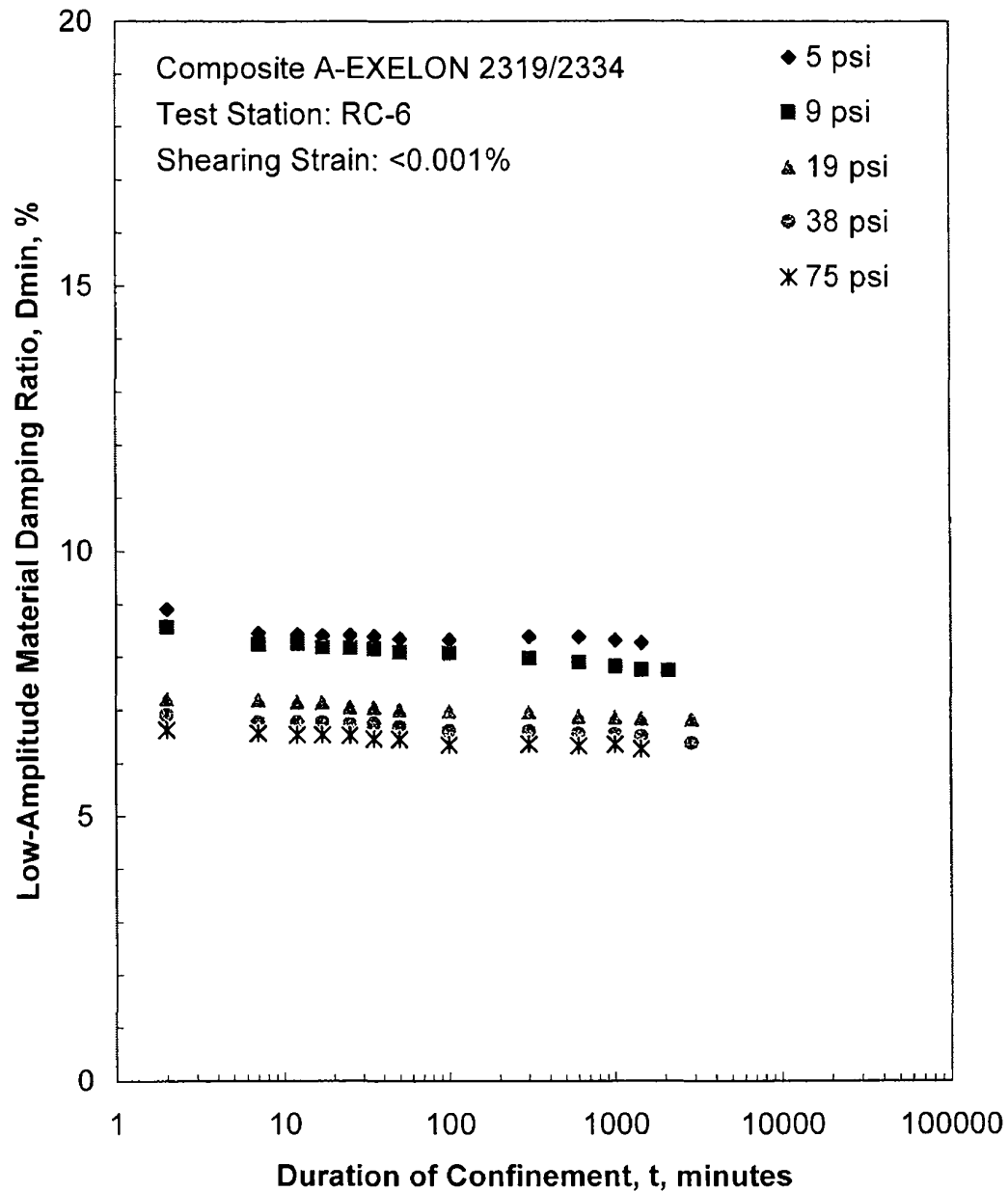


Figure Q.2 Variation in Low-Amplitude Material Damping Ratio with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests

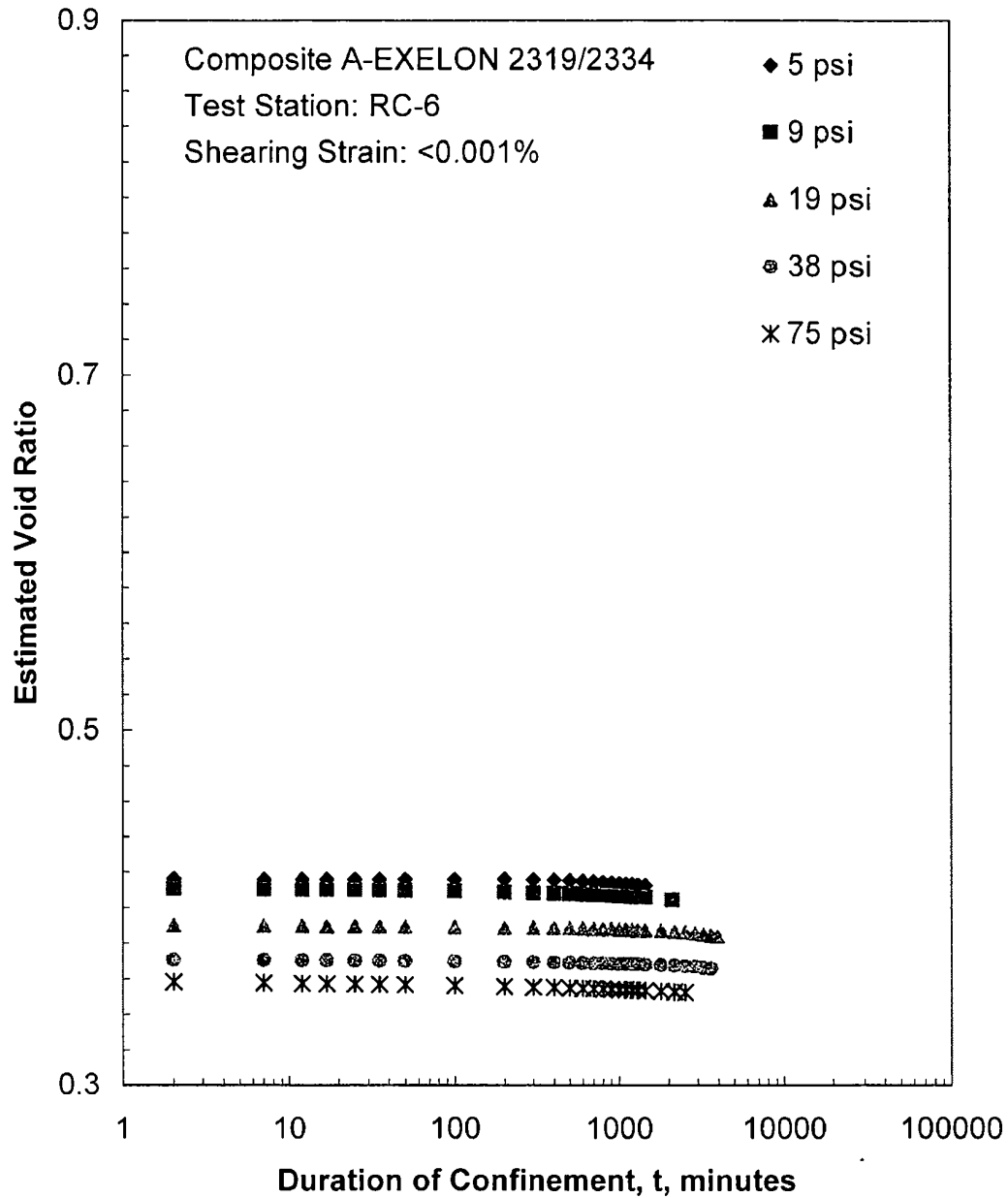


Figure Q.3 Variation in Estimated Void Ratio with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests

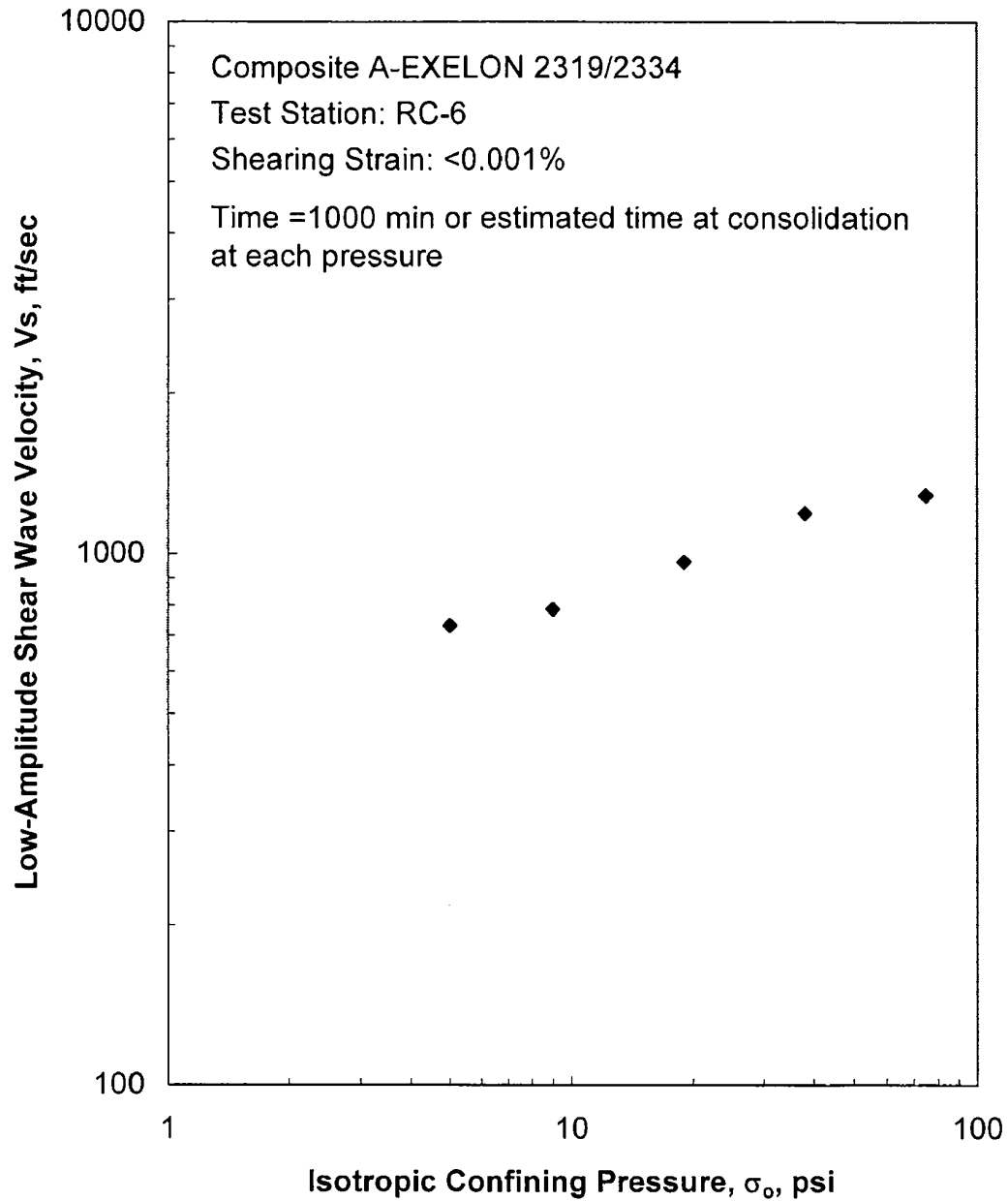


Figure Q.4 Variation in Low-Amplitude Shear Wave Velocity with Isotropic Confining Pressure from Resonant Column Tests

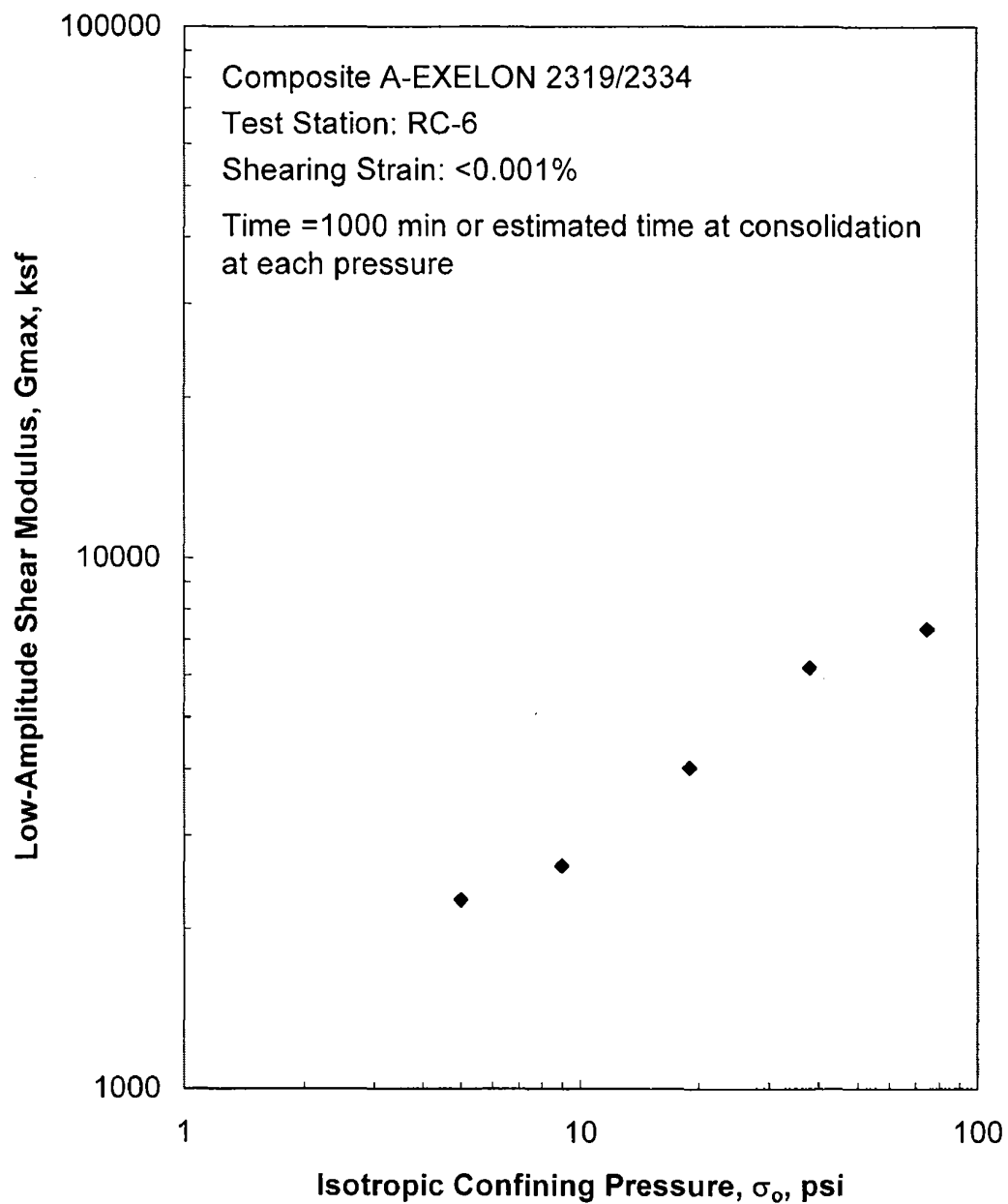


Figure Q.5 Variation in Low-Amplitude Shear Modulus with Isotropic Confining Pressure from Resonant Column Tests

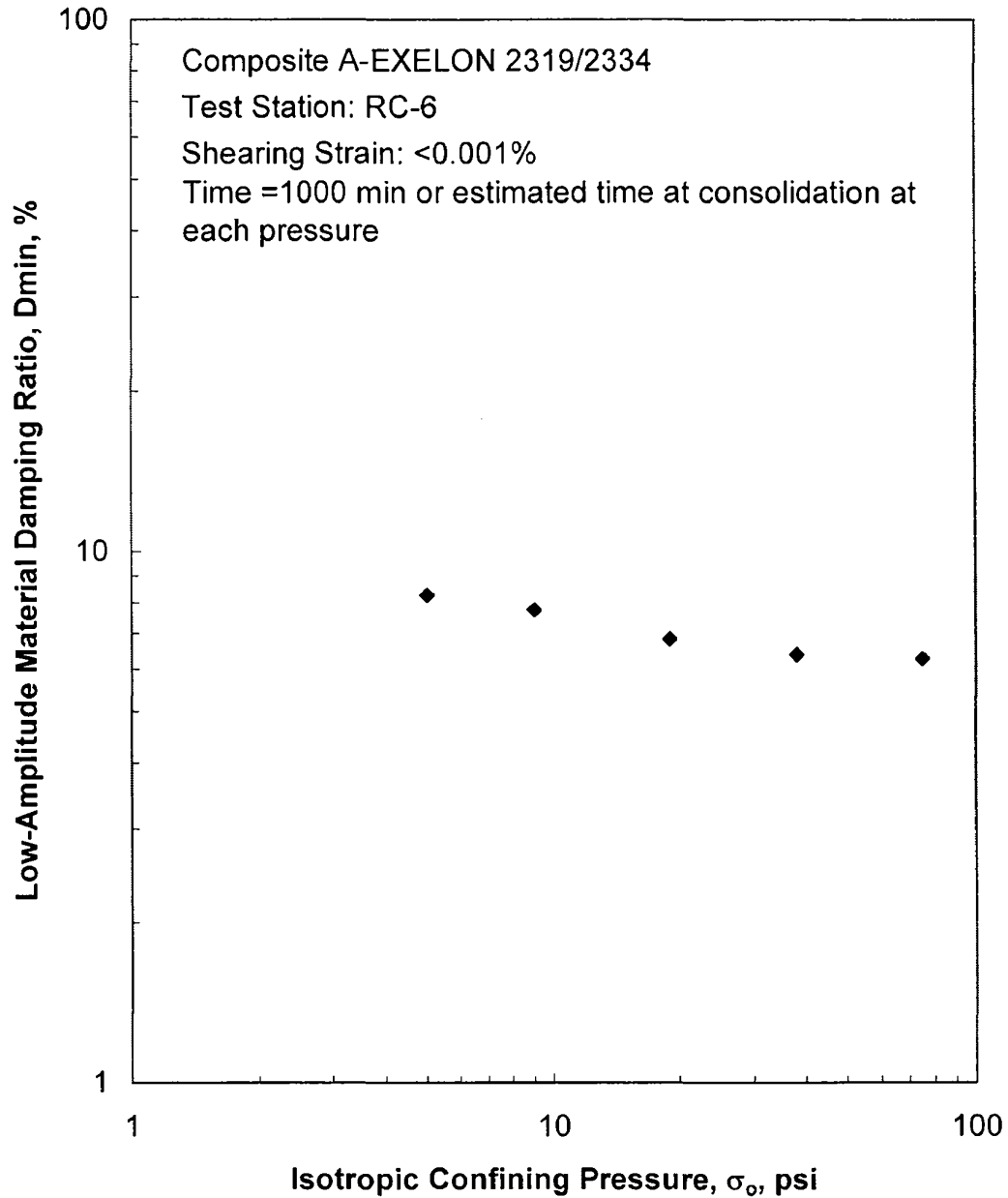


Figure Q.6 Variation in Low-Amplitude Material Damping Ratio with Isotropic Confining Pressure from Resonant Column Tests

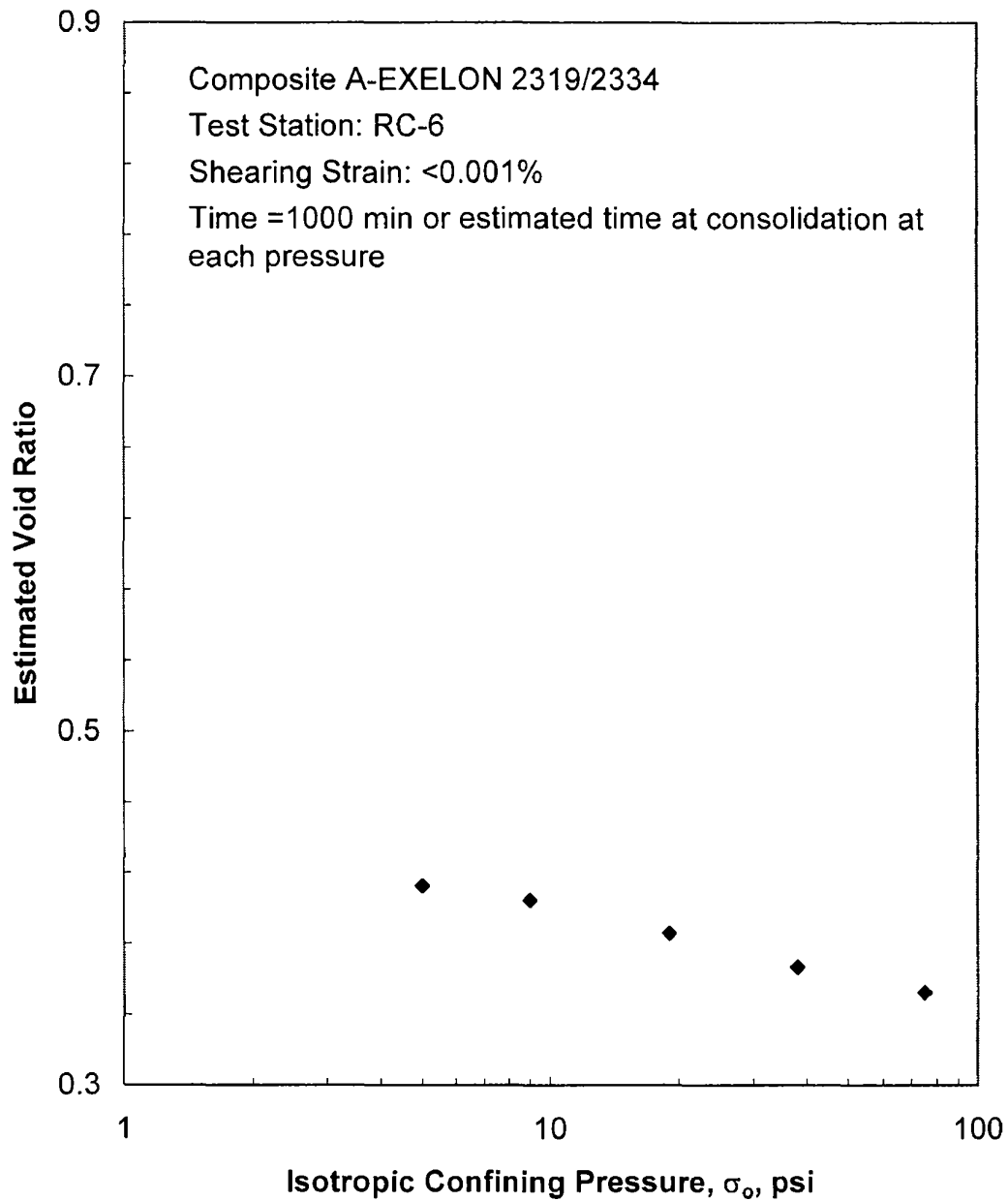


Figure Q.7 Variation in Estimated Void Ratio with Isotropic Confining Pressure from Resonant Column Tests

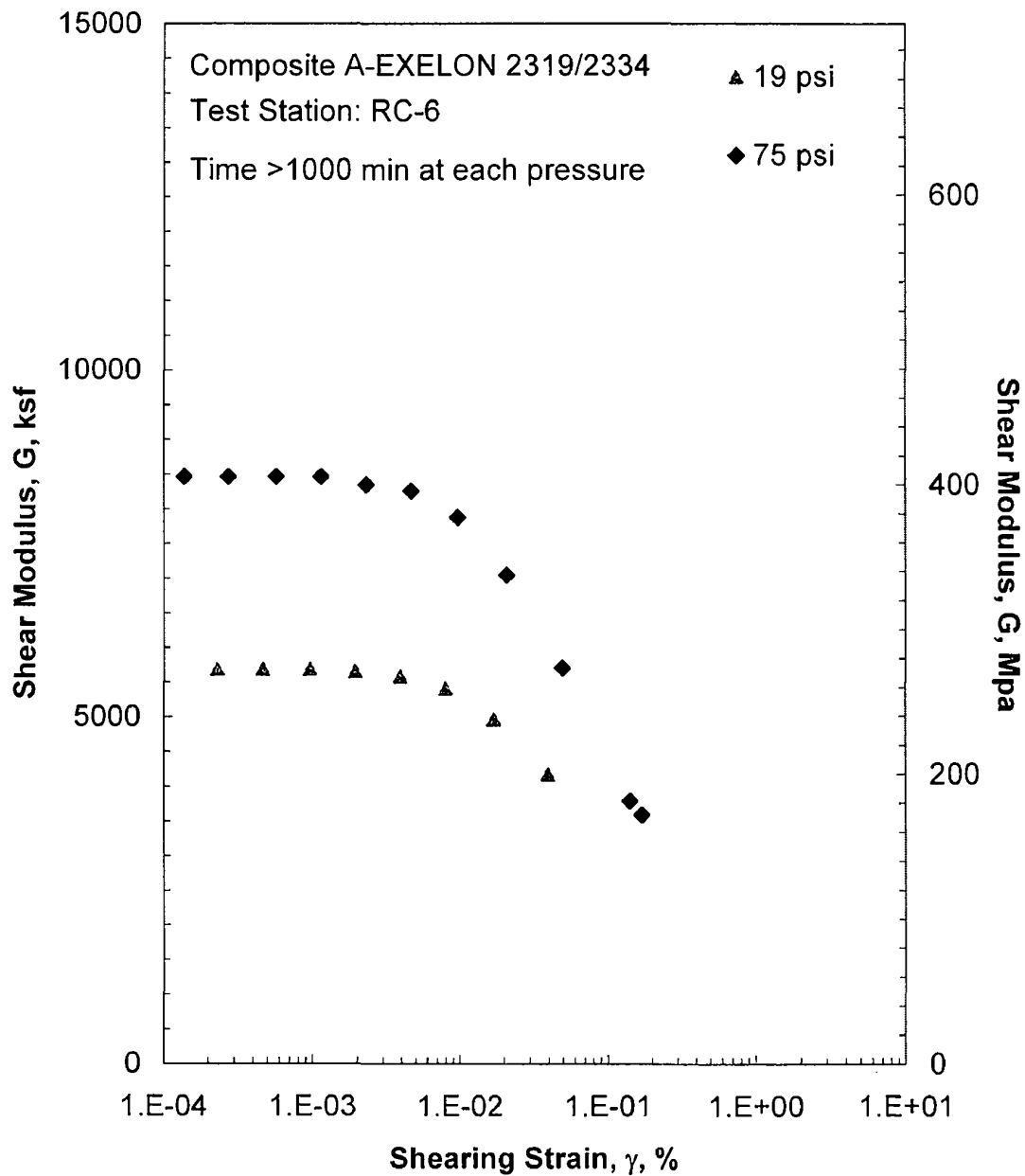


Figure Q.8 Comparison of the Variation in Shear Modulus with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests

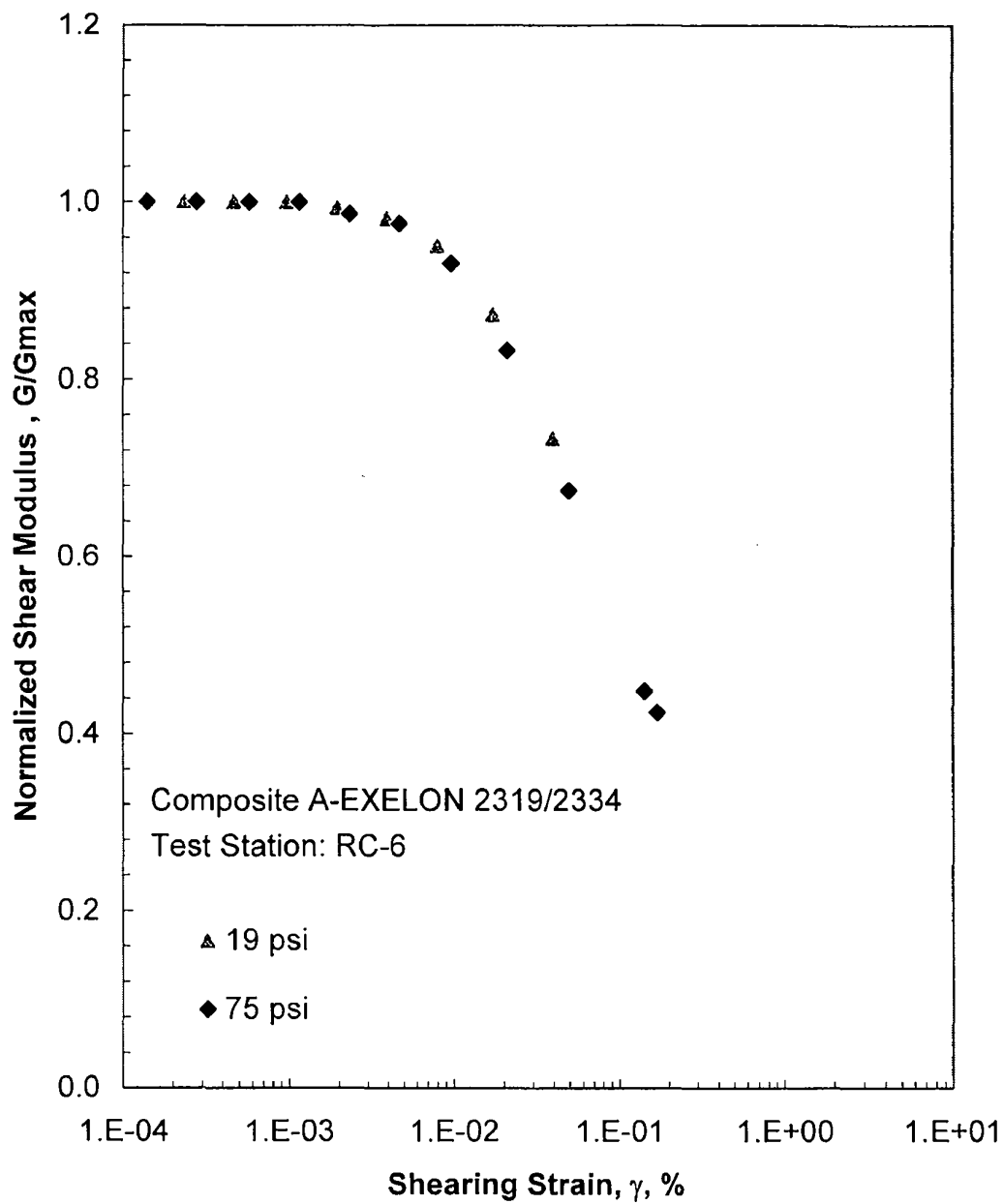


Figure Q.9 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests

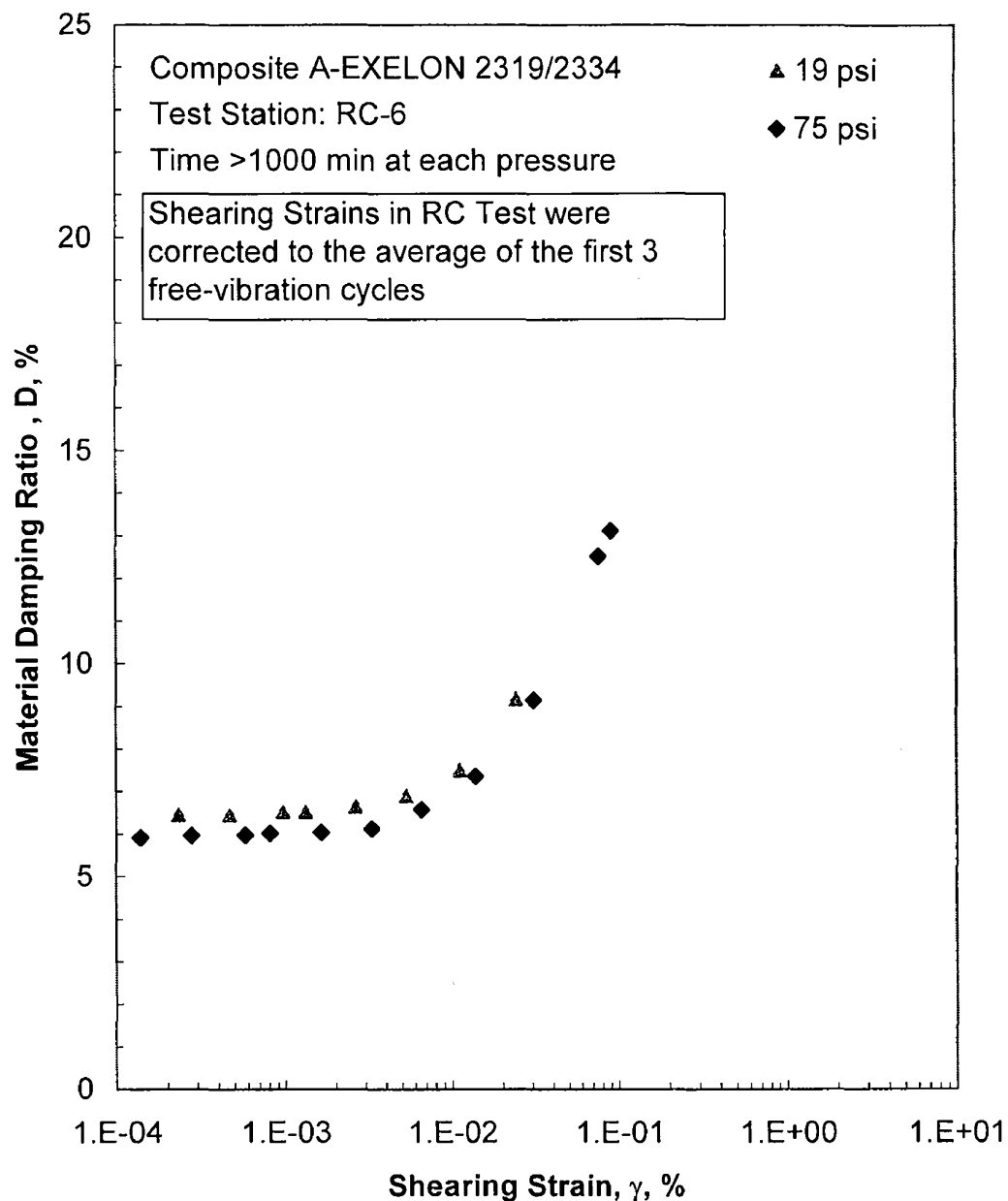


Figure Q.10 Comparison of the Variation in Material Damping Ratio with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests

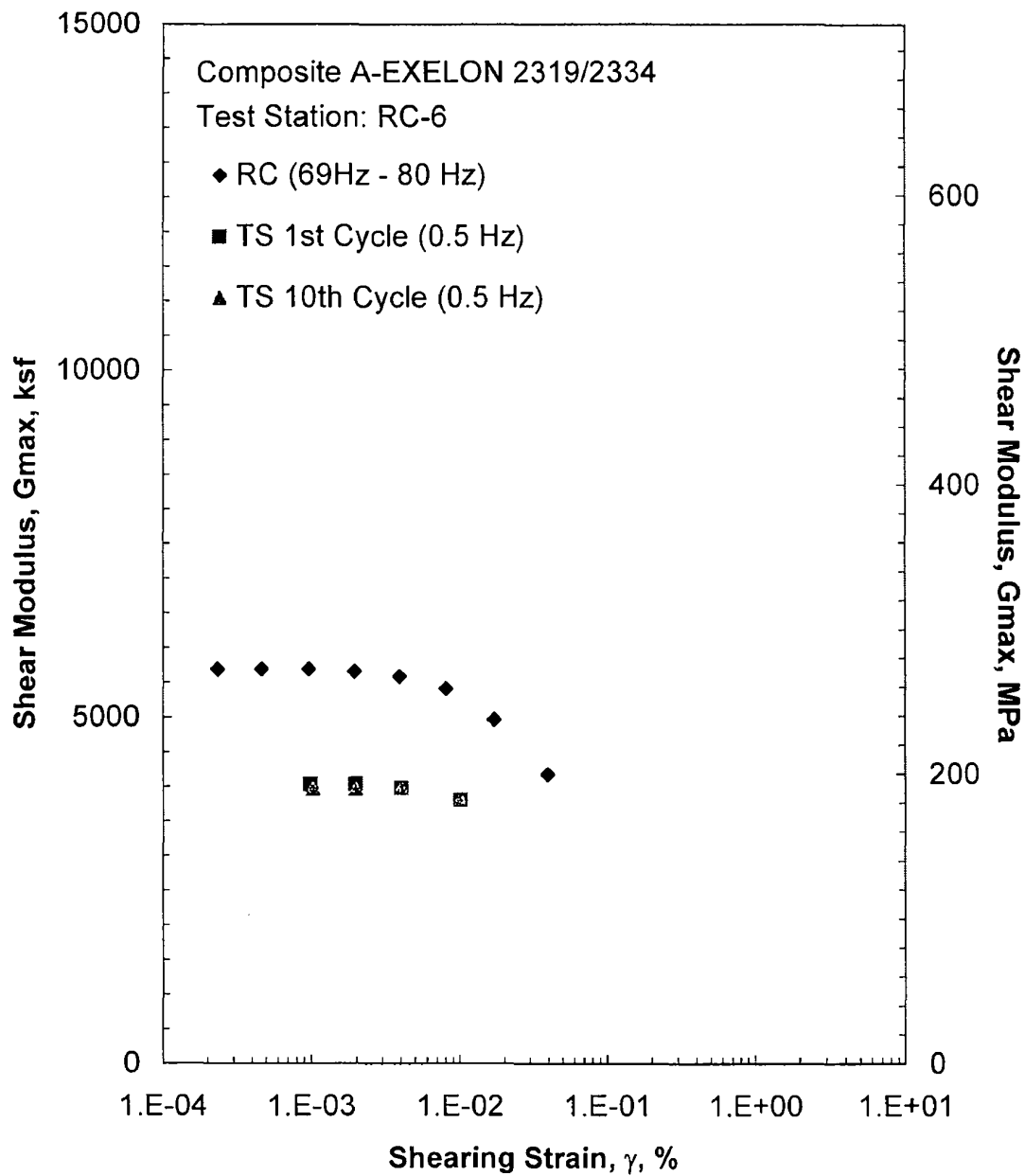


Figure Q.11 Comparison of the Variation in Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

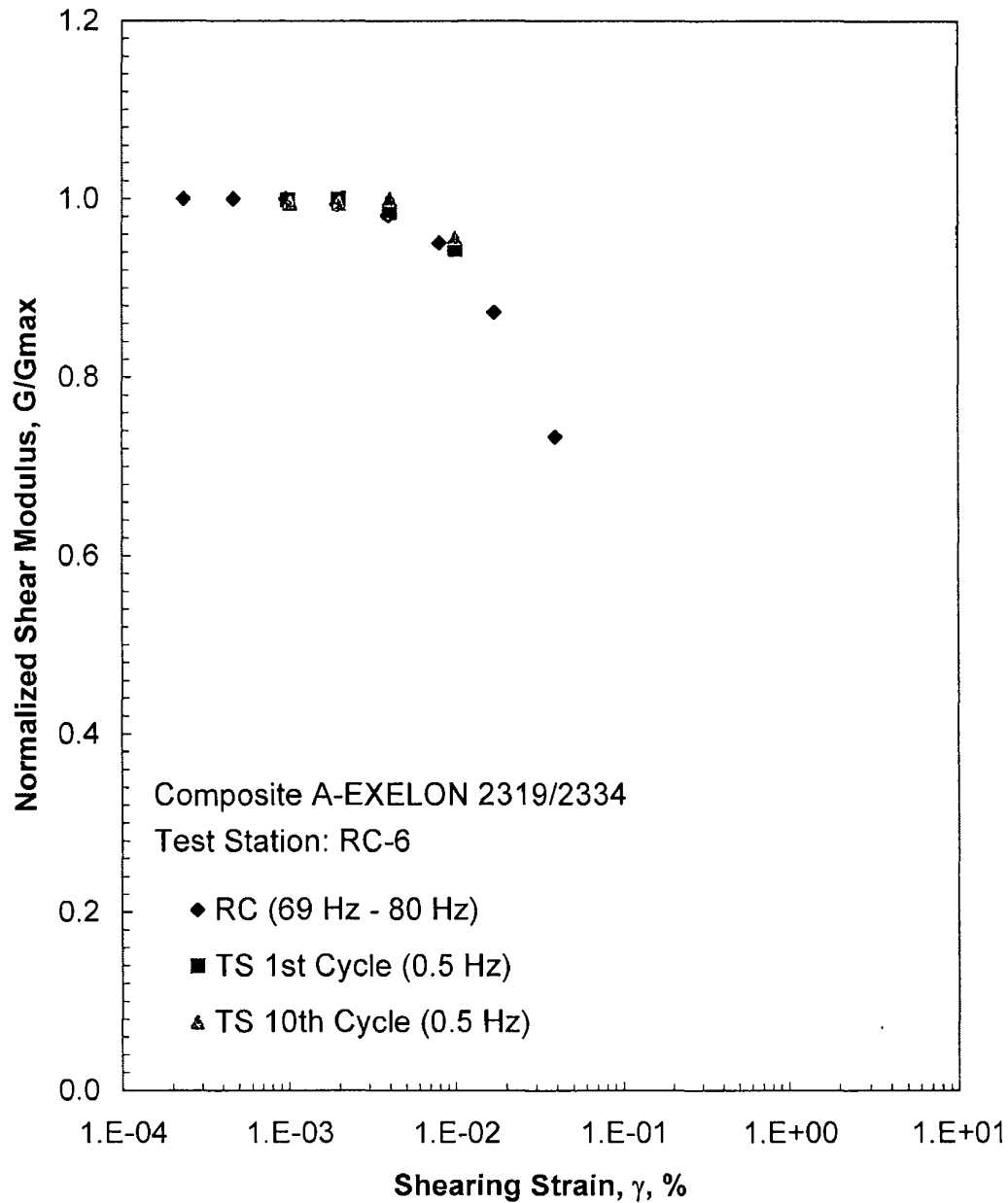


Figure Q.12 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

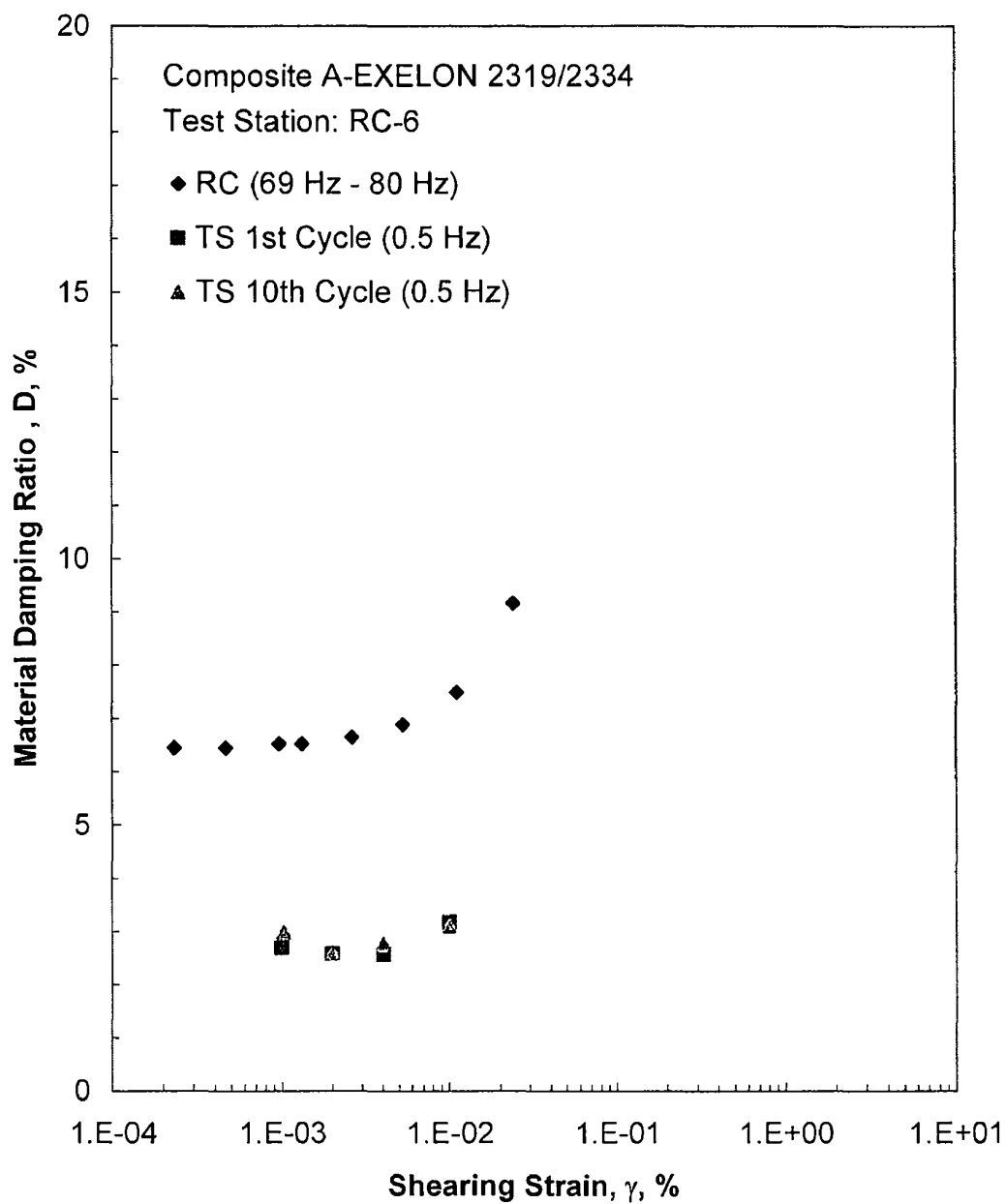


Figure Q.13 Comparison of the Variation in Material Damping Ratio with Shearing Strain at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

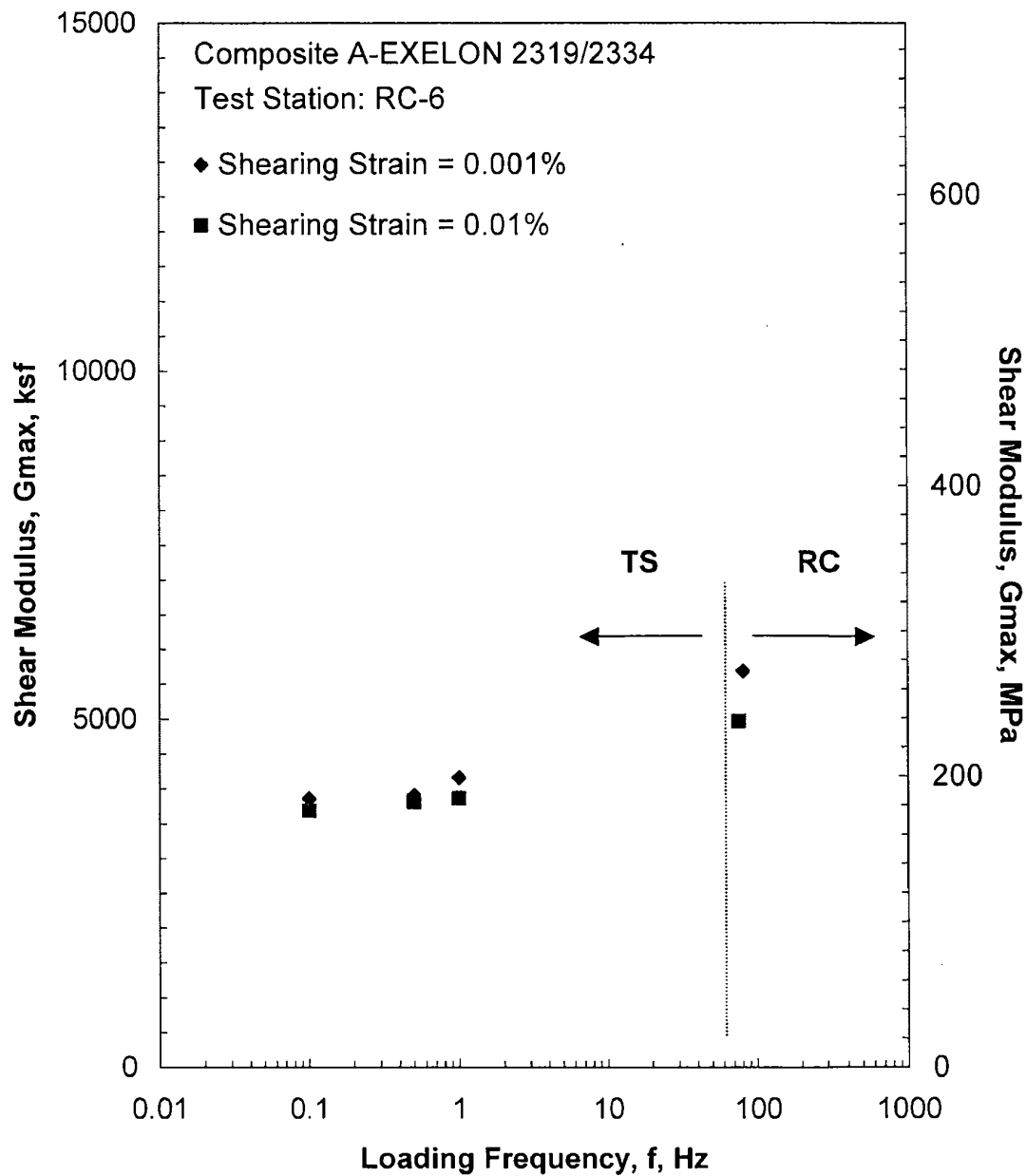


Figure Q.14 Comparison of the Variation in Shear Modulus with Loading Frequency at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

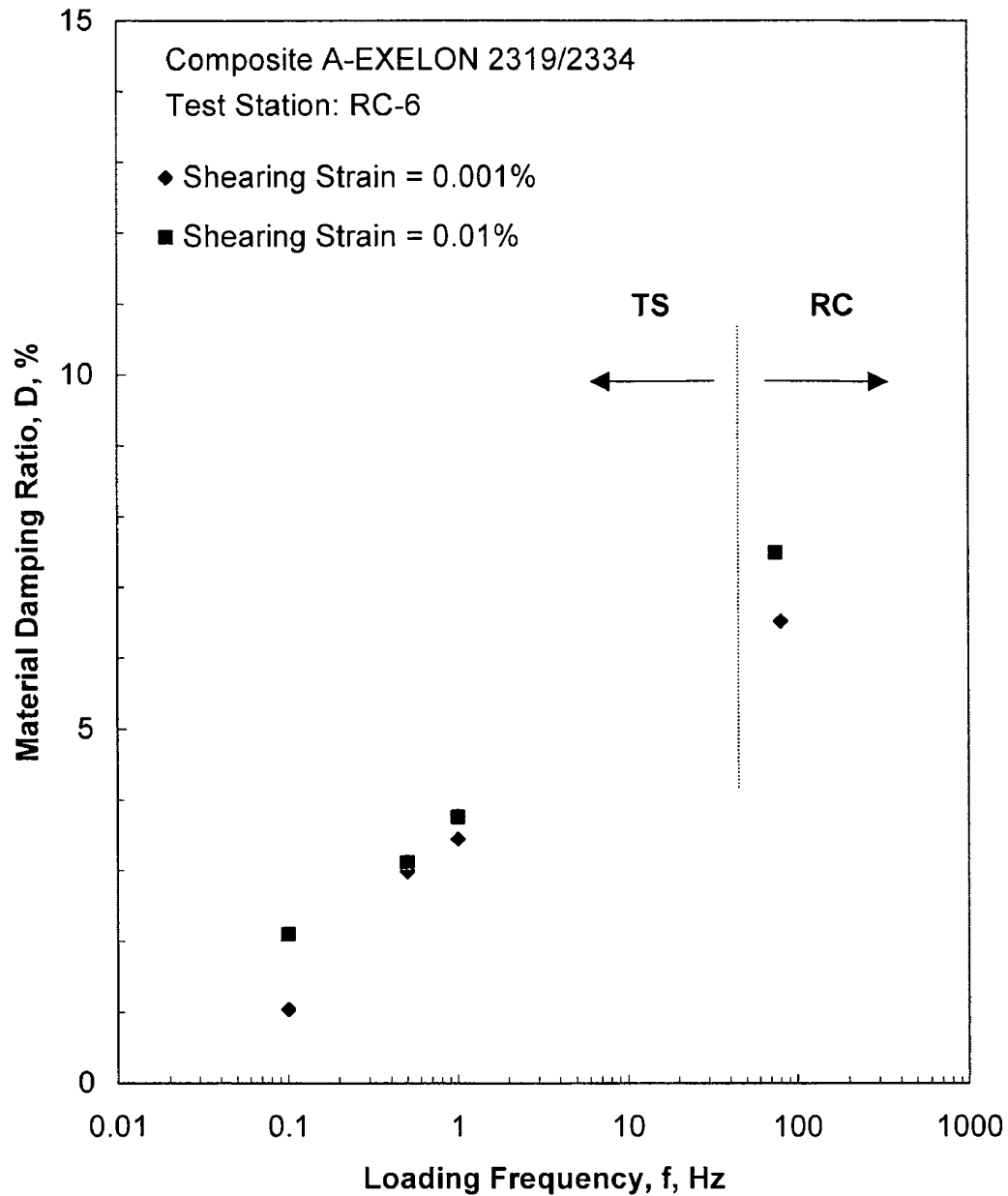


Figure Q.15 Comparison of the Variation in Material Damping Ratio with Loading Frequency at an Isotropic Confining Pressure of 19 psi from the Combined RCTS Tests

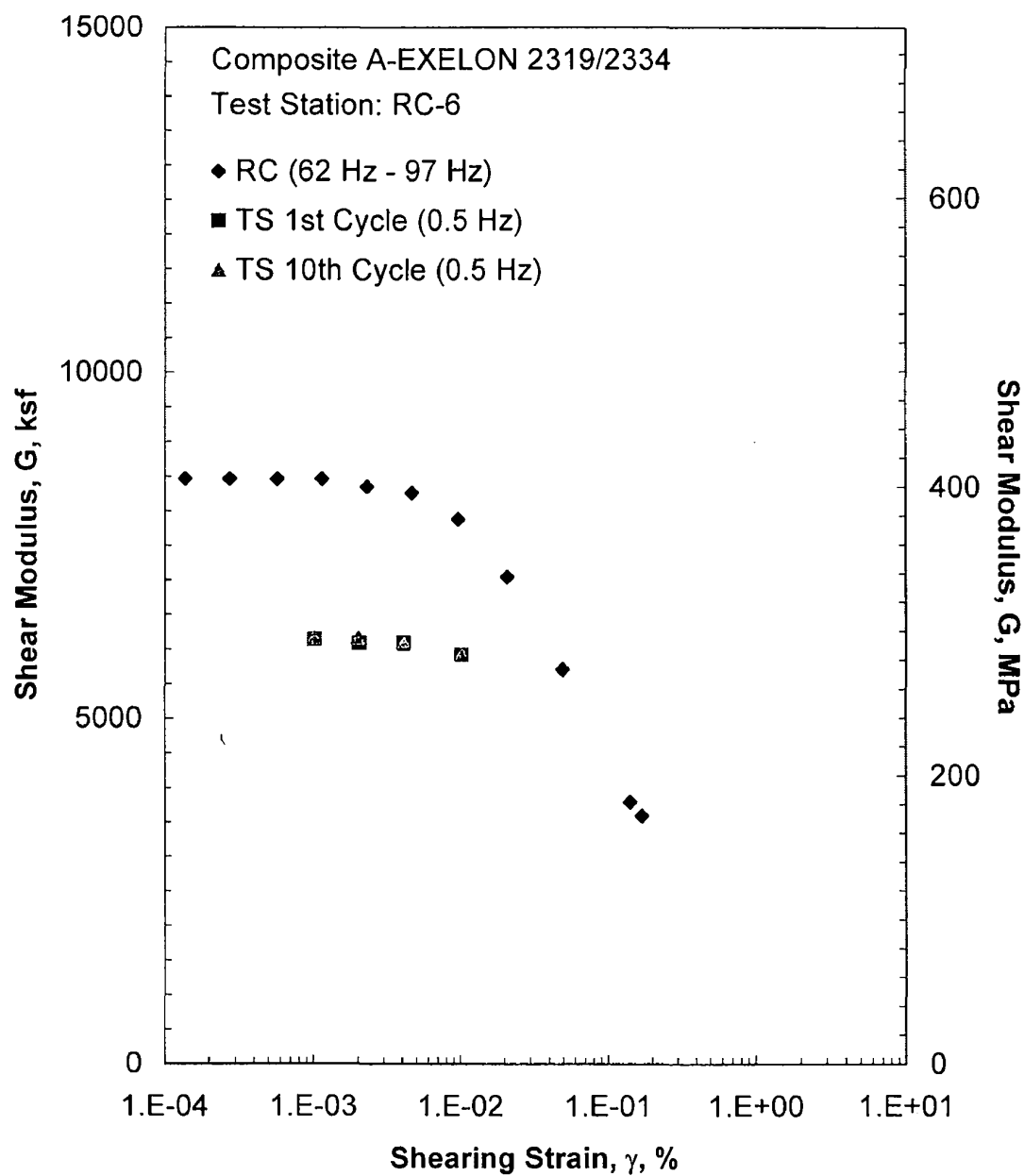


Figure Q.16 Comparison of the Variation in Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 75 psi from the Combined RCTS Tests

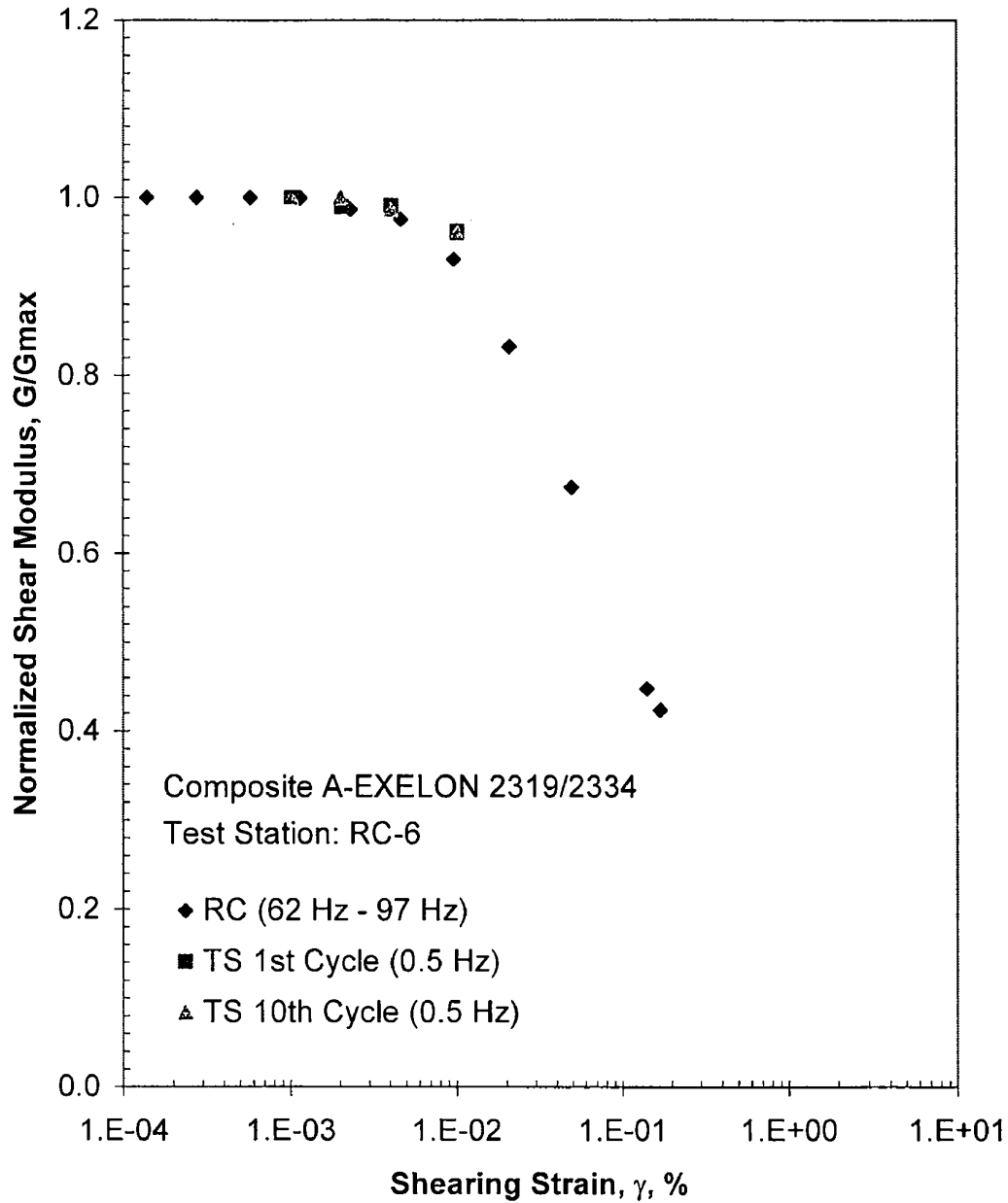


Figure Q.17 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 75 psi from the Combined RCTS Tests

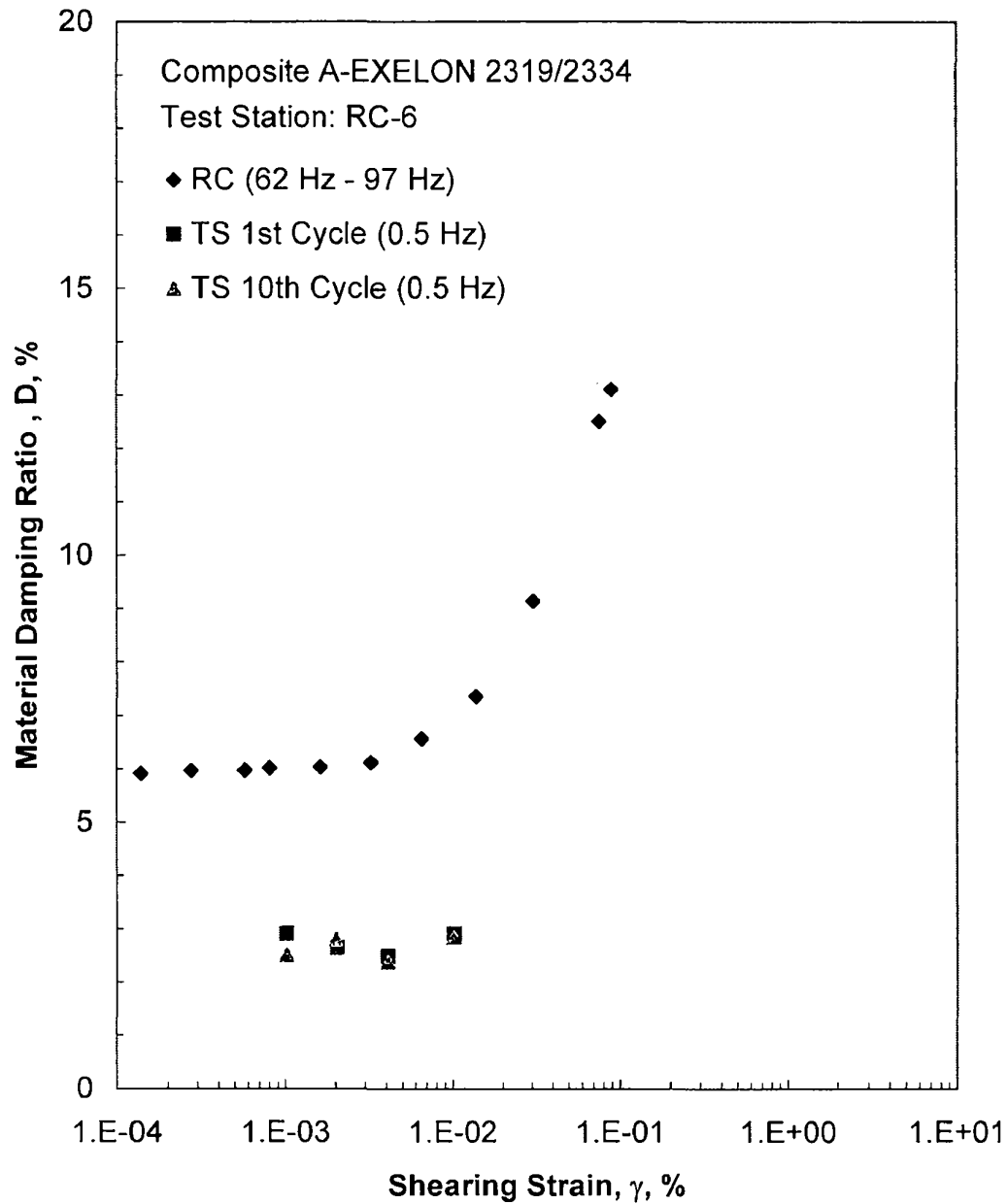


Figure Q.18 Comparison of the Variation in Material Damping Ratio with Shearing Strain at an Isotropic Confining Pressure of 75 psi from the Combined RCTS Tests

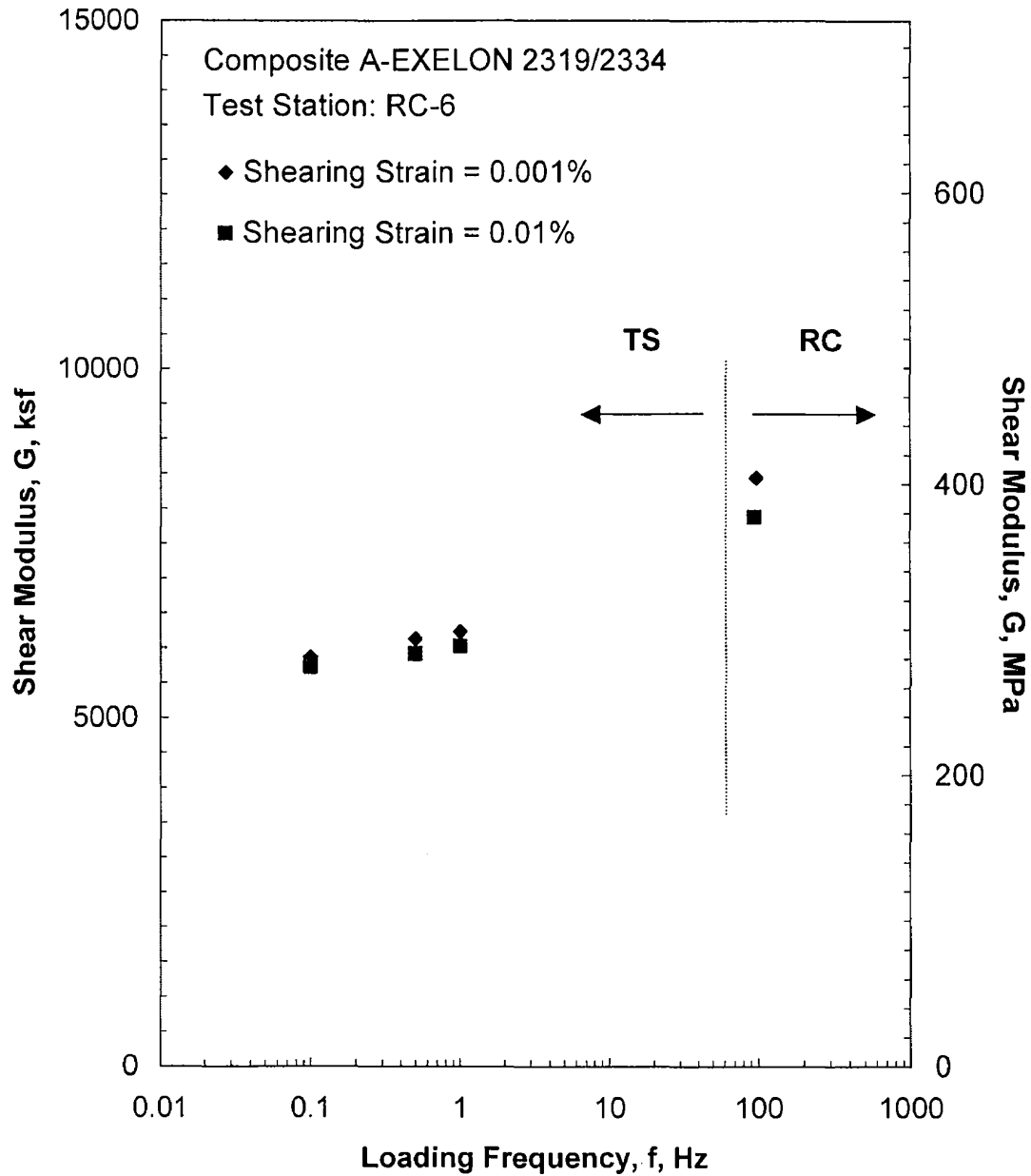


Figure Q.19 Comparison of the Variation in Shear Modulus with Loading Frequency at an Isotropic Confining Pressure of 75 psi from the Combined RCTS Tests

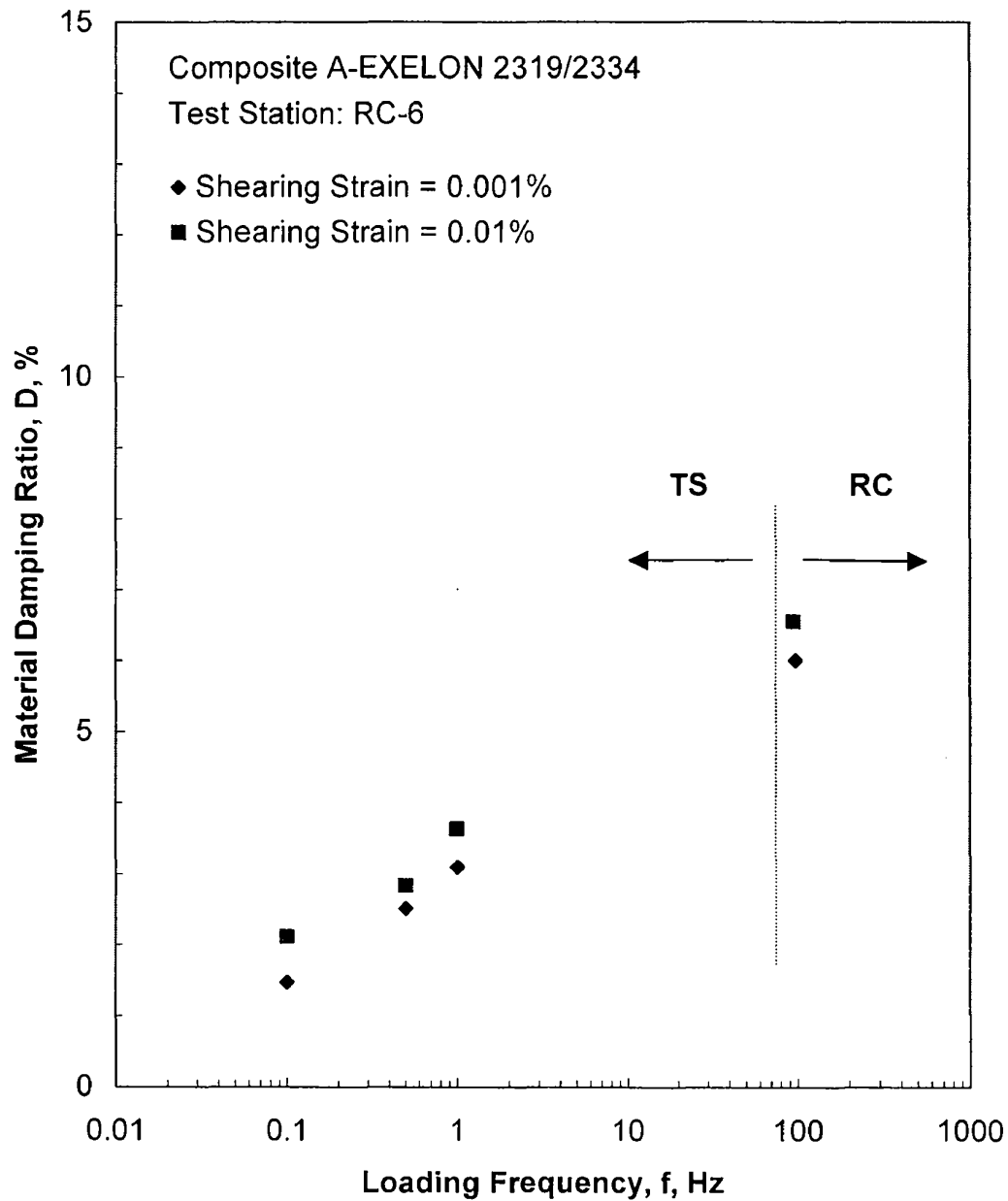


Figure Q.20 Comparison of the Variation in Material Damping Ratio with Loading Frequency at an Isotropic Confining Pressure of 75 psi from the Combined RCTS Tests

Table Q.1 Variation in Low-Amplitude Shear Wave Velocity, Low-Amplitude Shear Modulus, Low-Amplitude Material Damping Ratio and Estimated Void Ratio with Isotropic Confining Pressure from RC Tests of Specimen Composite A - EXELON 2319/2334

Isotropic Confining Pressure, σ_o			Low-Amplitude Shear Modulus, G_{max}		Low-Amplitude Shear Wave Velocity, V_s	Low-Amplitude Material Damping Ratio, D_{min}	Estimated Void Ratio, e
(psi)	(psf)	(kPa)	(ksf)	(MPa)	(fps)	(%)	
5	720	34	2267	109	731	8.26	0.41
9	1296	62	2627	126	785	7.75	0.40
19	2736	131	4017	193	964	6.82	0.39
38	5472	262	6203	298	1189	6.37	0.37
75	10800	517	7339	352	1287	6.26	0.35

Table Q.2 Variation in Shear Modulus and Material Damping Ratio with Shearing Strain from RC Tests of Specimen Composite A - EXELON 2319/2334; Isotropic Confining Pressure, $\sigma_o=19$ psi (2.7 ksf = 131 kPa)

Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Average ⁺ Shearing Strain, %	Material Damping Ratio [*] , D, %
2.32E-04	5689	1.00	2.32E-04	6.44
4.64E-04	5689	1.00	4.64E-04	6.44
9.63E-04	5689	1.00	9.63E-04	6.52
1.94E-03	5654	0.99	1.32E-03	6.52
3.91E-03	5583	0.98	2.62E-03	6.64
8.01E-03	5407	0.95	5.29E-03	6.88
1.71E-02	4965	0.87	1.11E-02	7.48
3.93E-02	4170	0.73	2.40E-02	9.16

⁺ Average Shearing Strain from the First Three Cycles of the Free Vibration Decay Curve

^{*} Average Damping Ratio from the First Three Cycles of the Free Vibration Decay Curve

Table Q.3 Variation in Shear Modulus, Normalized Shear Modulus and Material Damping Ratio with Shearing Strain from TS Tests of Specimen Composite A - EXELON 2319/2334; Isotropic Confining Pressure, $\sigma_o = 19$ psi (2.7 ksf = 131 kPa)

First Cycle				Tenth Cycle			
Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %	Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %
9.91E-04	4028	1.00	2.69	1.02E-03	3960	0.99	2.98
1.98E-03	4032	1.00	2.58	1.99E-03	3960	0.99	2.59
4.02E-03	3971	0.98	2.56	4.01E-03	3981	1.00	2.76
1.00E-02	3802	0.94	3.17	1.00E-02	3806	0.96	3.10

Table Q.4 Variation in Shear Modulus and Material Damping Ratio with Shearing Strain from RC Tests of Specimen Composite A - EXELON 2319/2334; Isotropic Confining Pressure, $\sigma_o = 75$ psi (10.8 ksf = 517 kPa)

Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Average* Shearing Strain, %	Material Damping Ratio*, D, %
1.38E-04	8463	1.00	1.38E-04	5.91
2.75E-04	8463	1.00	2.75E-04	5.96
5.73E-04	8463	1.00	5.73E-04	5.97
1.15E-03	8463	1.00	8.02E-04	6.01
2.31E-03	8351	0.99	1.62E-03	6.03
4.66E-03	8257	0.98	3.26E-03	6.11
9.62E-03	7876	0.93	6.54E-03	6.56
2.08E-02	7044	0.83	1.37E-02	7.35
4.90E-02	5707	0.67	3.04E-02	9.13
1.40E-01	3788	0.45	7.58E-02	12.50
1.69E-01	3586	0.42	8.97E-02	13.10

* Average Shearing Strain from the First Three Cycles of the Free Vibration Decay Curve

* Average Damping Ratio from the First Three Cycles of the Free Vibration Decay Curve

Table Q.5 Variation in Shear Modulus, Normalized Shear Modulus and Material Damping Ratio with Shearing Strain from TS Tests of Specimen Composite A - EXELON
2319/2334; Isotropic Confining Pressure, $\sigma_o=75$ psi (10.8 ksf = 517 kPa)

First Cycle				Tenth Cycle			
Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %	Peak Shearing Strain, %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %
1.01E-03	6147	1.00	2.90	1.01E-03	6164	1.00	2.51
2.05E-03	6084	0.99	2.64	2.01E-03	6164	1.00	2.79
4.09E-03	6092	0.99	2.48	4.09E-03	6081	0.99	2.37
1.01E-02	5916	0.96	2.90	1.01E-02	5919	0.96	2.83

**FINAL DATA REPORT Rev 0
GEOTECHNICAL EXPLORATION AND TESTING**

**EXELON TEXAS COL PROJECT
VICTORIA COUNTY, TEXAS
COOLING BASIN REPORT**

July 18, 2008

**VOLUME 4
Appendix G – Groundwater Data**

Prepared By:

**MACTEC Engineering and Consulting, Inc.
Raleigh, North Carolina**

MACTEC Project No. 6468-07-1777

Prepared For:

**Bechtel Power Corporation
Subcontract No. 25352-102-HC4-CY00-00001**

Contents

**Observation Well Records
Well Record Sampling Sheets
Laboratory Test Reports
Slug Test Data Forms
Aquifer Pump Test Data Forms
Borehole Permeameter Data Forms**

Observation Well Records

Observation Well Data Sheet

Prepared by: INS Date: 4-3-08
Checked by: WBD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/12/07
Observation Well Northing: 13404252.09 US ft Easting: 2606686.52 US ft
Observation Well Location: Cooling Pond Area

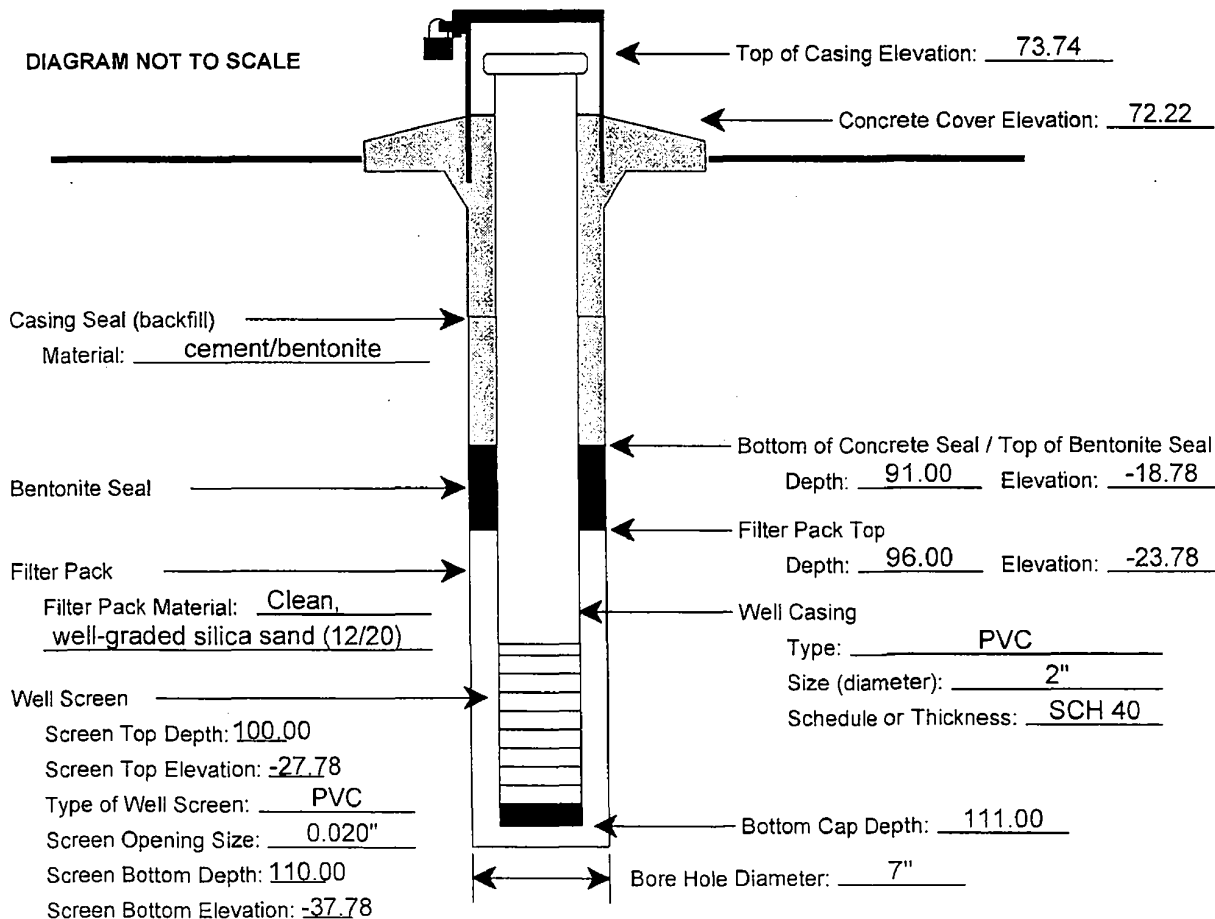
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-011
Date of Well Development: 10/12/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Three, stainless-steel centralizers installed at 25 ft, 65 ft, and 99 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/19/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 30.83
Name of Geologic Formation(s) in which Well is completed: see boring log B-01

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJ Date: 4-3-08
Checked by: WJ Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/12/07
Observation Well Northing: 13404253.64 US ft Easting: 2606666.85 US ft
Observation Well Location: Cooling Pond Area

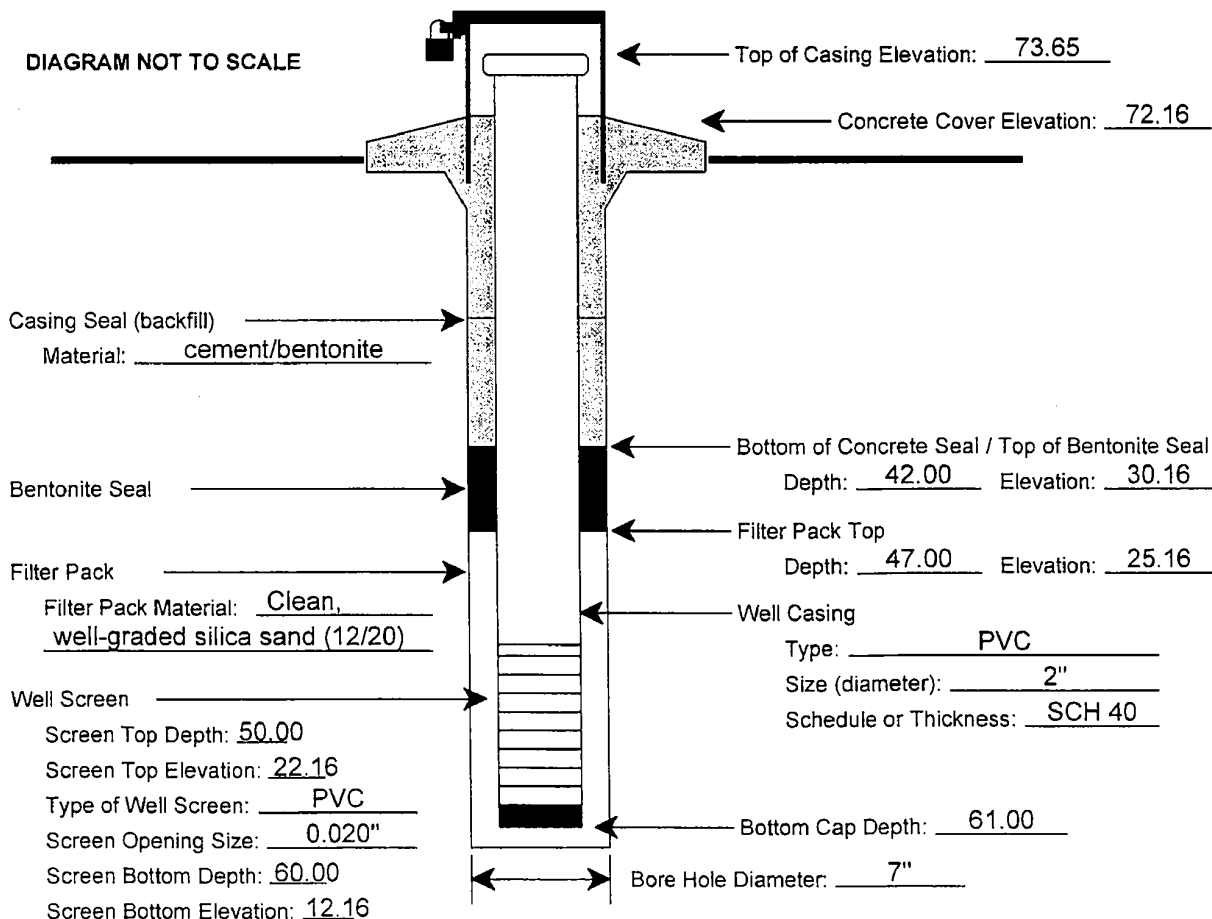
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-01U
Date of Well Development: 10/12/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

One, stainless-steel centralizer installed at 49 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/19/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 31.50
Name of Geologic Formation(s) in which Well is completed: see boring log B-01

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WBL Date: 4-3-08
Checked by: WBL Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/11/07
Observation Well Northing: 13411520.51 US ft Easting: 2607869.30 US ft
Observation Well Location: Cooling Pond Area

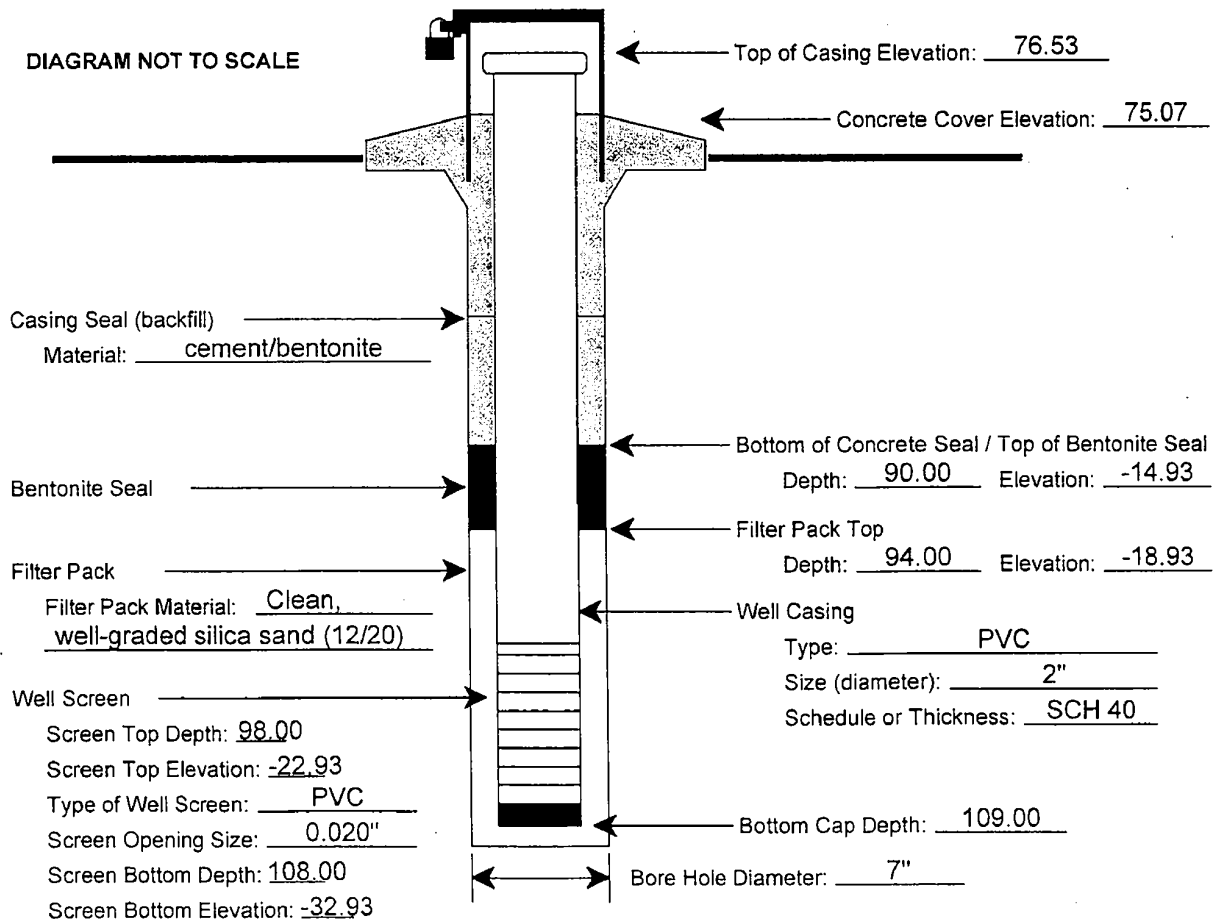
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-021
Date of Well Development: 10/11/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 45 ft and 97 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/19/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 25.18
Name of Geologic Formation(s) in which Well is completed: see boring log B-02

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WV Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)

County: Victoria

Date of Observation Well Installation: 10/11/07

Observation Well Northing: 13411502.39 US ft Easting: 2607862.19 US ft

Observation Well Location: Cooling Pond Area

MACTEC Project No.: 6468-07-1777

Observation Well I.D.: OW-02U

Date of Well Development: 10/11/07

Observation Well Driller

Name: BEST Drilling

License No.: 5036

NOTES:

One, stainless-steel centralizer installed at 52 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using air-lifting techniques by the well installation contractor.

Static water level measurement collected 1/19/2008.

Observation well installed in accordance with ASTM D 5092-04e1.

Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

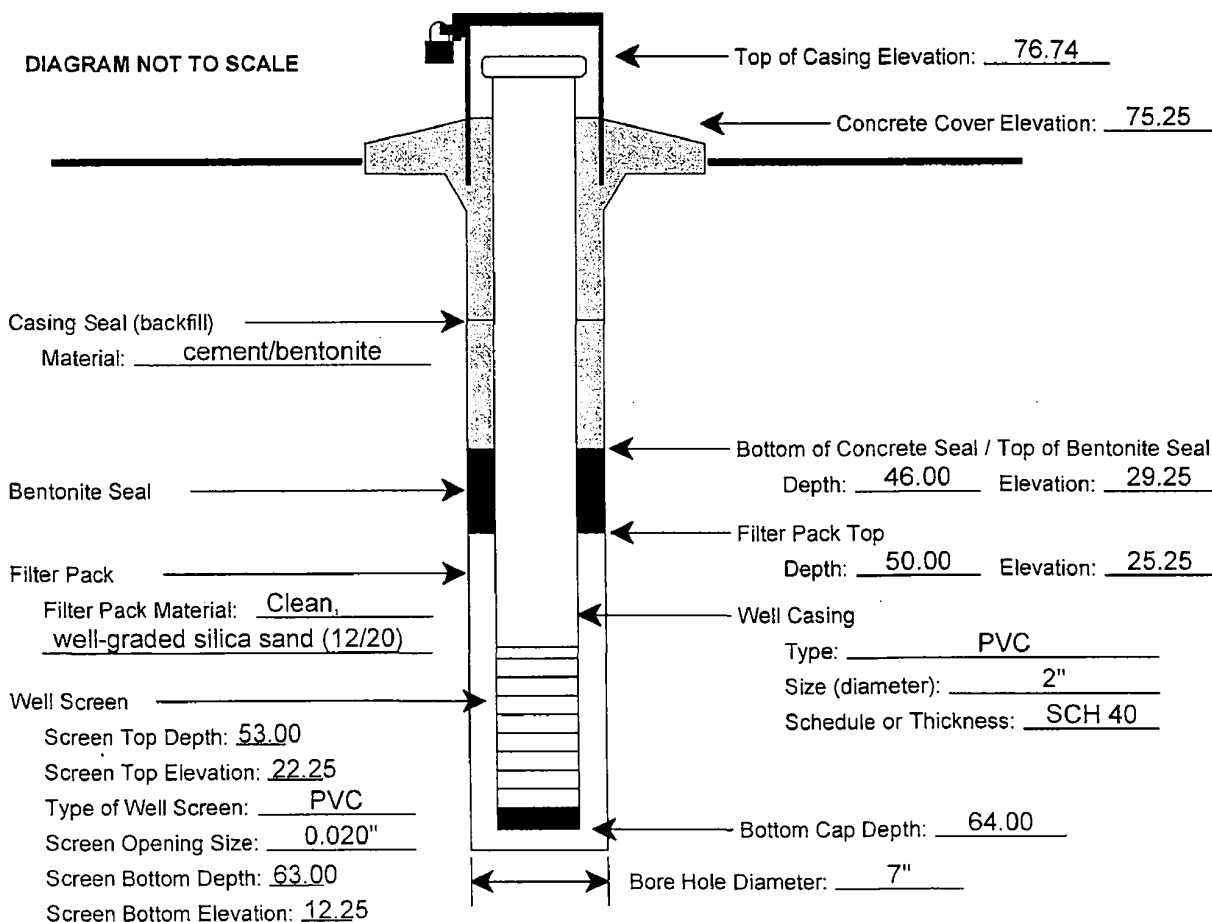
Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff

Static Water Level Elevation (with respect to NAVD88) after Well Development: 25.34

Name of Geologic Formation(s) in which Well is completed: see boring log B-02

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)

MACTEC Project No.: 6468-07-1777

County: Victoria

Observation Well I.D.: OW-031

Date of Observation Well Installation: 10/10/07

Date of Well Development: 10/10/07

Observation Well Northing: 13414918.69 US ft Easting: 2609286.61 US ft

Observation Well Location: Cooling Pond Area

Observation Well Driller

Name: BEST Drilling

License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 45 ft and 86 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using air-lifting techniques by the well installation contractor.

Static water level measurement collected 1/19/2008.

Observation well installed in accordance with ASTM D 5092-04e1.

Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

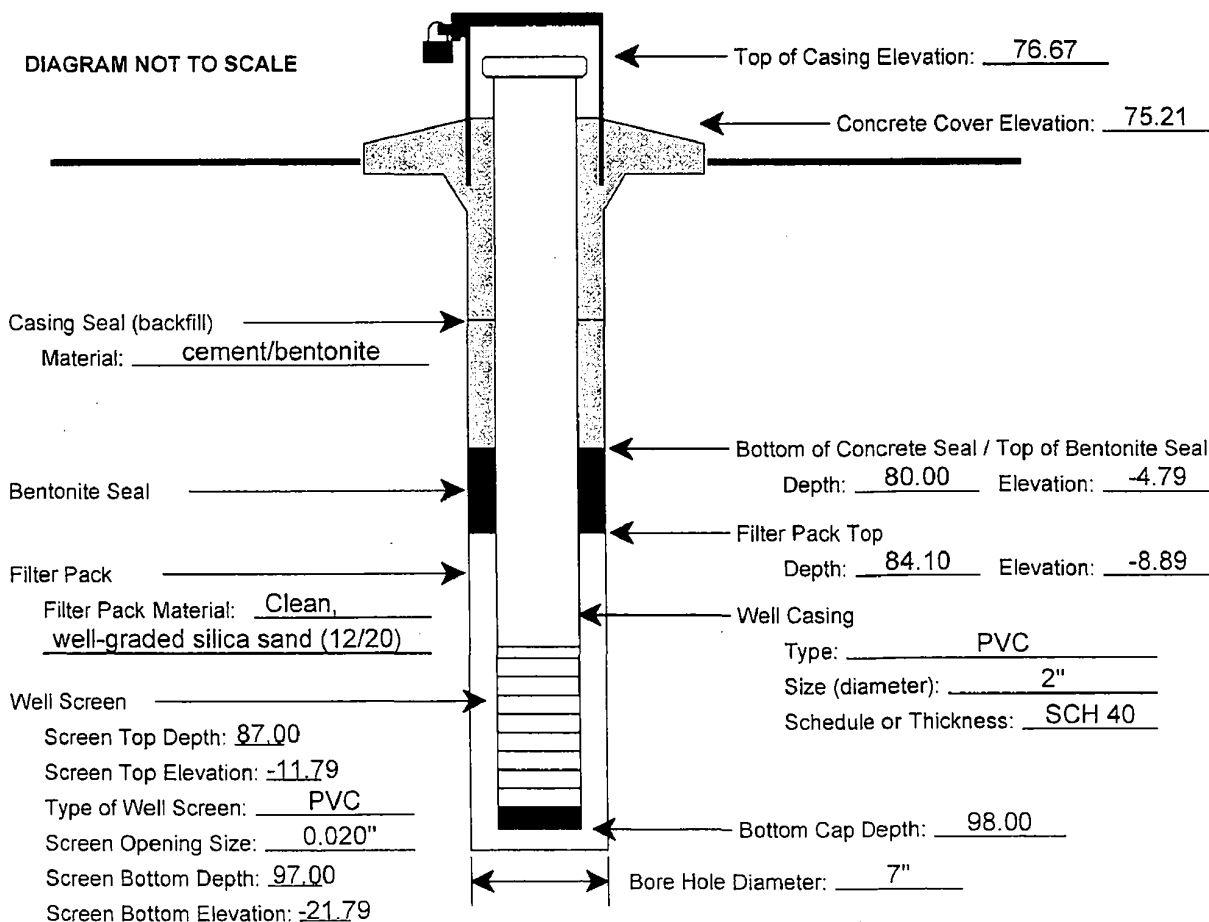
Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff

Static Water Level Elevation (with respect to NAVD88) after Well Development: 20.47

Name of Geologic Formation(s) in which Well is completed: see boring log B-03

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WBD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/10/07
Observation Well Northing: 13414934.48 US ft Easting: 2609294.86 US ft
Observation Well Location: Cooling Pond Area

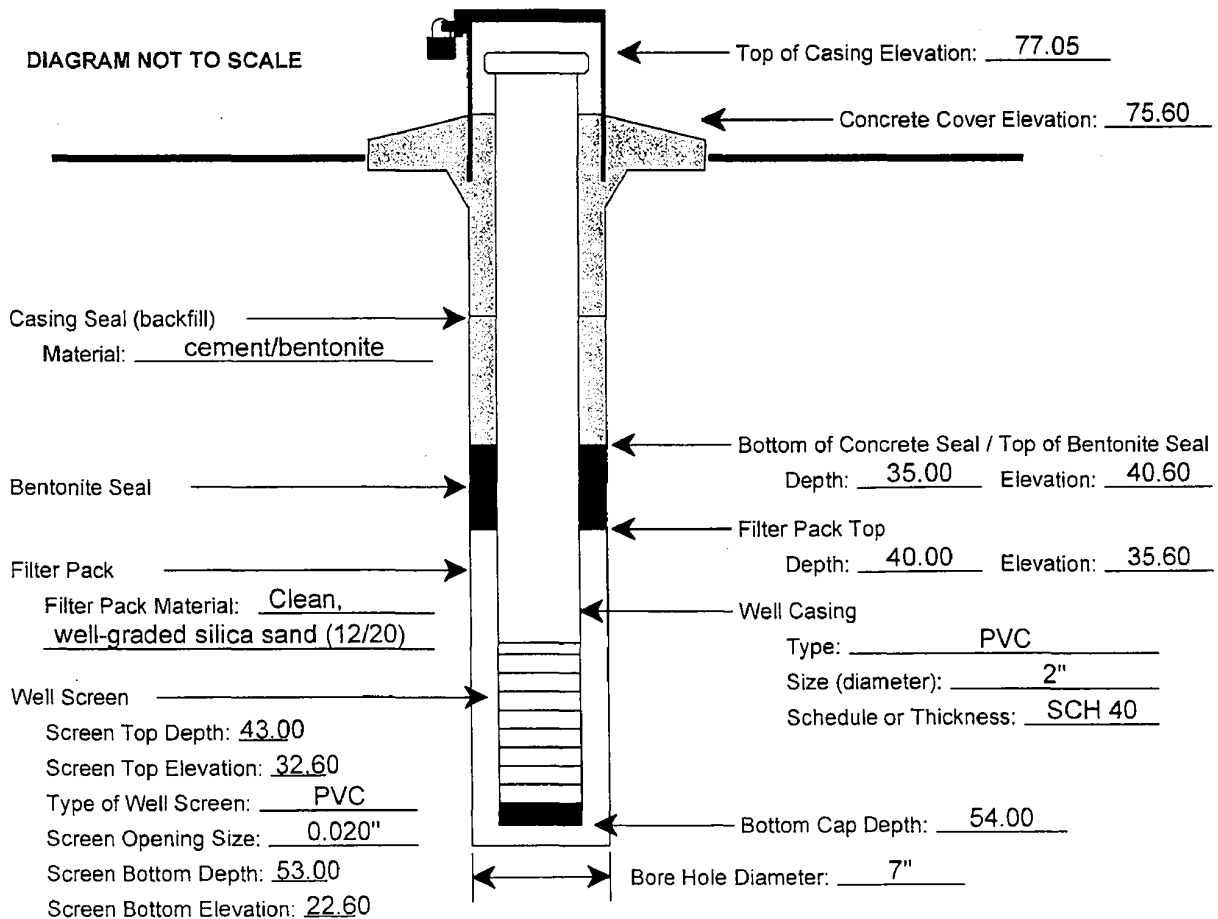
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-03U
Date of Well Development: 10/10/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

One, stainless-steel centralizer installed at 42 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/19/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: Well is dry
Name of Geologic Formation(s) in which Well is completed: see boring log B-03

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSB Date: 2-3-08
Checked by: WBD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)

MACTEC Project No.: 6468-07-1777

County: Victoria

Observation Well I.D.: OW-041

Date of Observation Well Installation: 10/9/07

Date of Well Development: 10/9/07

Observation Well Northing: 13414268.74 US ft Easting: 2607440.23 US ft

Observation Well Location: Cooling Pond Area

Observation Well Driller

Name: BEST Drilling

License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 55 ft and 109 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using air-lifting techniques by the well installation contractor.

Static water level measurement collected 1/20/2008.

Observation well installed in accordance with ASTM D 5092-04e1.

Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

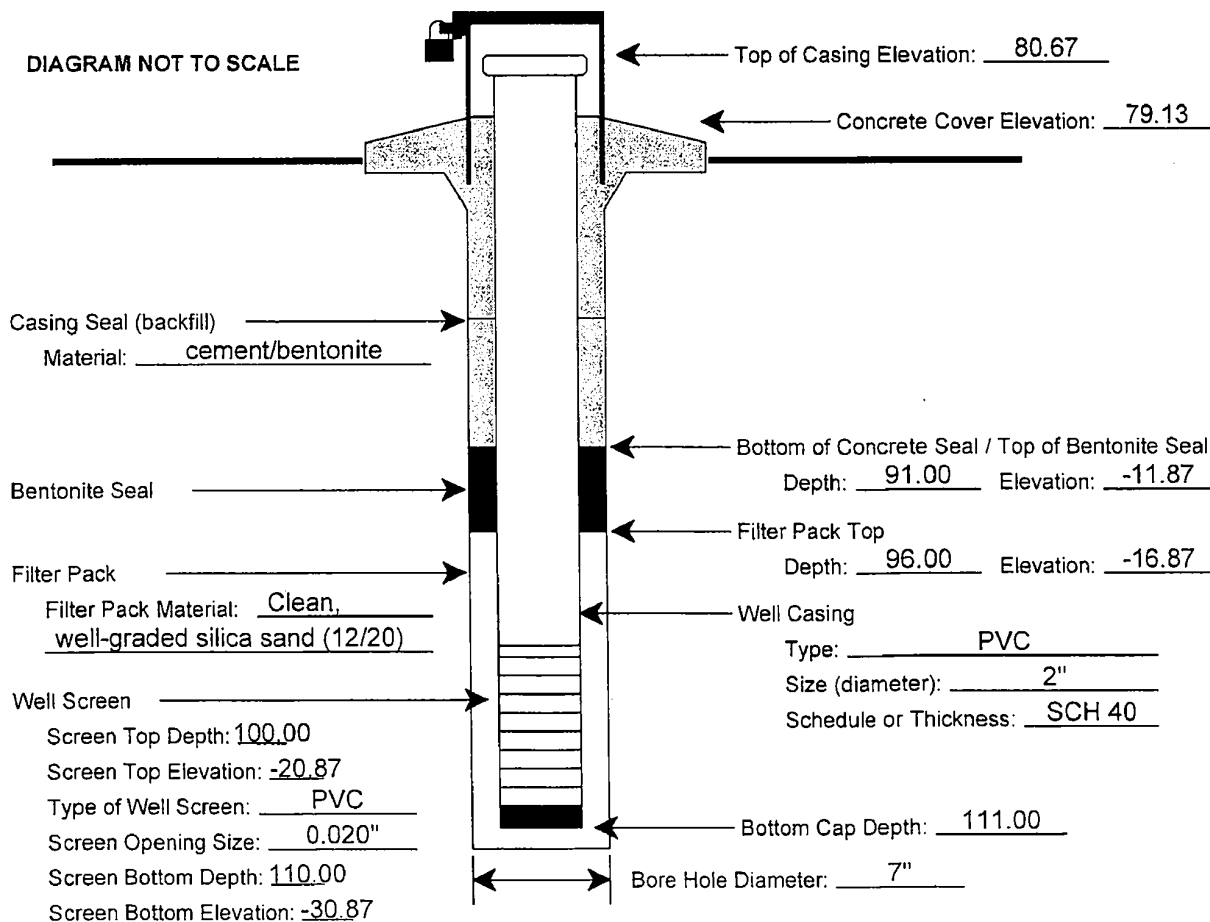
Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff

Static Water Level Elevation (with respect to NAVD88) after Well Development: 23.79

Name of Geologic Formation(s) in which Well is completed: see boring log B-04

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSC Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/11/07
Observation Well Northing: 13414280.51 US ft Easting: 2607428.57 US ft
Observation Well Location: Cooling Pond Area

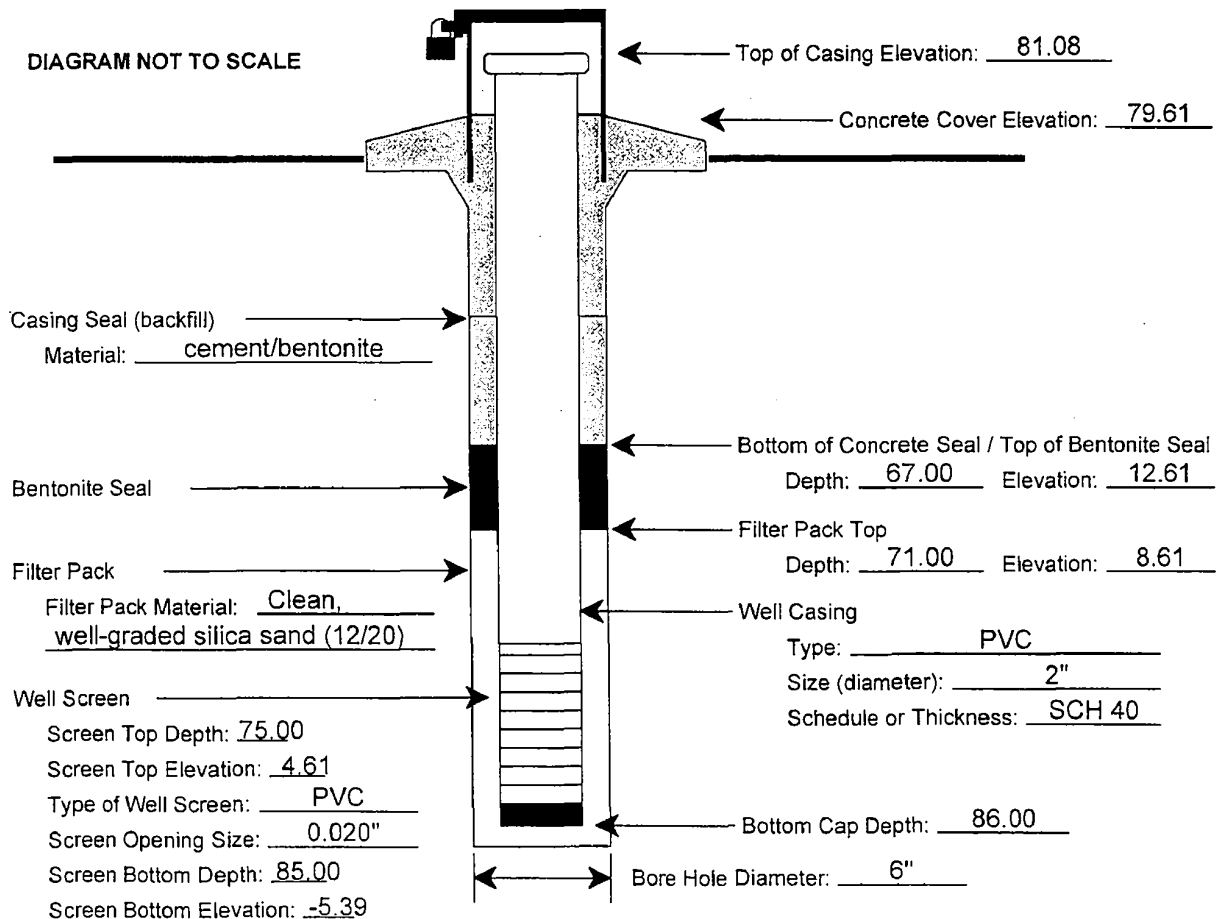
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-04U
Date of Well Development: 10/11/07
Observation Well Driller
Name: Lewis Env
License No.: 54672M

NOTES:

One, stainless-steel centralizer installed at 74 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 24.75
Name of Geologic Formation(s) in which Well is completed: see boring log B-04

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJD Date: 4-3-08
Checked by: WJD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/4/07
Observation Well Northing: 13414774.22 US ft Easting: 2605813.28 US ft
Observation Well Location: Cooling Pond Area

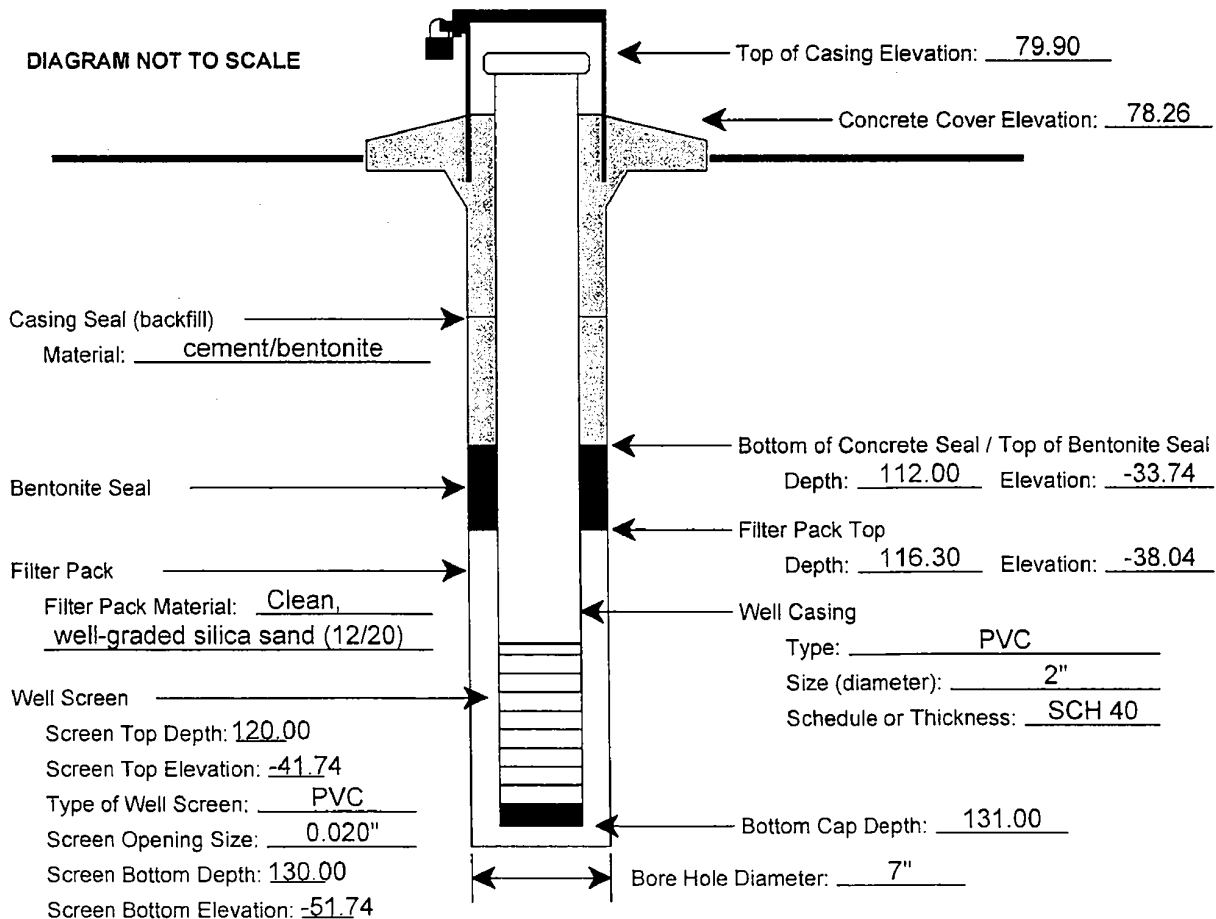
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-051
Date of Well Development: 10/4/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Three, stainless-steel centralizers installed at 45 ft, 85 ft, and 119 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 26.65
Name of Geologic Formation(s) in which Well is completed: see boring log B-05

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: WSE Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/10/07
Observation Well Northing: 13414770.21 US ft Easting: 2605832.08 US ft
Observation Well Location: Cooling Pond Area

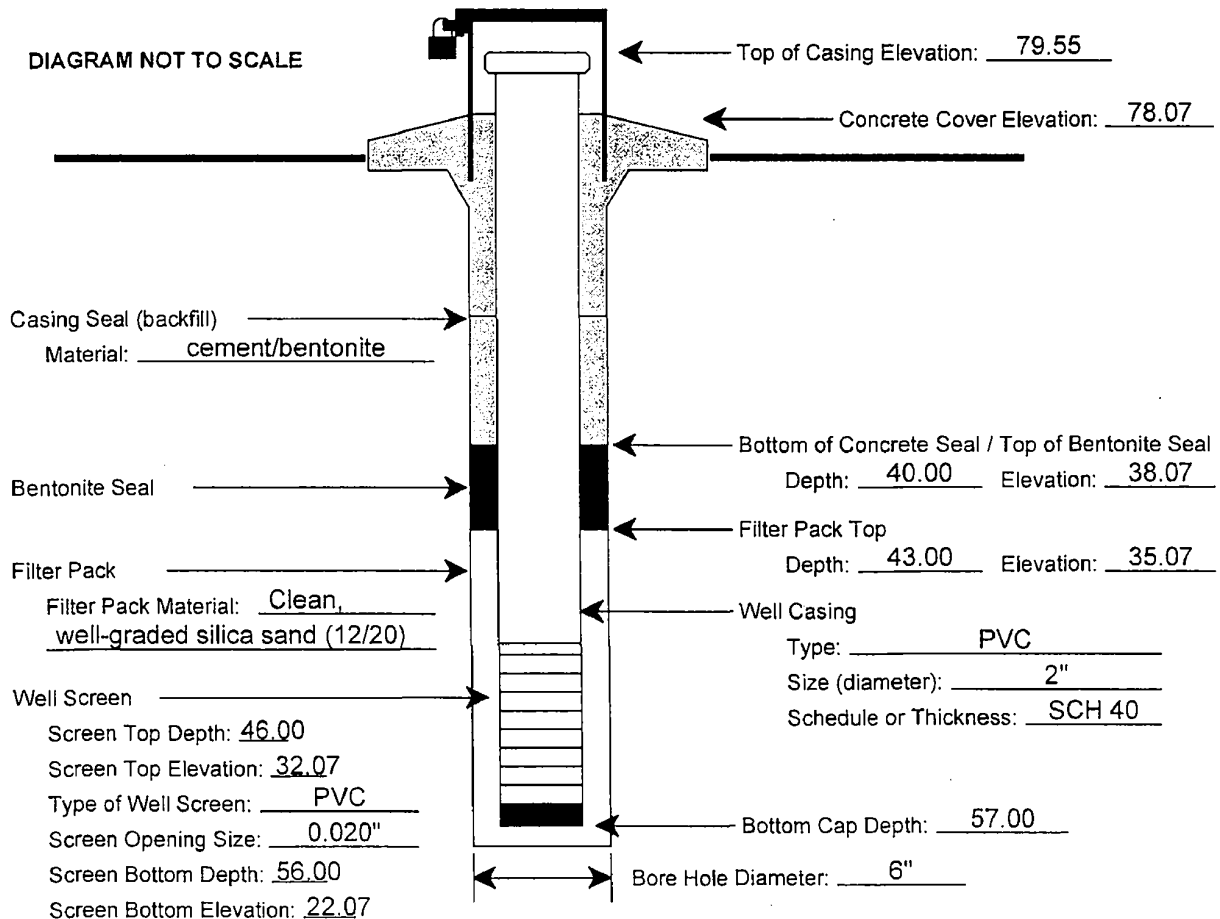
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-05U
Date of Well Development: 10/10/07
Observation Well Driller
Name: Lewis Env
License No.: 54672M

NOTES:

One, stainless-steel centralizer installed at 45 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 29.01
Name of Geologic Formation(s) in which Well is completed: see boring log B-05

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: WSE Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/2/07
Observation Well Northing: 13415889.64 US ft Easting: 2604964.90 US ft
Observation Well Location: Cooling Pond Area

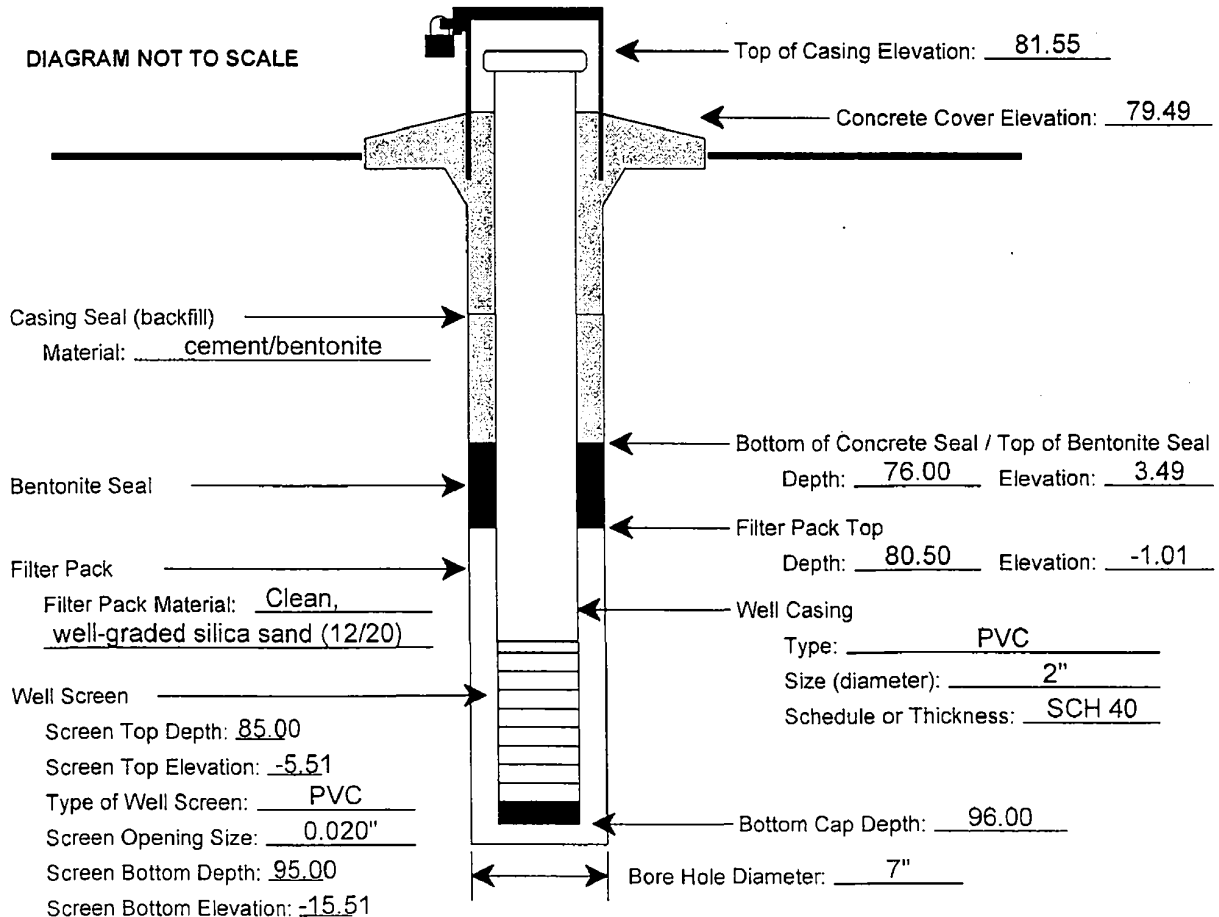
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-061
Date of Well Development: 10/2/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 45 ft and 84 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 27.17
Name of Geologic Formation(s) in which Well is completed: see boring log B-06

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: W50 Date: 4-3-08
Checked by: W50 Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/13/07
Observation Well Northing: 13415875.58 US ft Easting: 2604966.94 US ft
Observation Well Location: Cooling Pond Area

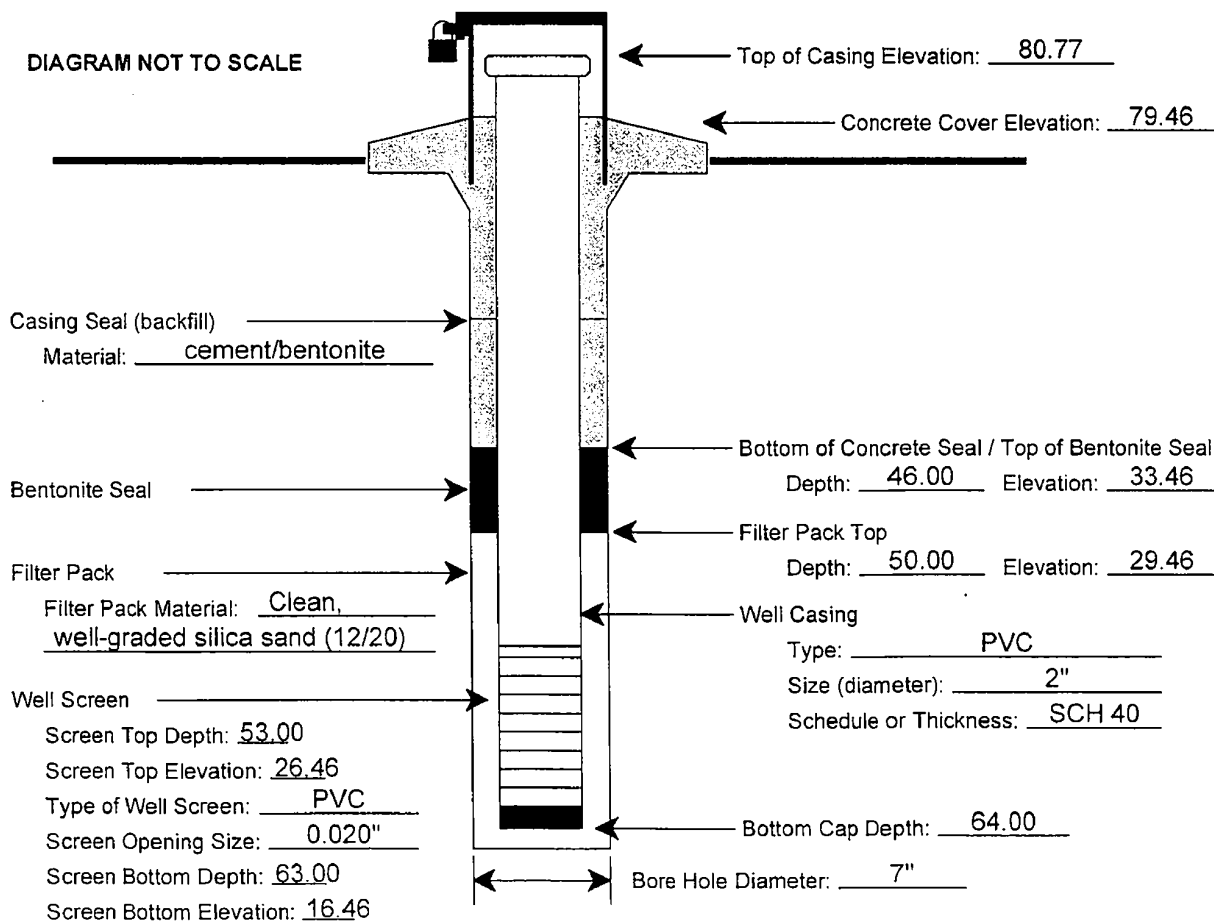
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-06U
Date of Well Development: 10/13/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

One, stainless-steel centralizer installed at 52 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 27.34
Name of Geologic Formation(s) in which Well is completed: see boring log B-06

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJD Date: 4-3-08
Checked by: WJD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/3/07
Observation Well Northing: 13418420.52 US ft Easting: 2606531.28 US ft
Observation Well Location: Northeast Sector

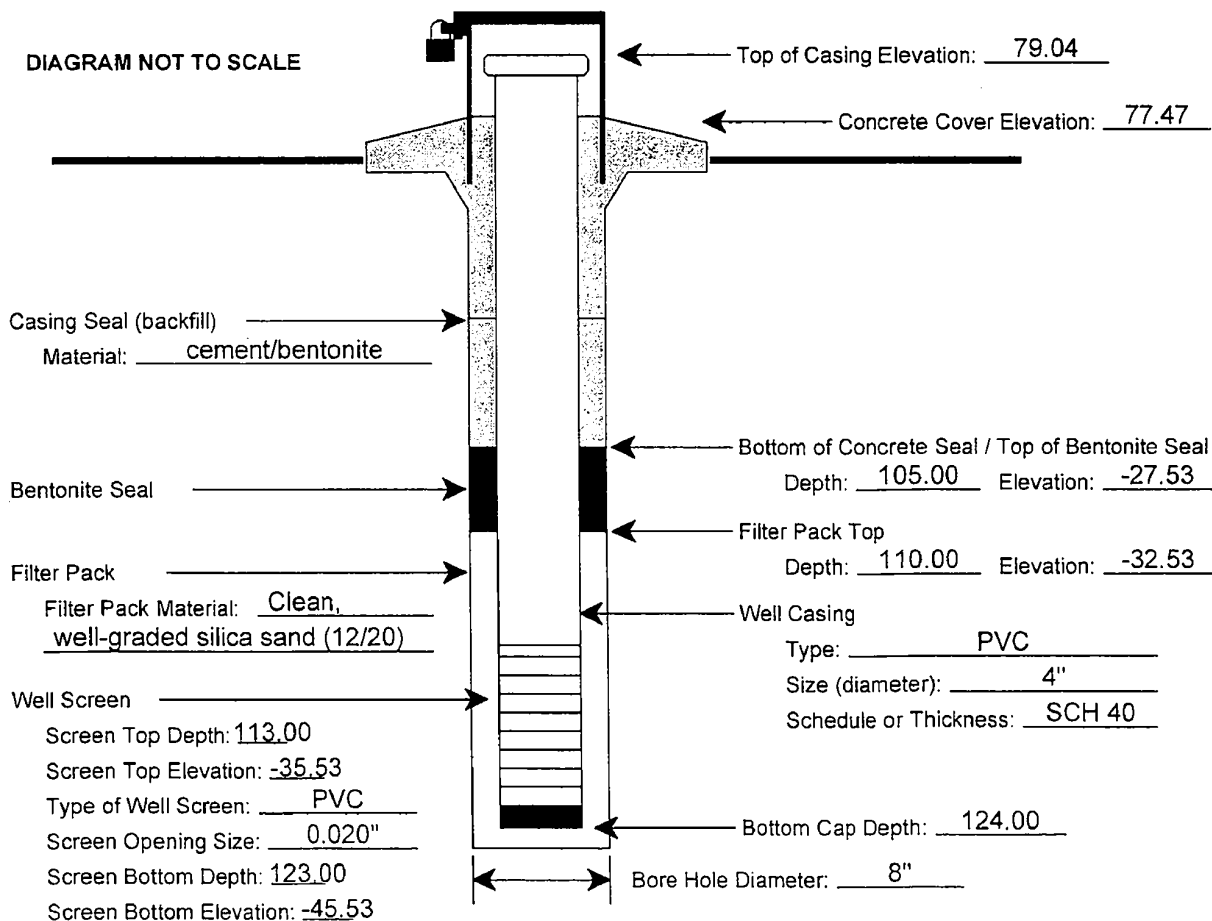
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-071
Date of Well Development: 10/3/07
Observation Well Driller
Name: Lewis Env
License No.: 54672M

NOTES:

Three, stainless-steel centralizers installed at 45 ft, 90 ft, and 112 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 20.84
Name of Geologic Formation(s) in which Well is completed: see boring log B-07

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WFO Date: 4-3-08
Checked by: WFO Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/9/07
Observation Well Northing: 13418421 40 US ft Easting: 2606542 01 US ft
Observation Well Location: Northeast Sector

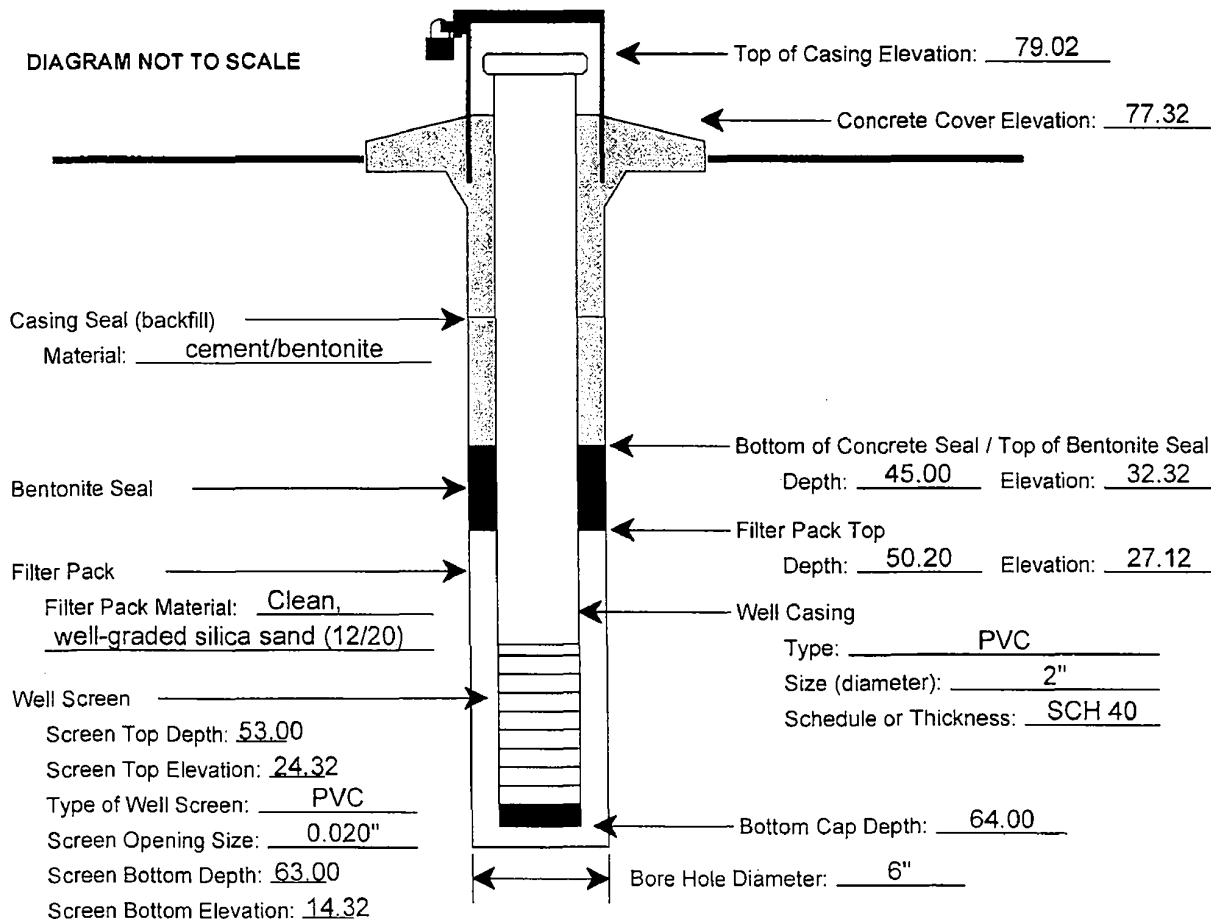
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-07U
Date of Well Development: 10/9/07
Observation Well Driller
Name: Lewis Env
License No.: 54672M

NOTES:

One, stainless-steel centralizer installed at 52 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 20.82
Name of Geologic Formation(s) in which Well is completed: see boring log B-07

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: lisa Date: 4-3-08
Checked by: WJD Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/14/07
Observation Well Northing: 13415818.85 US ft Easting: 2598942.49 US ft
Observation Well Location: Northern Sector

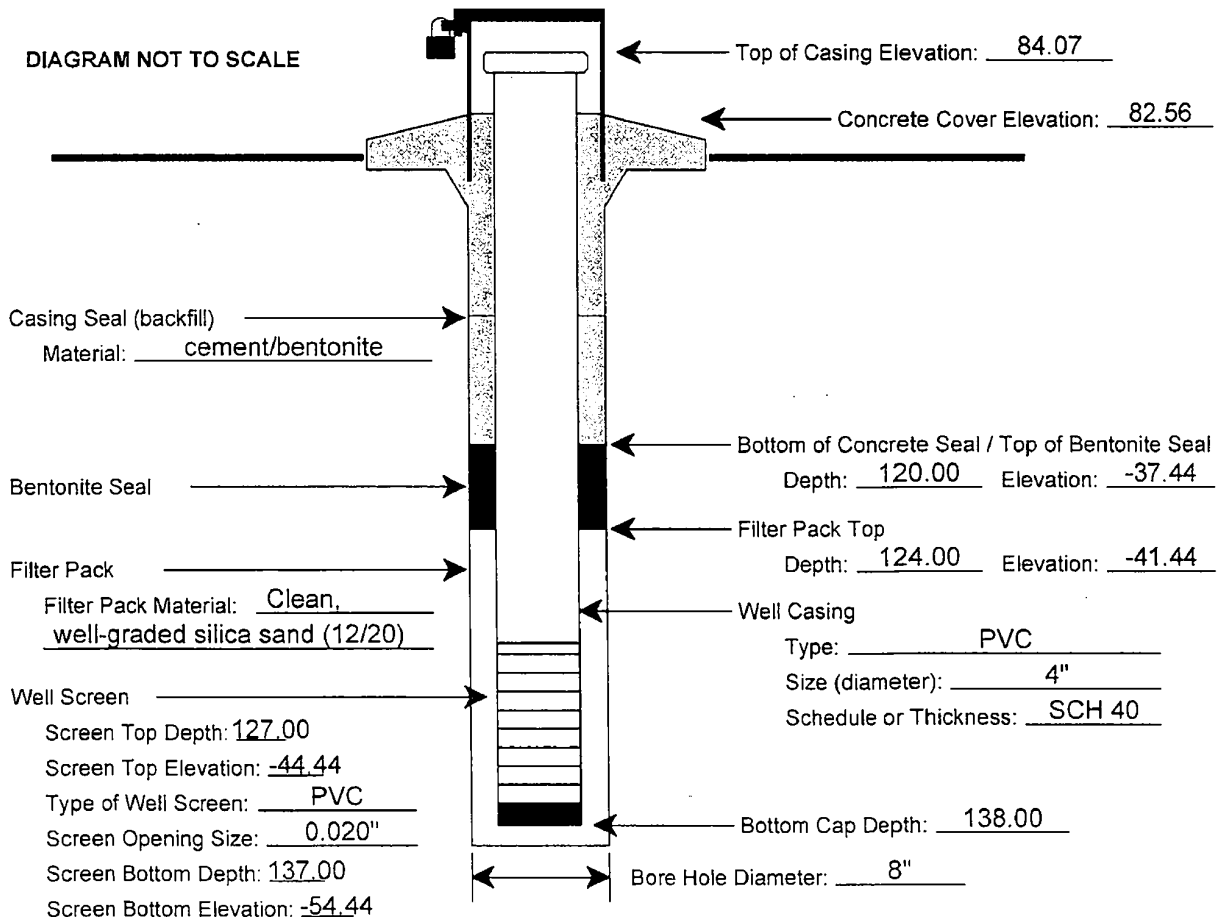
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-08L
Date of Well Development: 10/14/07
Observation Well Driller
Name: Lewis Env
License No.: 54672M

NOTES:

Three, stainless-steel centralizers installed at 45 ft, 95 ft, and 126 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/21/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 33.96
Name of Geologic Formation(s) in which Well is completed: see boring log B-08

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: W3D Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/14/07
Observation Well Northing: 13415801.21 US ft Easting: 2598934.58 US ft
Observation Well Location: Northern Sector

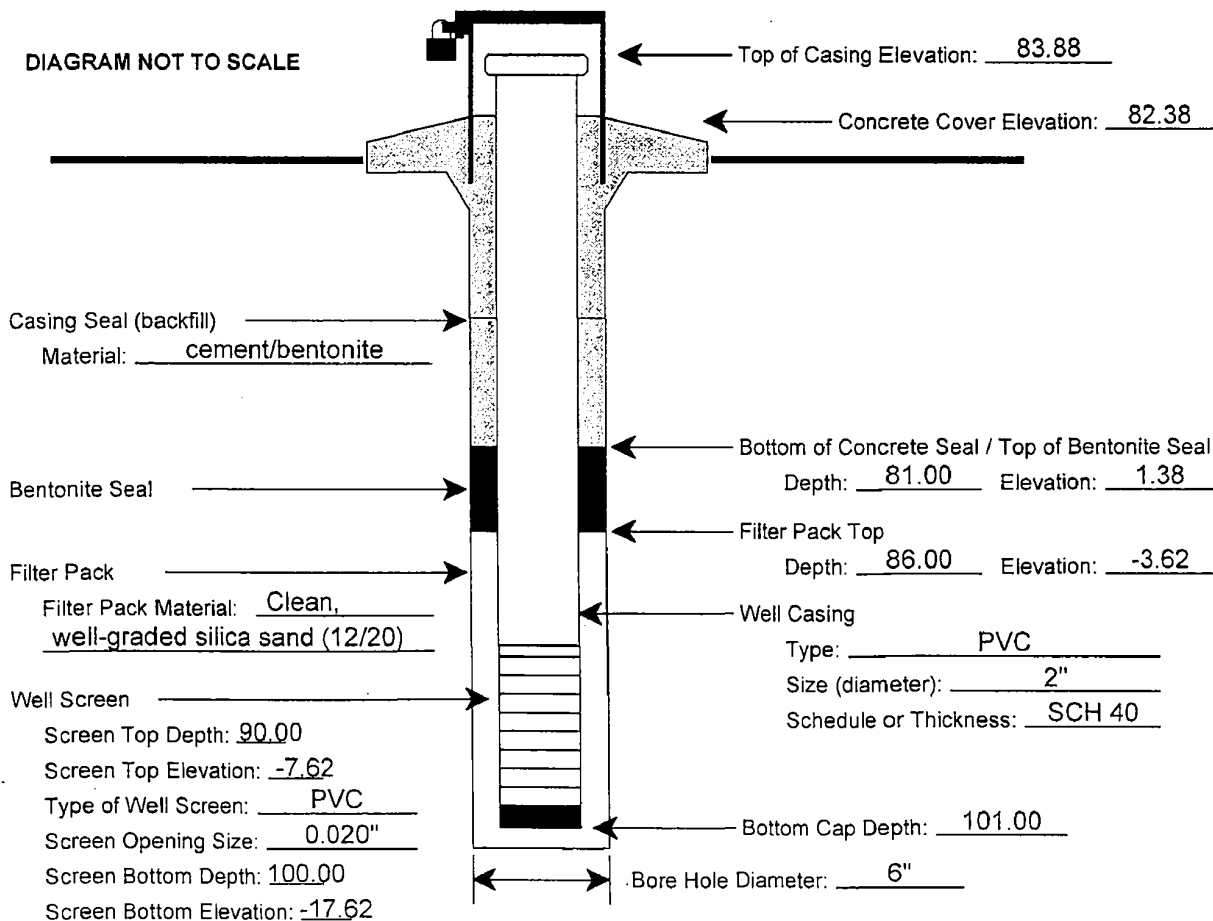
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-08U
Date of Well Development: 10/14/07
Observation Well Driller
Name: Lewis Env
License No.: 54672M

NOTES:

One, stainless-steel centralizer installed at 89 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/21/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 37.32
Name of Geologic Formation(s) in which Well is completed: see boring log B-08

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: CJS Date: 4-3-08
Checked by: WBD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/3/07
Observation Well Northing: 13414937.42 US ft Easting: 2604893.58 US ft
Observation Well Location: Cooling Pond Area

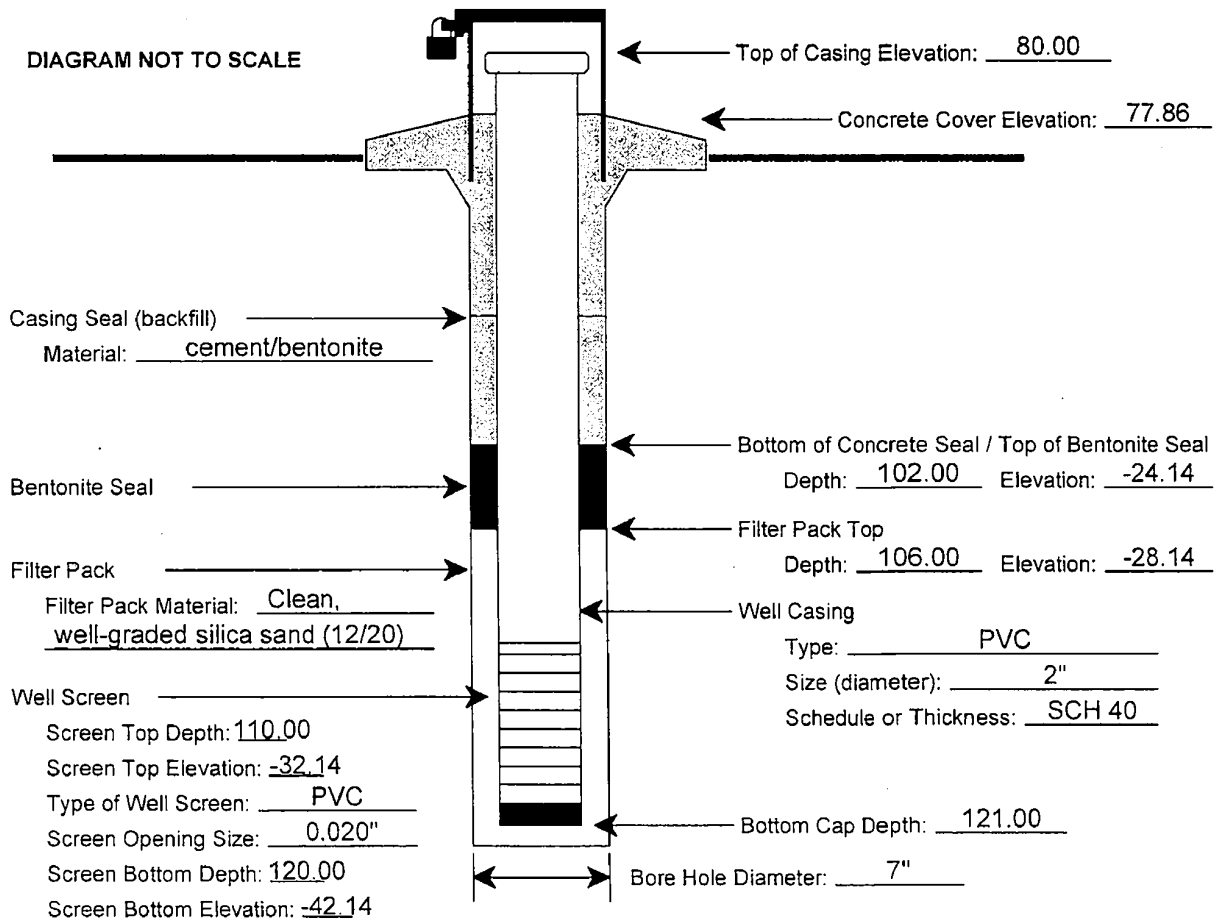
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-091
Date of Well Development: 10/3/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Three, stainless-steel centralizers installed at 35 ft, 75 ft, and 119 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 27.78
Name of Geologic Formation(s) in which Well is completed: see boring log B-09

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: W.S. Date: 4-3-08
Checked by: W.B.D. Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/13/07
Observation Well Northing: 13414956.05 US ft Easting: 2604894.51 US ft
Observation Well Location: Cooling Pond Area

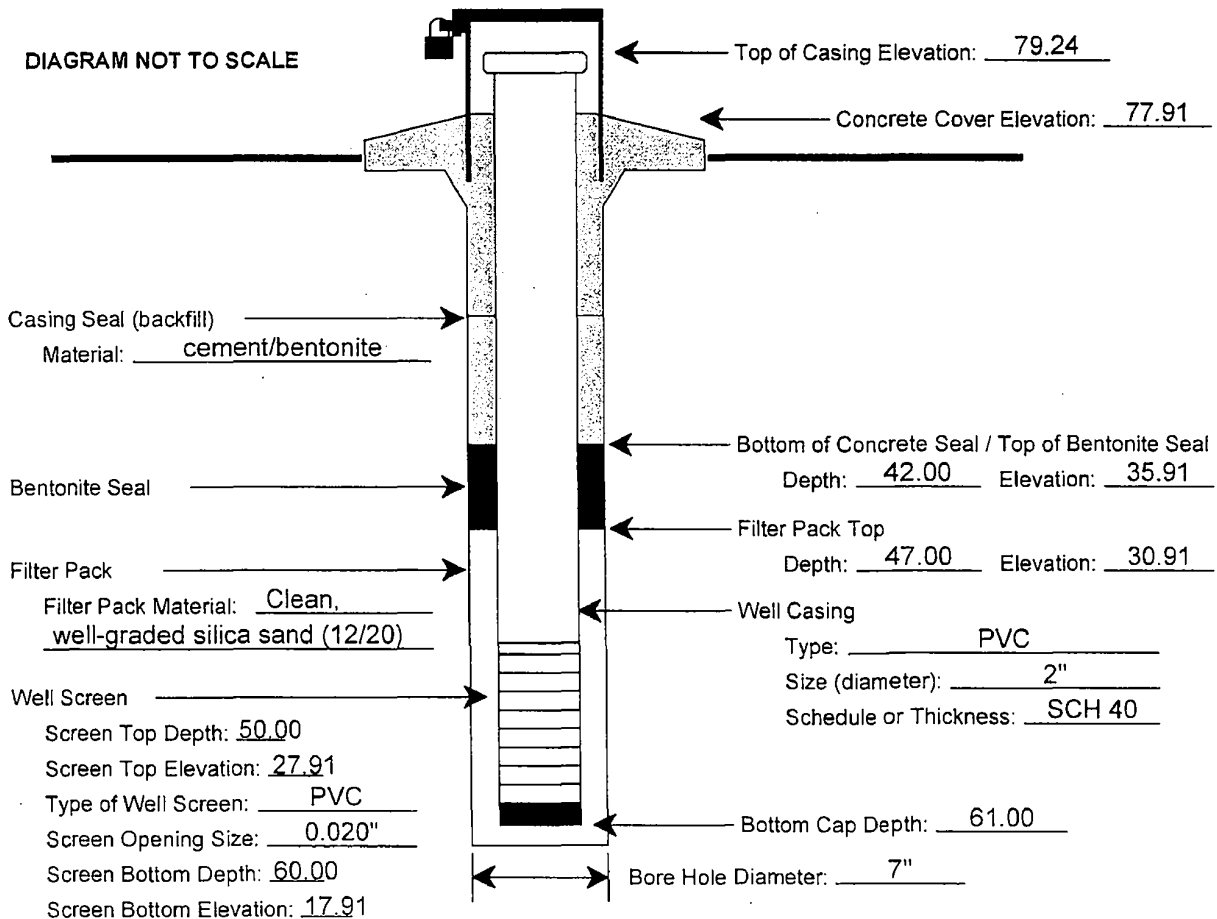
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-09U
Date of Well Development: 10/13/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

One, stainless-steel centralizer installed at 49 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 27.79
Name of Geologic Formation(s) in which Well is completed: see boring log B-09

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: W30 Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/1/07
Observation Well Northing: 13418486.44 US ft Easting: 2604760.99 US ft
Observation Well Location: Northeast Sector

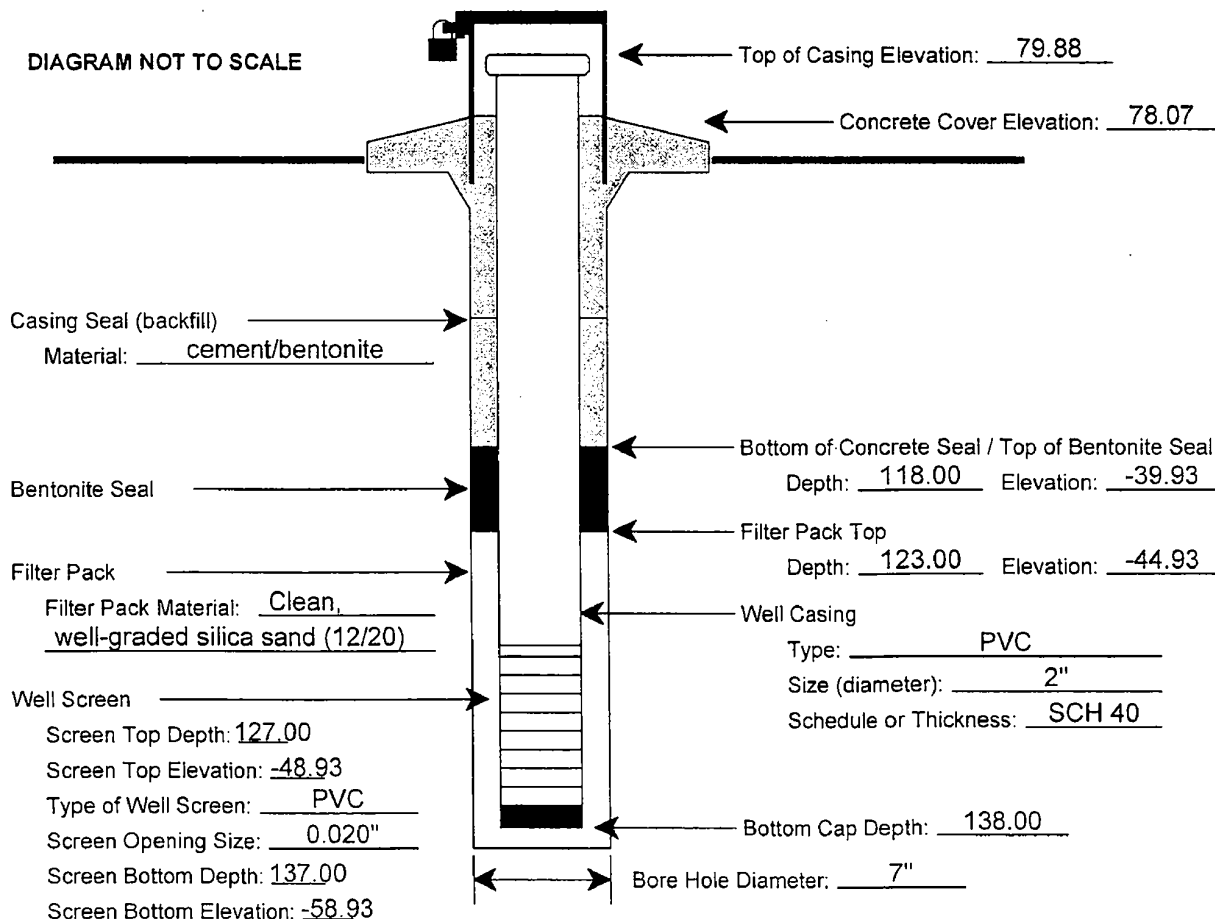
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-10L
Date of Well Development: 10/1/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Three, stainless-steel centralizers installed at 45 ft, 95 ft, and 126 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/21/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 25.01
Name of Geologic Formation(s) in which Well is completed: see boring log B-10

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WS Date: 4-3-08
Checked by: WBD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 10/10/07
Observation Well Northing: 13418474.37 US ft Easting: 2604768.43 US ft
Observation Well Location: Northeast Sector

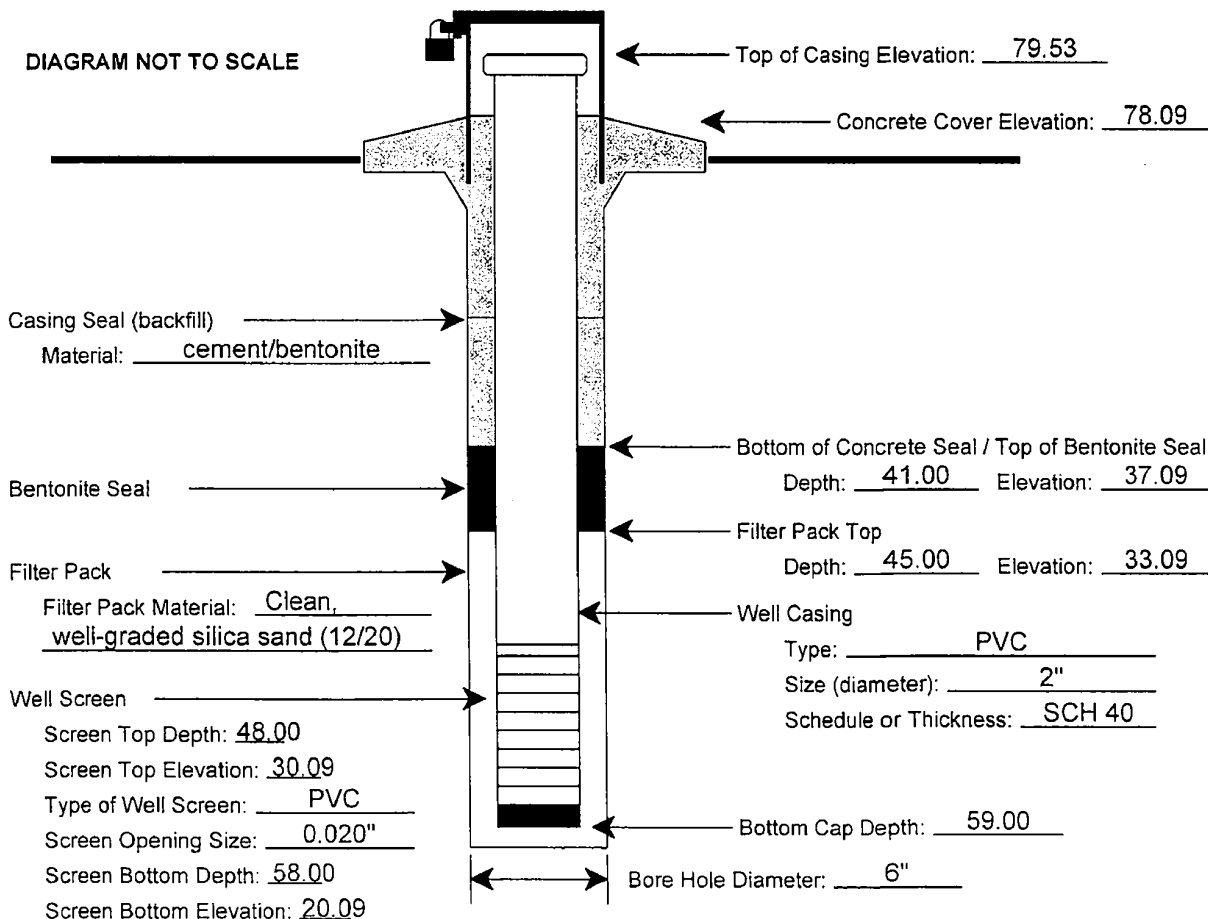
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: 0W-10U
Date of Well Development: 10/10/07
Observation Well Driller
Name: Lewis Env.
License No.: 54672M

NOTES:

One, stainless-steel centralizer installed at 47 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/21/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: James A. Schiff
Static Water Level Elevation (with respect to NAVD88) after Well Development: 22.57
Name of Geologic Formation(s) in which Well is completed: see boring log B-10

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJ Date: 4-3-08
Checked by: WJD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/31/08
Observation Well Northing: 13414429.77 US ft Easting: 2596268.29 US ft
Observation Well Location: Northern Sector

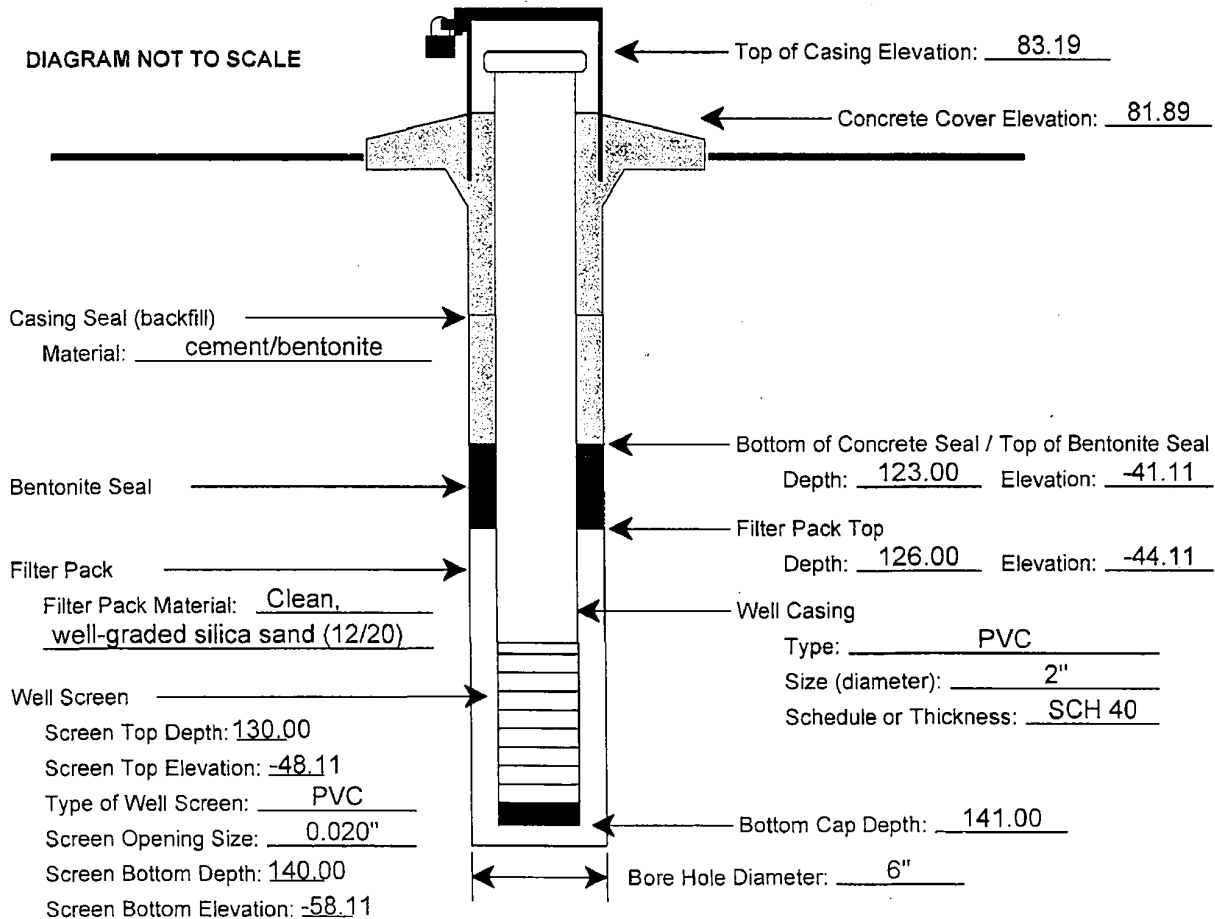
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2301L
Date of Well Development: 1/31/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 124 ft and 141 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/6/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 38.38
Name of Geologic Formation(s) in which Well is completed: see boring log B-2301

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/30/08
Observation Well Northing: 13414430.08 US ft Easting: 2596288.46 US ft
Observation Well Location: Northern Sector

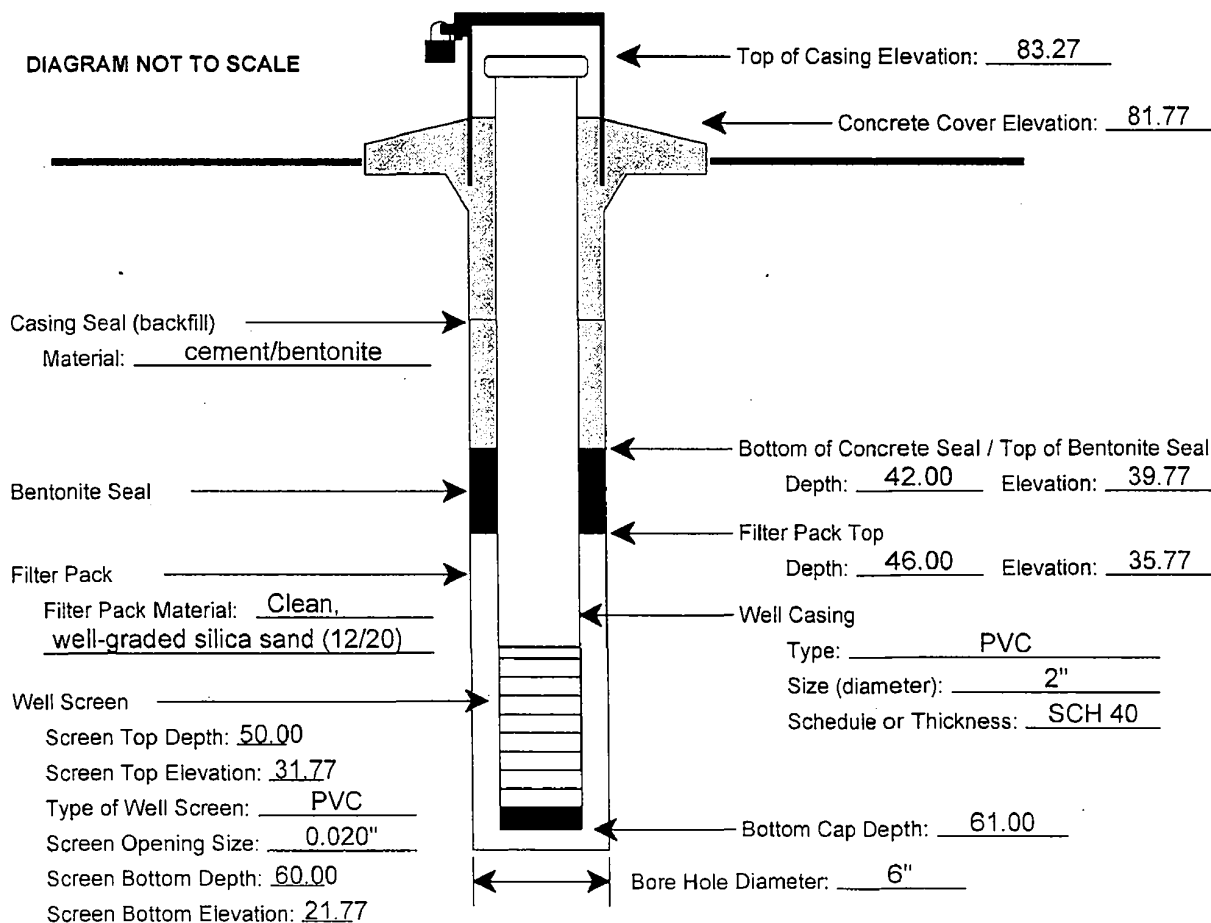
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2301U
Date of Well Development: 1/30/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 43 ft and 60 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/6/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 50.25
Name of Geologic Formation(s) in which Well is completed: see boring log B-2301

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/8/08
Observation Well Northing: 13407382.11 US ft Easting: 2598388.94 US ft
Observation Well Location: Cooling Pond Area

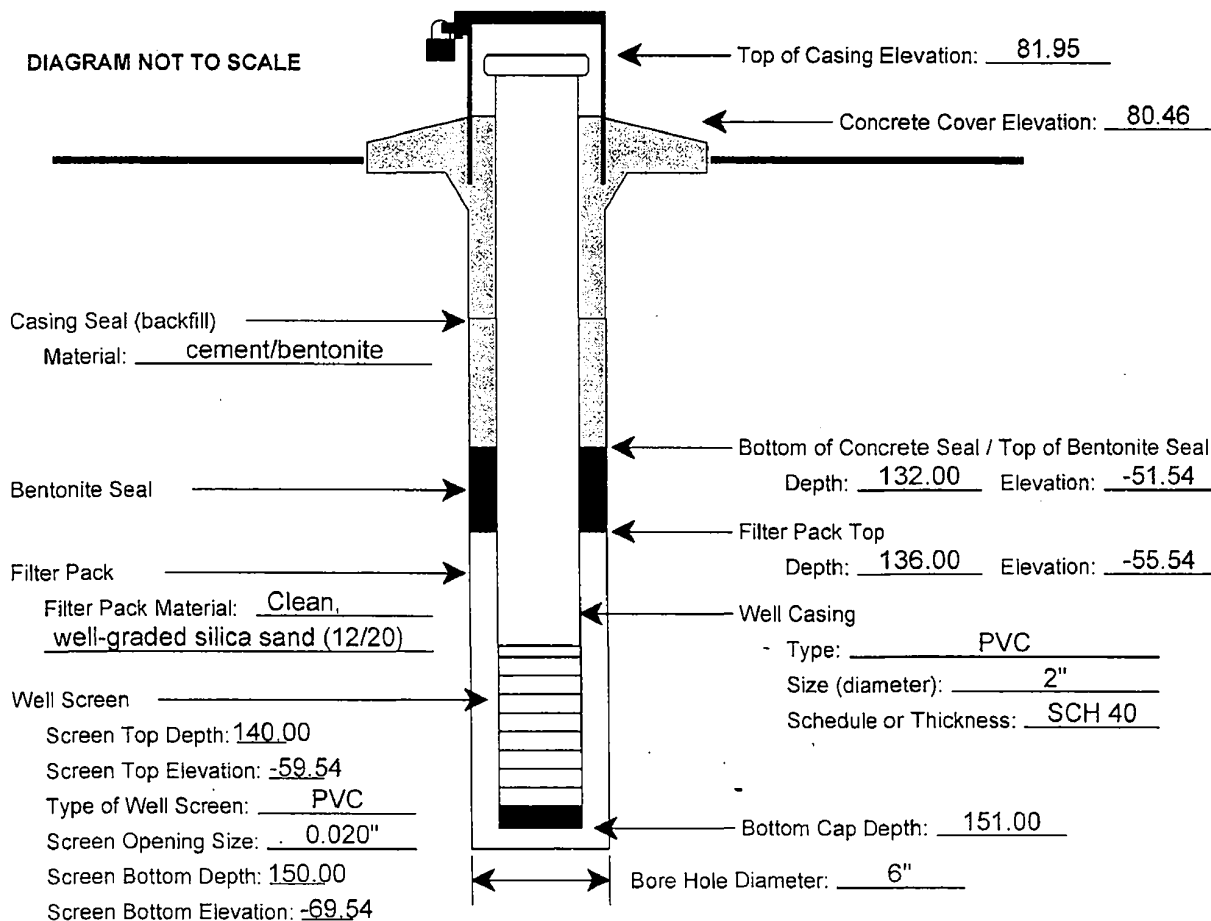
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-23021
Date of Well Development: 1/8/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 134 ft and 150 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/19/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 37.09
Name of Geologic Formation(s) in which Well is completed: see boring log B-2302

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: W3d Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/8/08
Observation Well Northing: 13407361.50 US ft Easting: 2598388.47 US ft
Observation Well Location: Cooling Pond Area

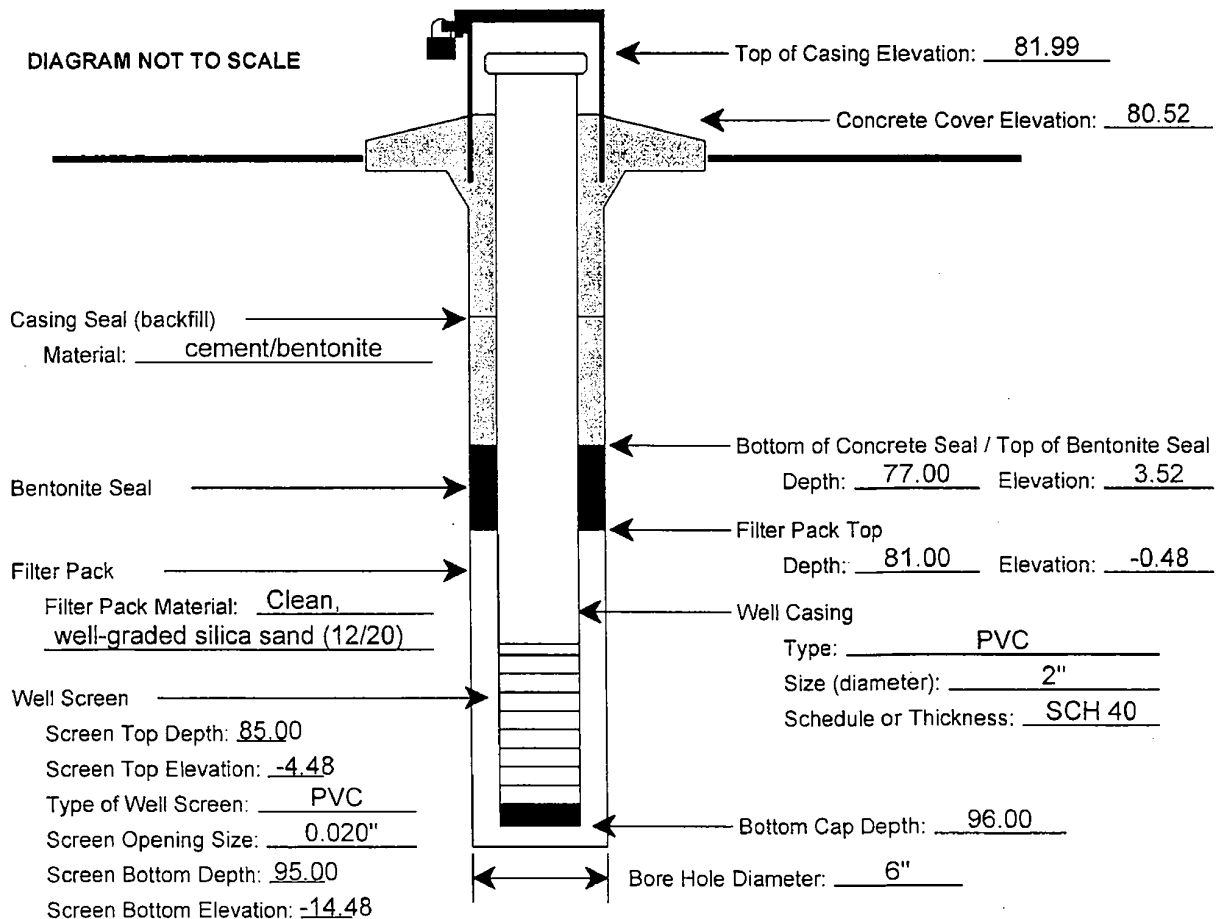
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2302U
Date of Well Development: 1/8/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 79 ft and 95 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/18/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 38.95
Name of Geologic Formation(s) in which Well is completed: see boring log B-2302

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WBR Date: 4-3-08
Checked by: WFD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 2/5/08
Observation Well Northing: 13396528.12 US ft Easting: 2608678.06 US ft
Observation Well Location: Cooling Pond Area

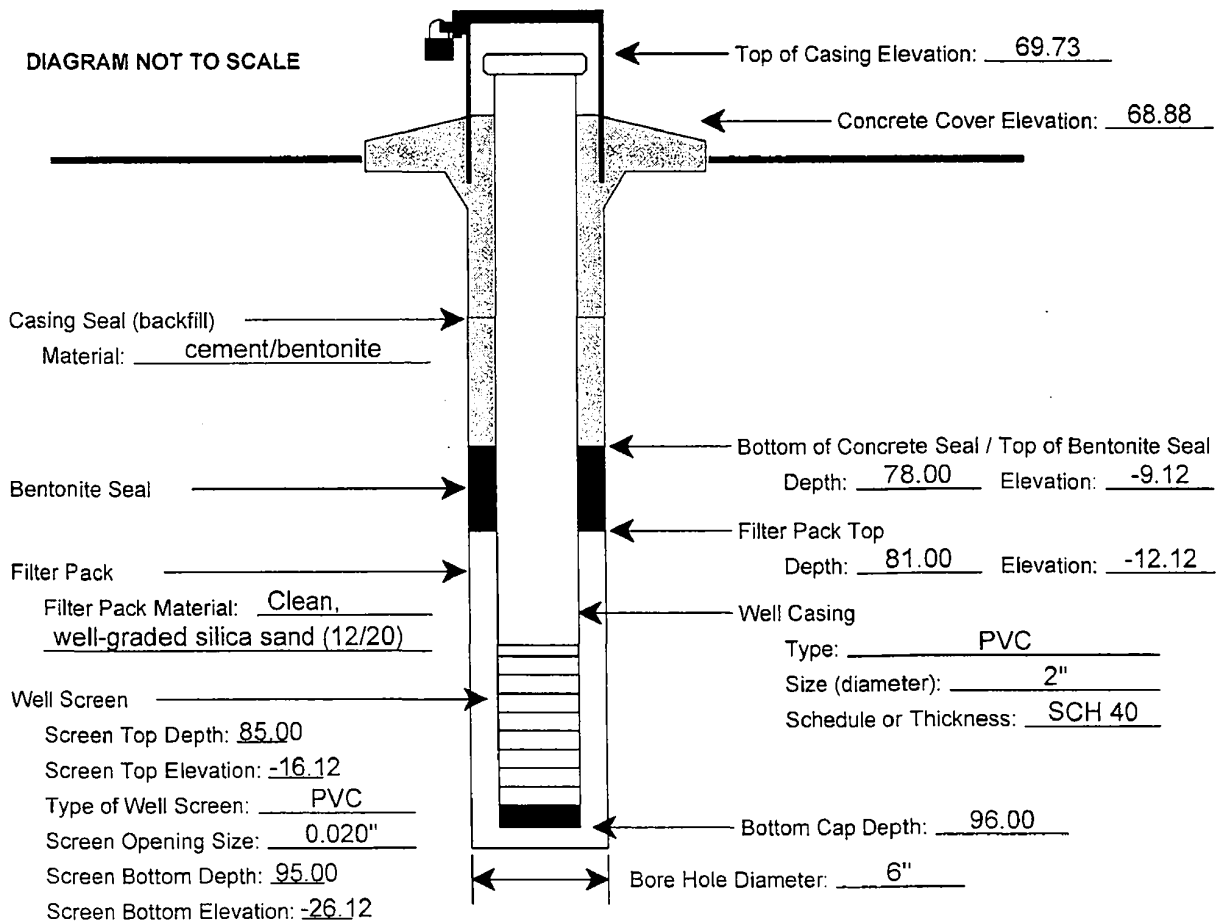
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2304I
Date of Well Development: 2/5/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/7/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 27.52
Name of Geologic Formation(s) in which Well is completed: see boring log B-2304

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: WSE Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 2/5/08
Observation Well Northing: 13396542.39 US ft Easting: 2608679.35 US ft
Observation Well Location: Cooling Pond Area

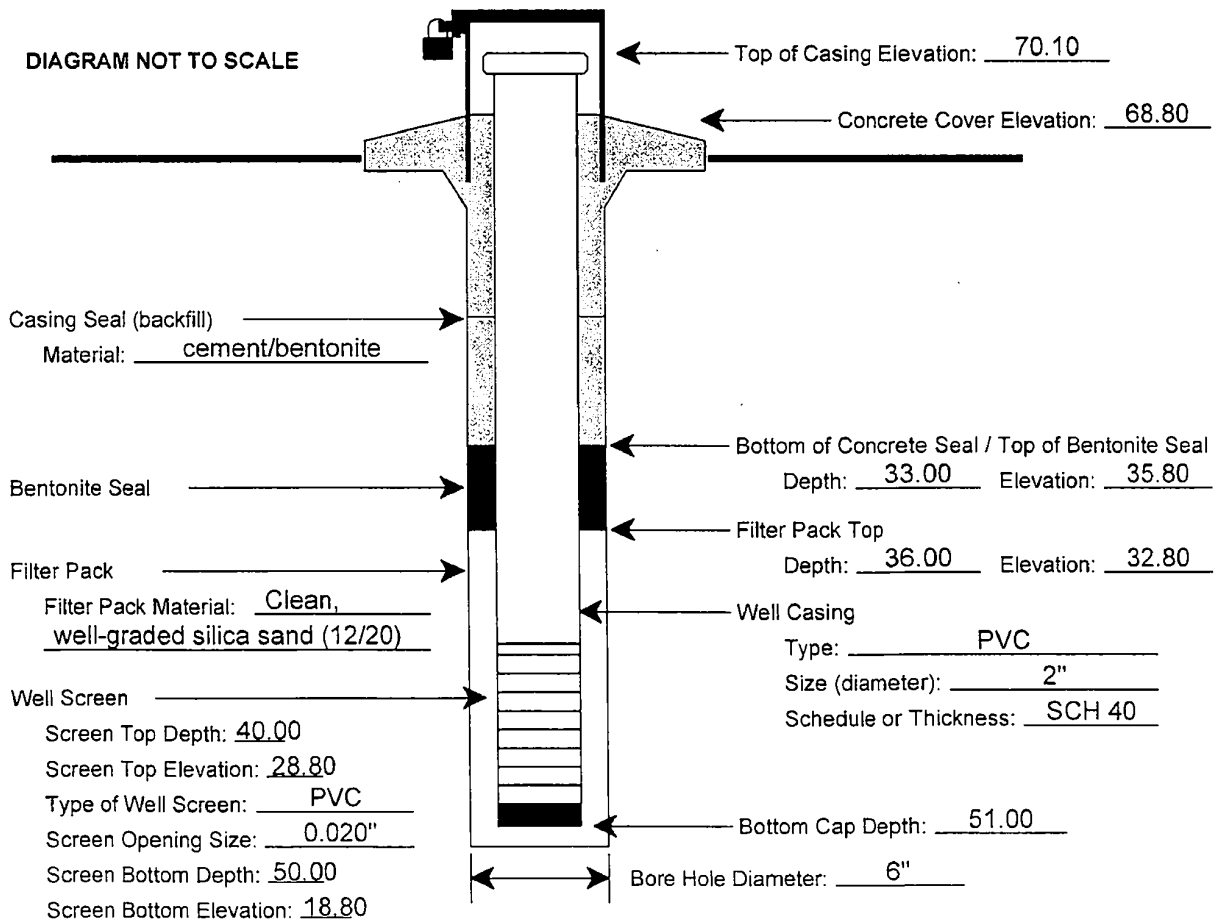
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2304U
Date of Well Development: 2/5/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/7/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 36.24
Name of Geologic Formation(s) in which Well is completed: see boring log B-2304

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJ Date: 4-3-08
Checked by: WJD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/20/08
Observation Well Northing: 13420879.09 US ft Easting: 2603152.12 US ft
Observation Well Location: Northern Sector

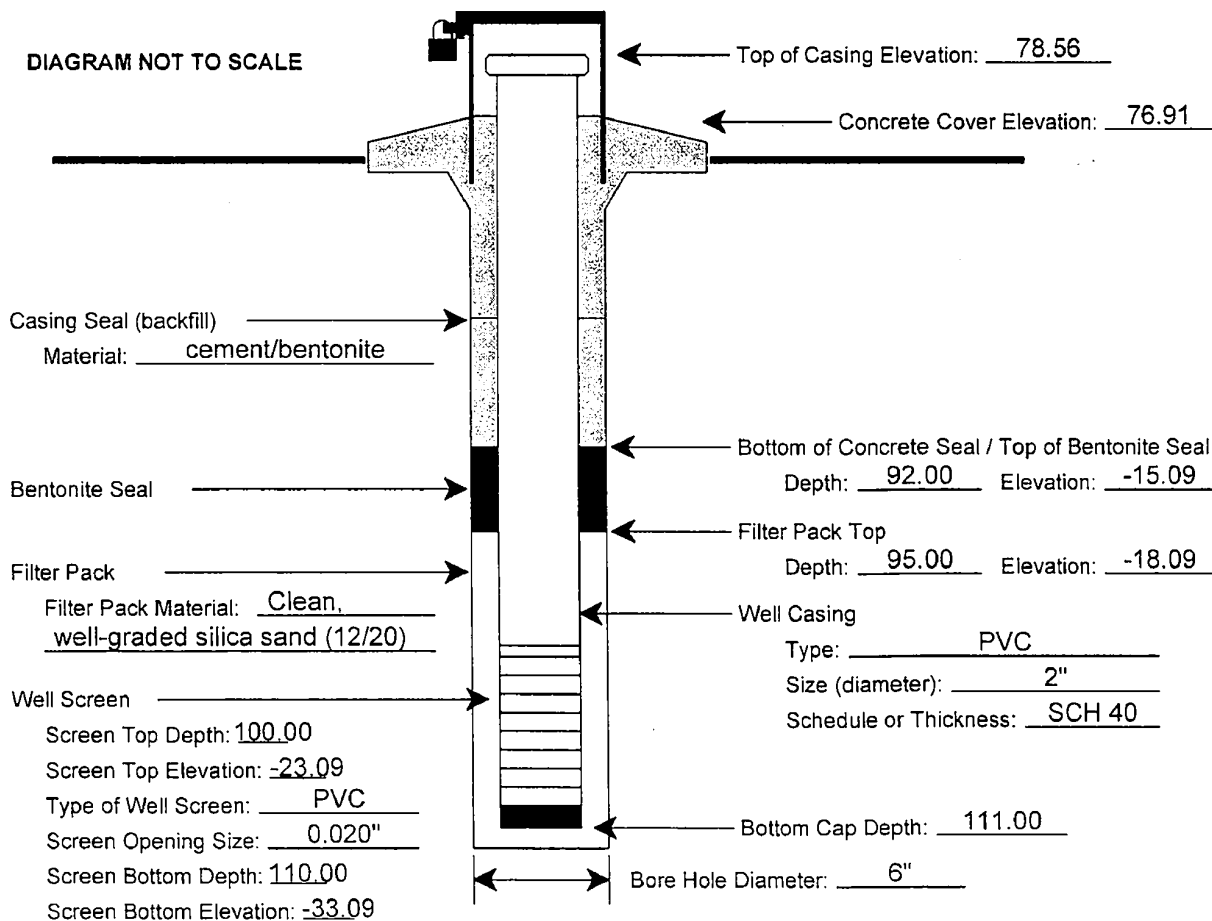
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2307L
Date of Well Development: 1/20/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/23/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 27.36
Name of Geologic Formation(s) in which Well is completed: see boring log B-2307

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/19/08
Observation Well Northing: 13420896 73 US ft Easting: 2603164 23 US ft
Observation Well Location: Northern Sector

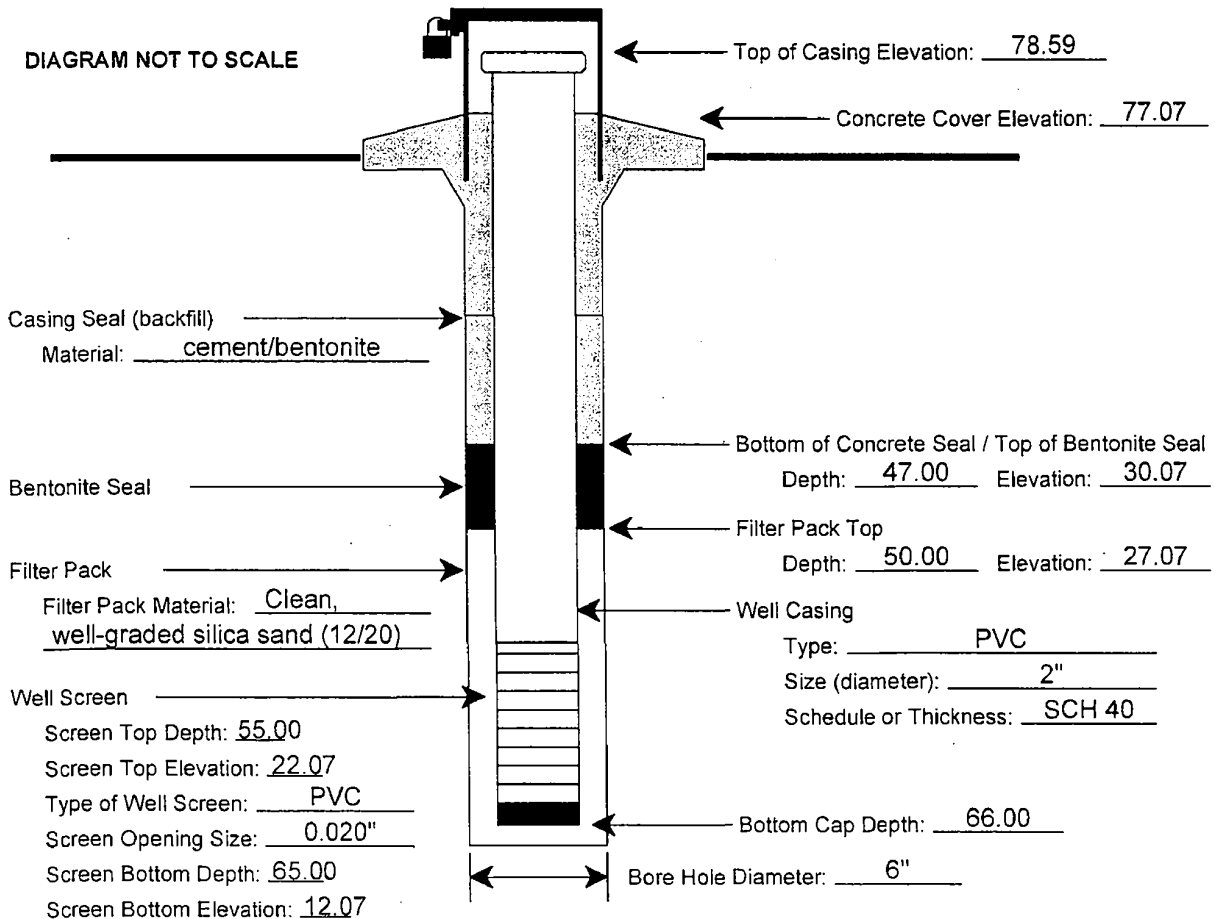
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2307U
Date of Well Development: 1/19/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/23/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 32.71
Name of Geologic Formation(s) in which Well is completed: see boring log B-2307

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WFL Date: 4-3-08
Checked by: WFL Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/6/08
Observation Well Northing: 13403611.30 US ft Easting: 2603051.83 US ft
Observation Well Location: Cooling Pond Area

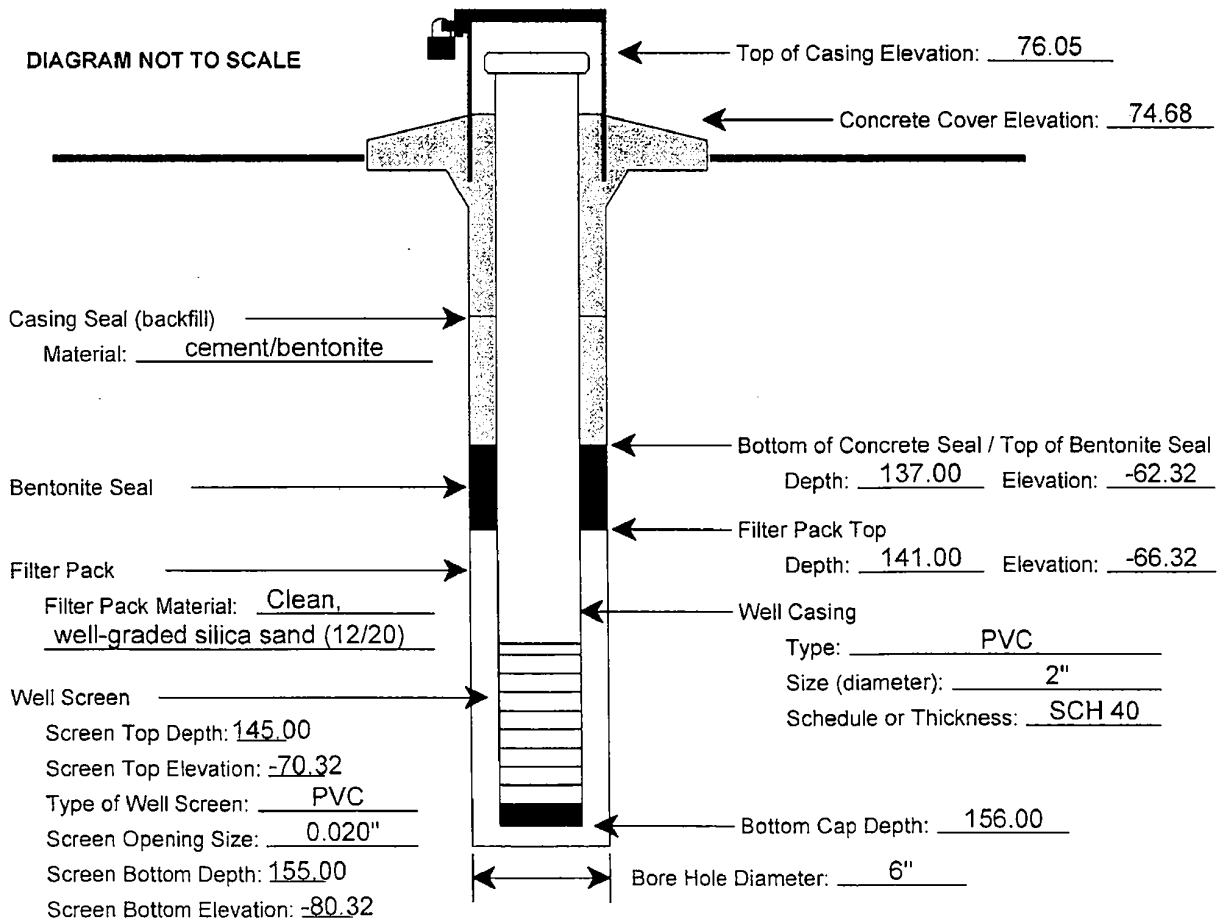
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2319L
Date of Well Development: 1/6/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 139 ft and 155 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/18/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 32.87
Name of Geologic Formation(s) in which Well is completed: see boring log B-2319

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJL Date: 4-3-08
Checked by: WJL Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/6/08
Observation Well Northing: 13403590.40 US ft Easting: 2603046.21 US ft
Observation Well Location: Cooling Pond Area

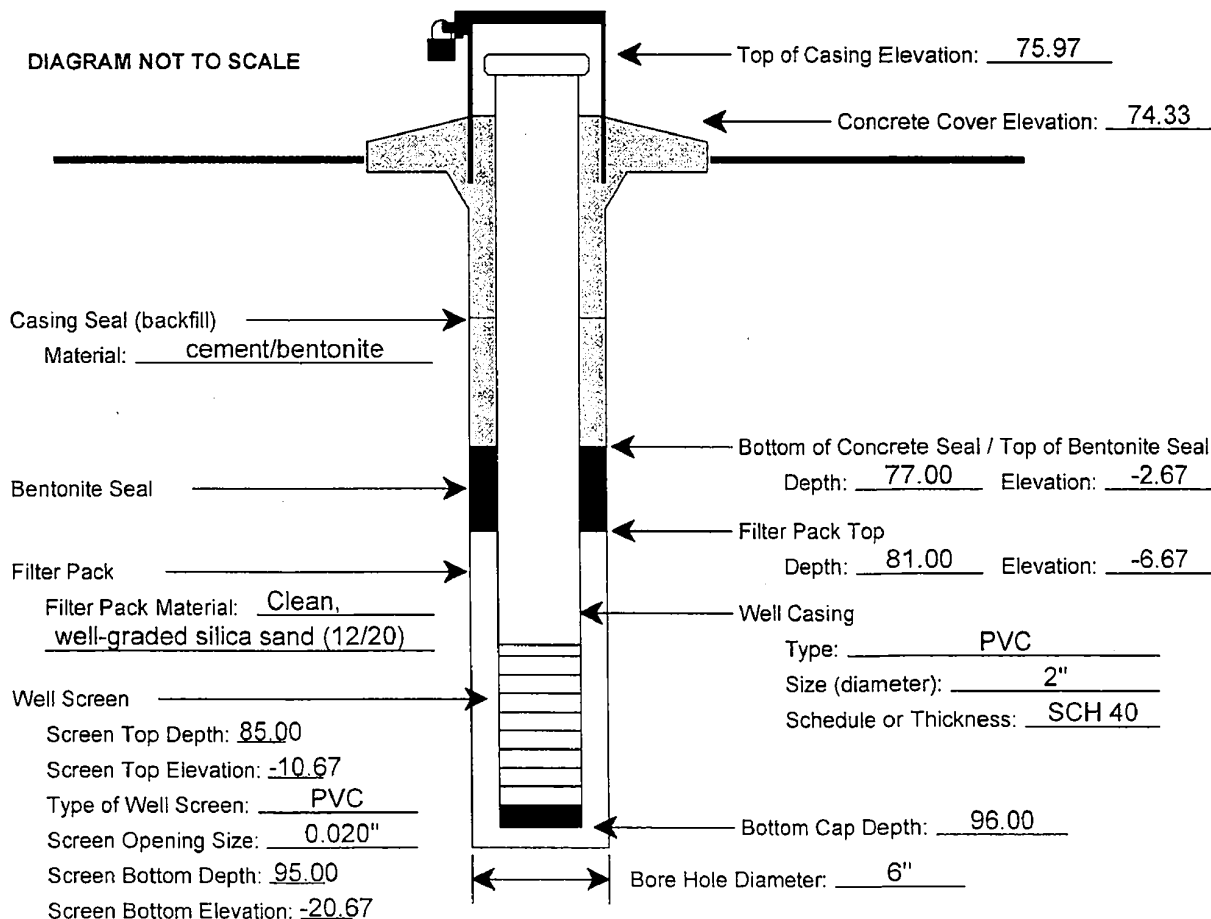
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2319U
Date of Well Development: 1/6/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 79 ft and 95 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/18/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 35.24
Name of Geologic Formation(s) in which Well is completed: see boring log B-2319

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WS Date: 4-3-08
Checked by: WBD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 12/20/07
Observation Well Northing: 13407580.88 US ft Easting: 2606834.36 US ft
Observation Well Location: Cooling Pond Area

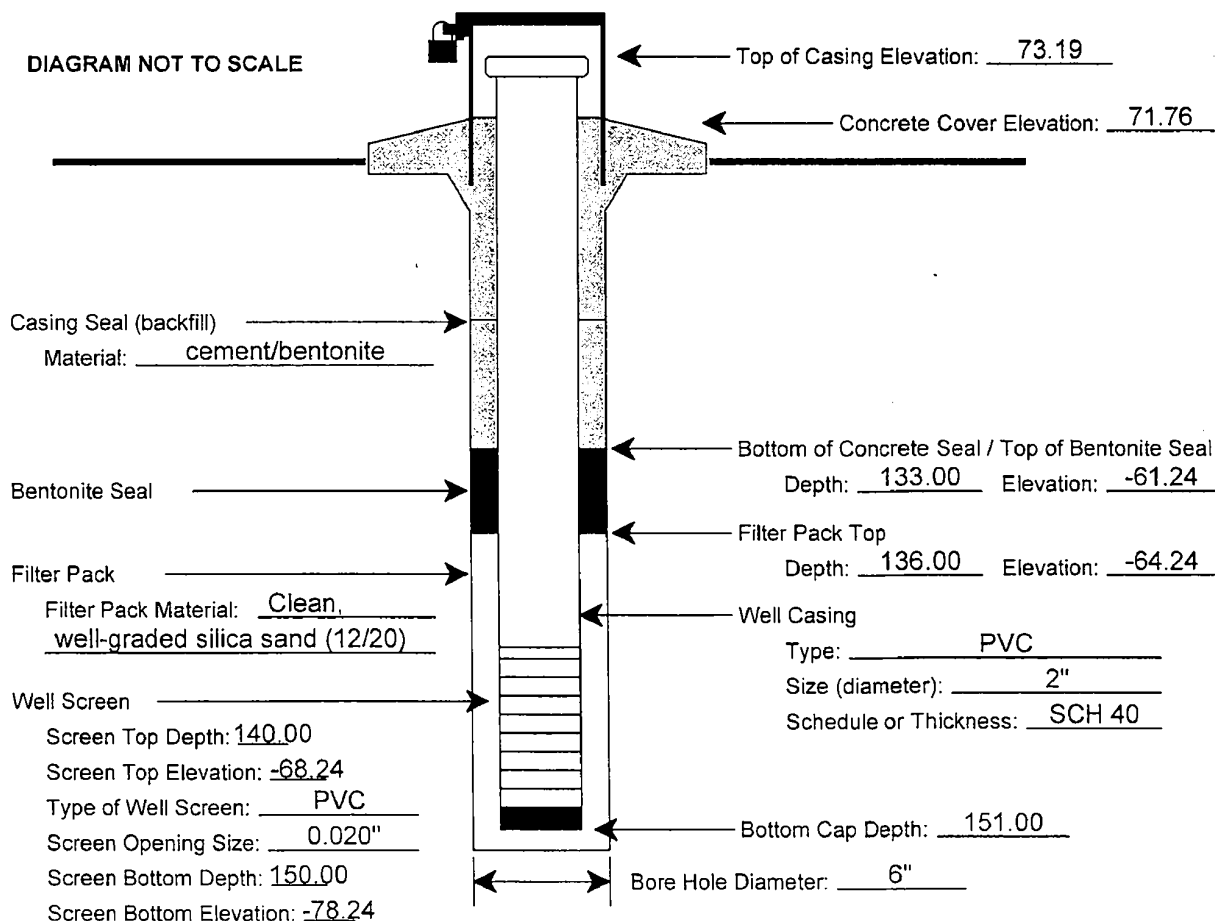
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2320L
Date of Well Development: 12/20/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 134 ft and 150 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/18/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 30.01
Name of Geologic Formation(s) in which Well is completed: see boring log B-2320

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJL Date: 4-3-08
Checked by: WJL Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 12/20/07
Observation Well Northing: 13407569.51 US ft Easting: 2606849.70 US ft
Observation Well Location: Cooling Pond Area

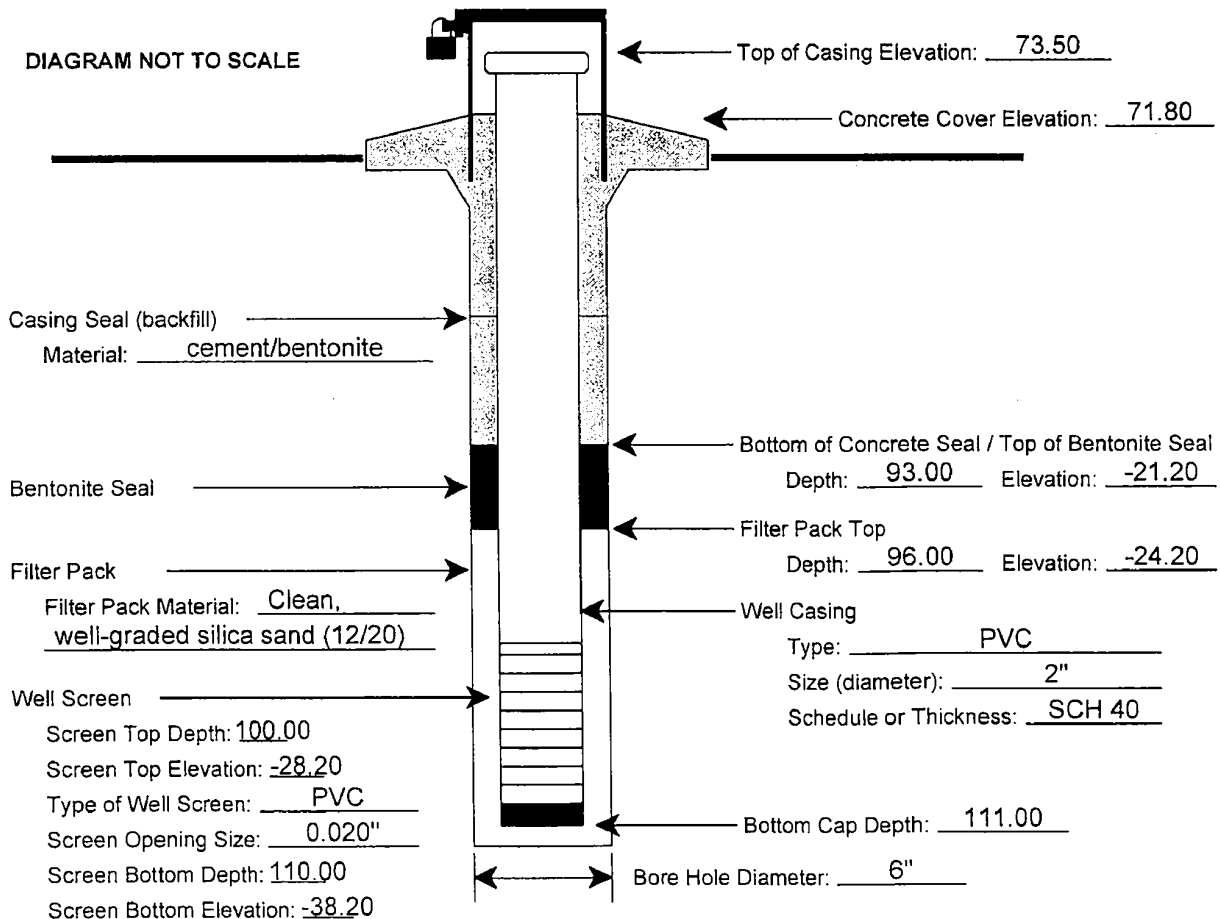
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2320U
Date of Well Development: 12/20/07
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 94 ft and 110 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 1/18/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 28.86
Name of Geologic Formation(s) in which Well is completed: see boring log B-2320

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/10/08
Observation Well Northing: 13407445.66 US ft Easting: 2607080.05 US ft
Observation Well Location: Cooling Pond Area

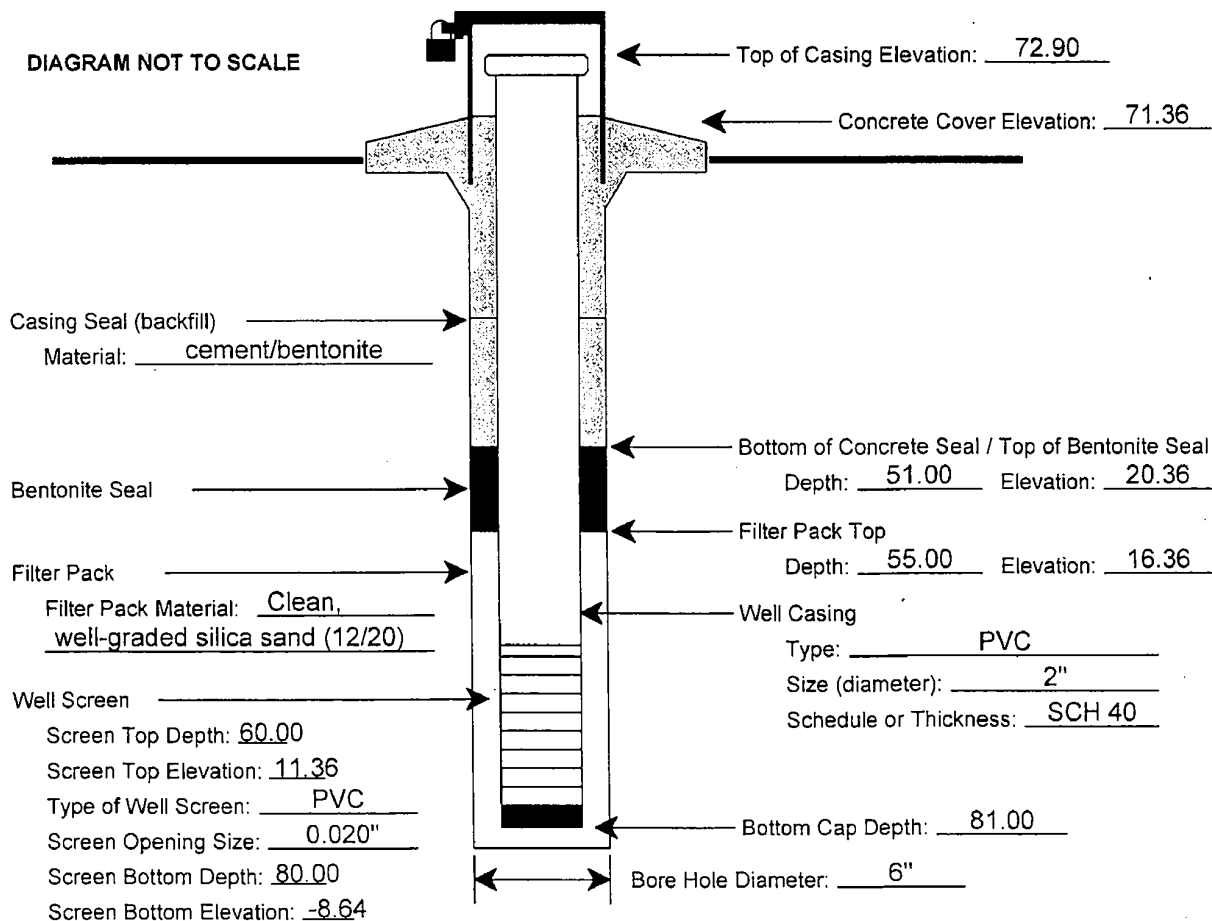
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2320U1
Date of Well Development: 1/10/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 53 ft and 80 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 29.19
Name of Geologic Formation(s) in which Well is completed: see boring log B-2320

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: W56 Date: 4-3-08
Checked by: W90 Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/10/08
Observation Well Northing: 13407436 76 US ft Easting: 2607093 25 US ft
Observation Well Location: Cooling Pond Area

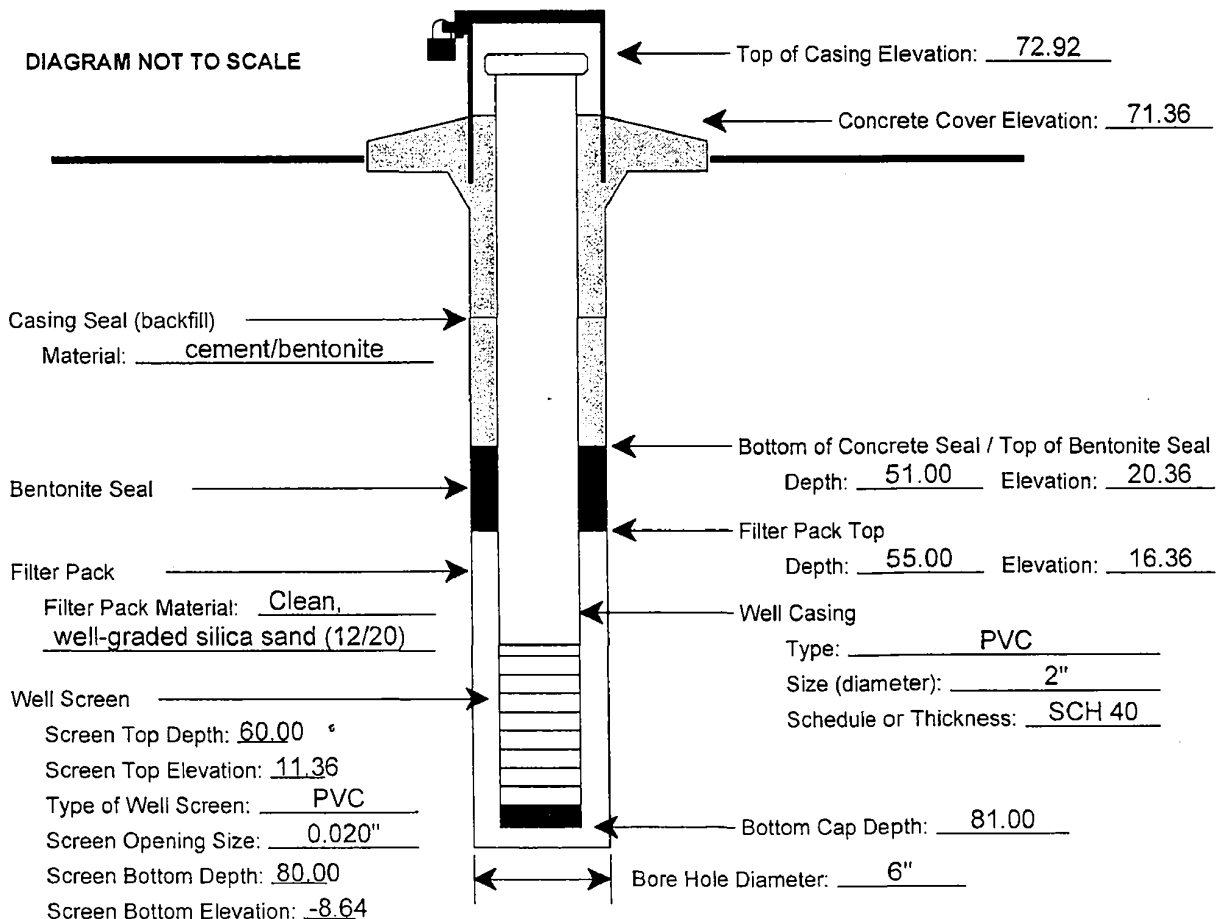
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2320U2
Date of Well Development: 1/10/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 53 ft and 80 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 29.19
Name of Geologic Formation(s) in which Well is completed: see boring log B-2320

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WBR Date: 4-3-08
Checked by: WBR Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/10/08
Observation Well Northing: 13407448.17 US ft Easting: 2607121.37 US ft
Observation Well Location: Cooling Pond Area

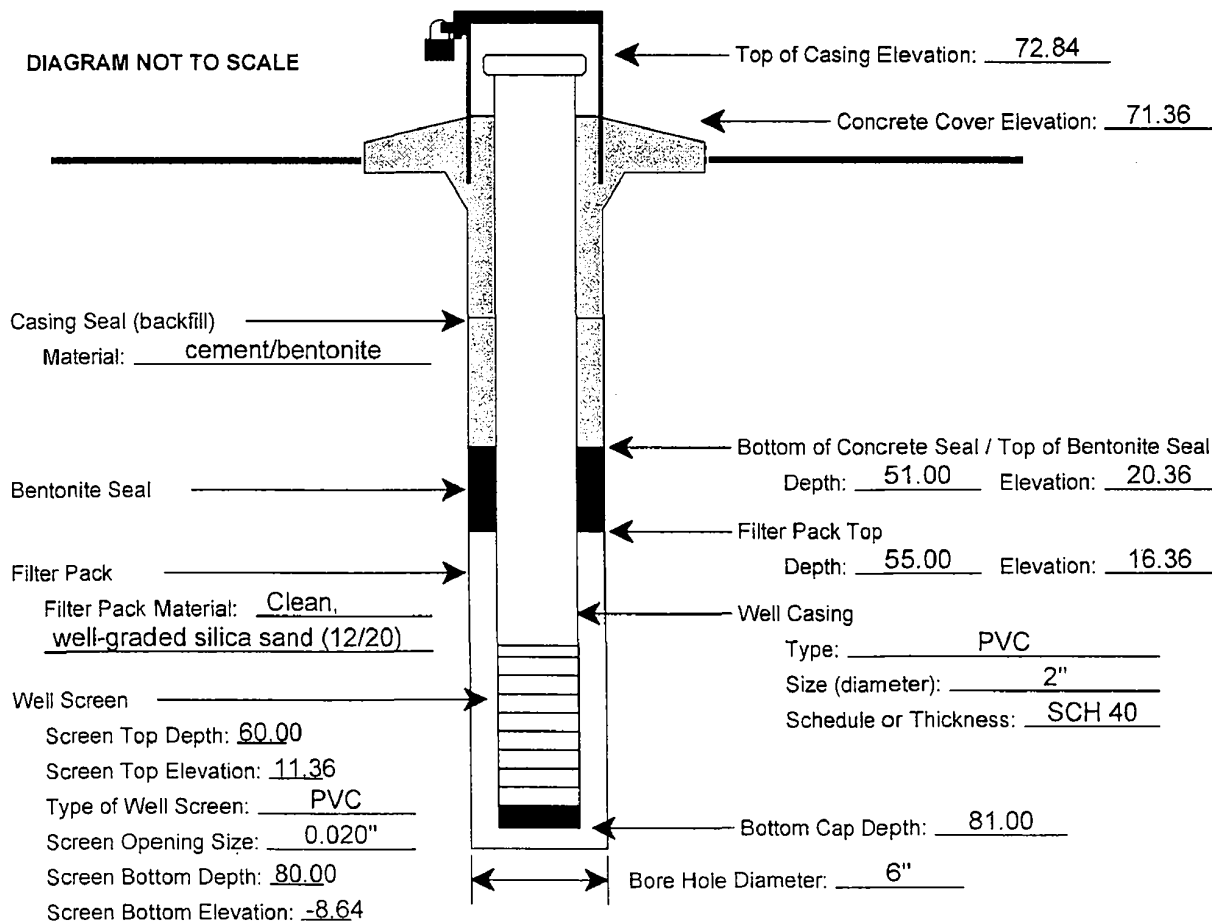
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2320U3
Date of Well Development: 1/10/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 53 ft and 80 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 29.06
Name of Geologic Formation(s) in which Well is completed: see boring log B-2320

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: W3d Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/10/08
Observation Well Northing: 13407466.49 US ft Easting: 2607138.42 US ft
Observation Well Location: Cooling Pond Area

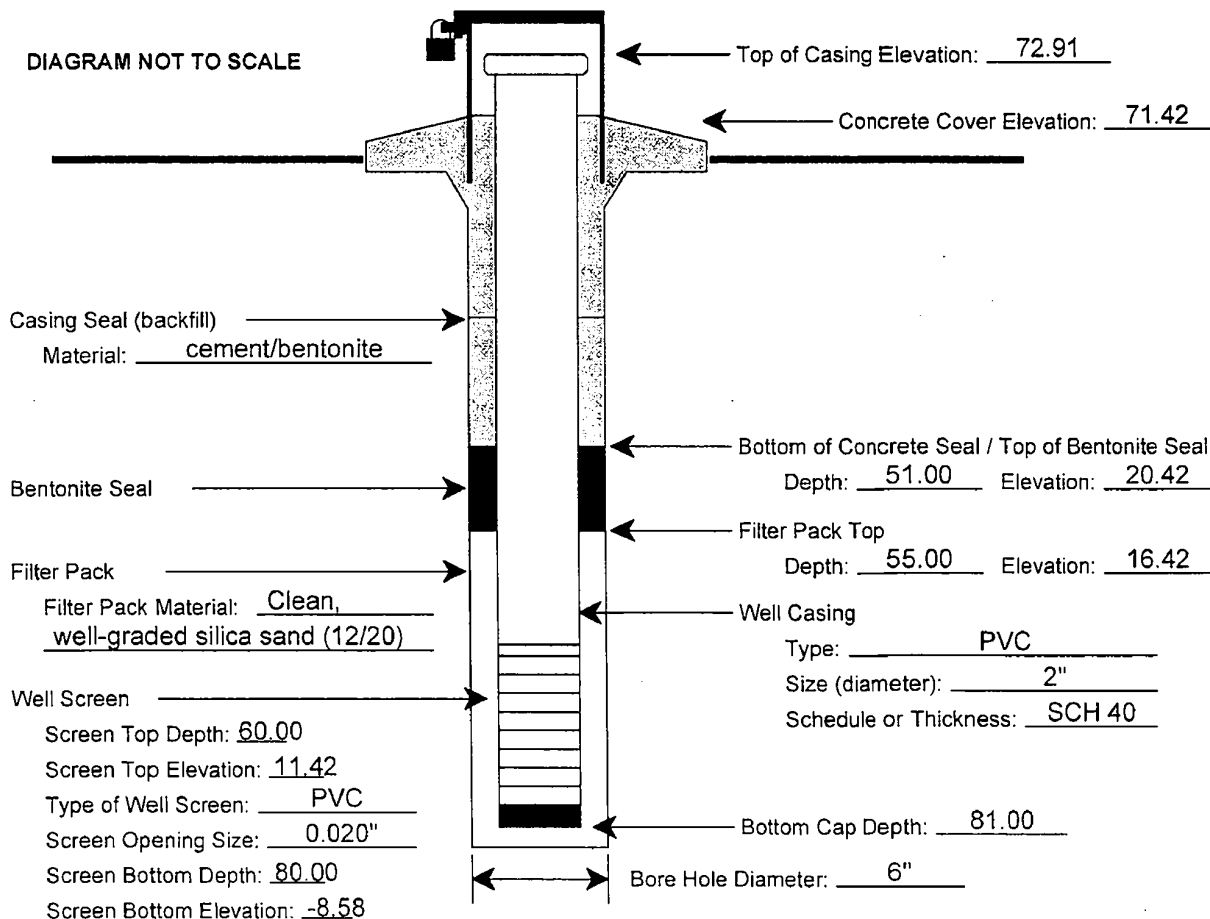
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2320U4
Date of Well Development: 1/10/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 53 ft and 80 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 28.94
Name of Geologic Formation(s) in which Well is completed: see boring log B-2320

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJ Date: 4-3-08
Checked by: WJD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/8/08
Observation Well Northing: 13410955.46 US ft Easting: 2610027.59 US ft
Observation Well Location: Cooling Pond Area

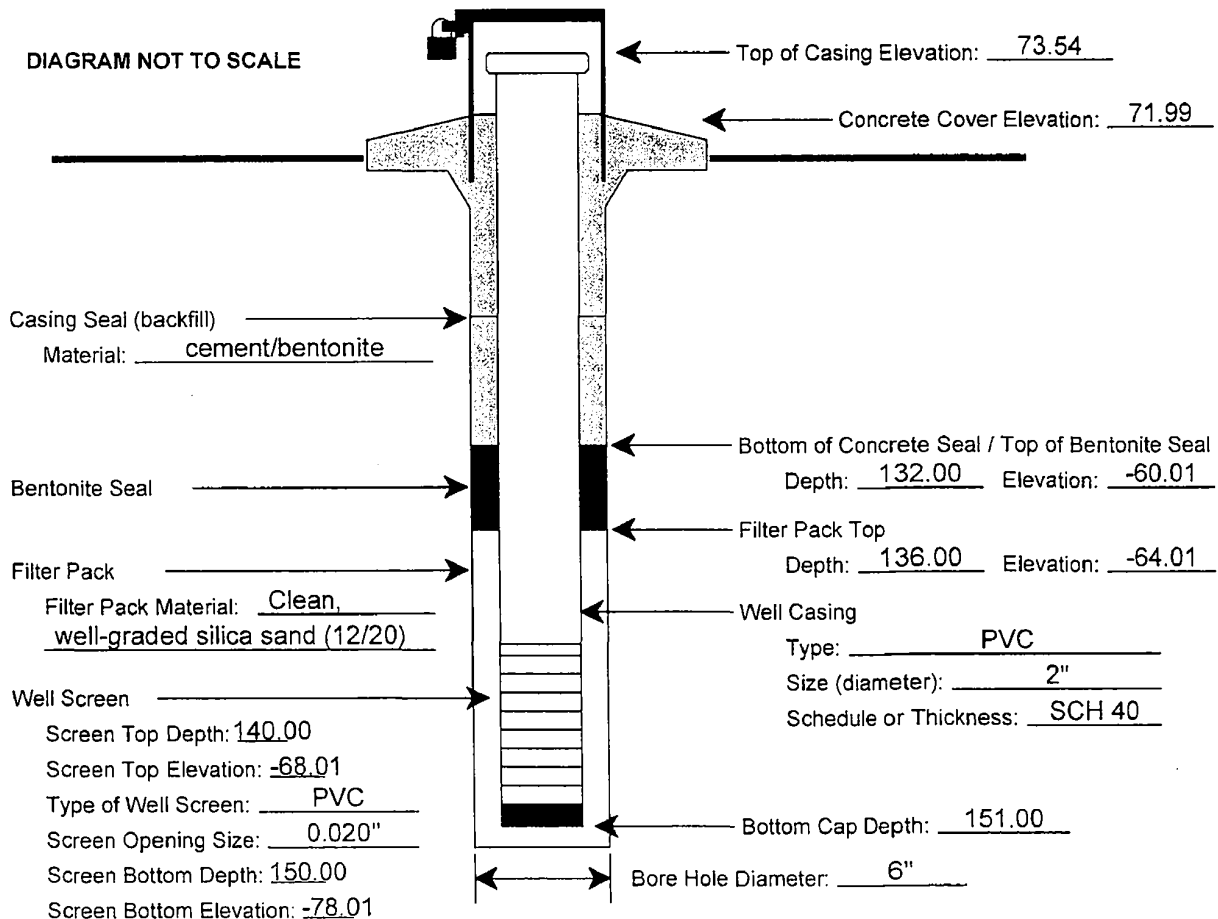
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2321L
Date of Well Development: 1/8/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 133 ft and 150 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/5/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 22.06
Name of Geologic Formation(s) in which Well is completed: see boring log B-2321

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJG Date: 4-3-08
Checked by: WJG Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/8/08
Observation Well Northing: 13410943.58 US ft Easting: 2610040.96 US ft
Observation Well Location: Cooling Pond Area

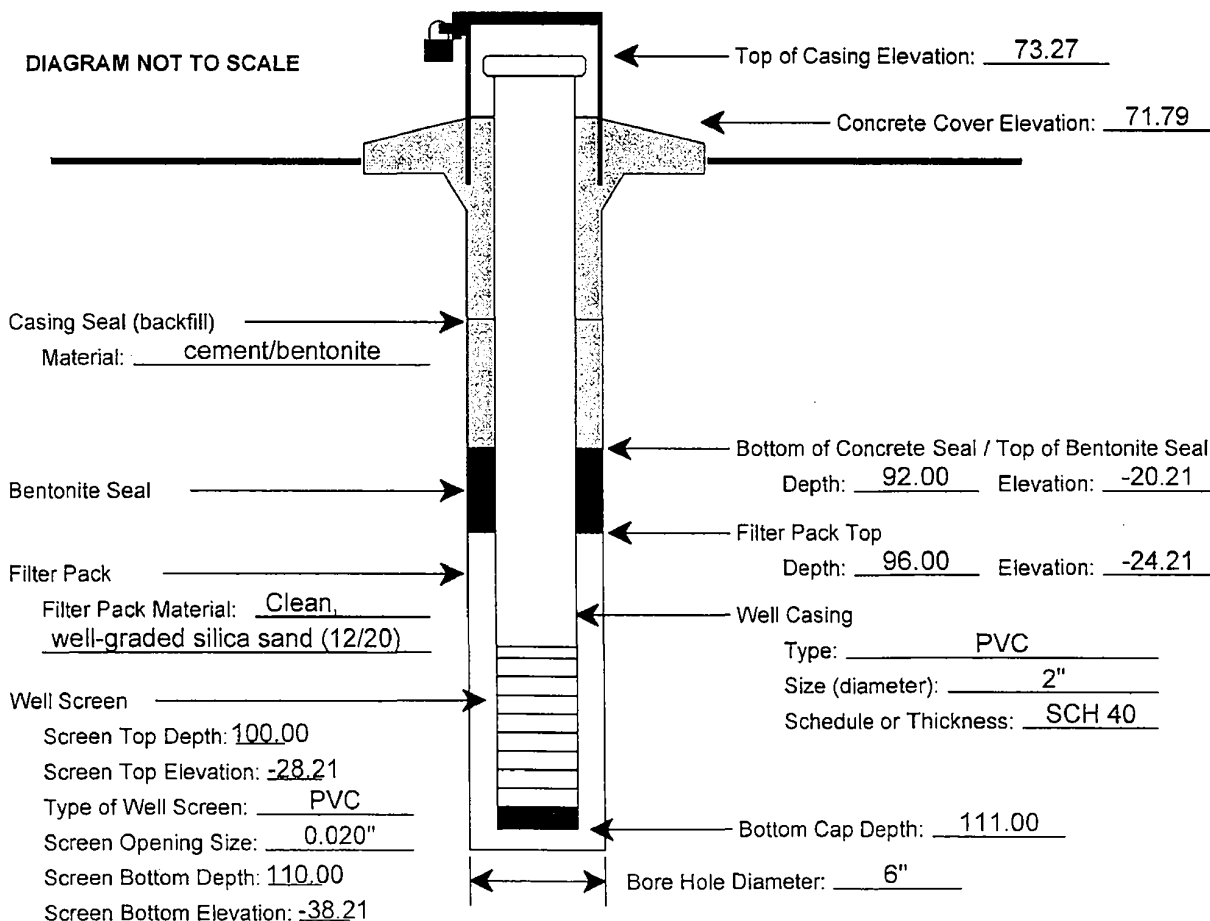
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2321U
Date of Well Development: 1/8/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 94 ft and 110 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/5/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 21.82
Name of Geologic Formation(s) in which Well is completed: see boring log B-2321

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSL Date: 4-3-08
Checked by: WBL Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/21/08
Observation Well Northing: 13416300.52 US ft Easting: 2612217.00 US ft
Observation Well Location: Eastern Sector

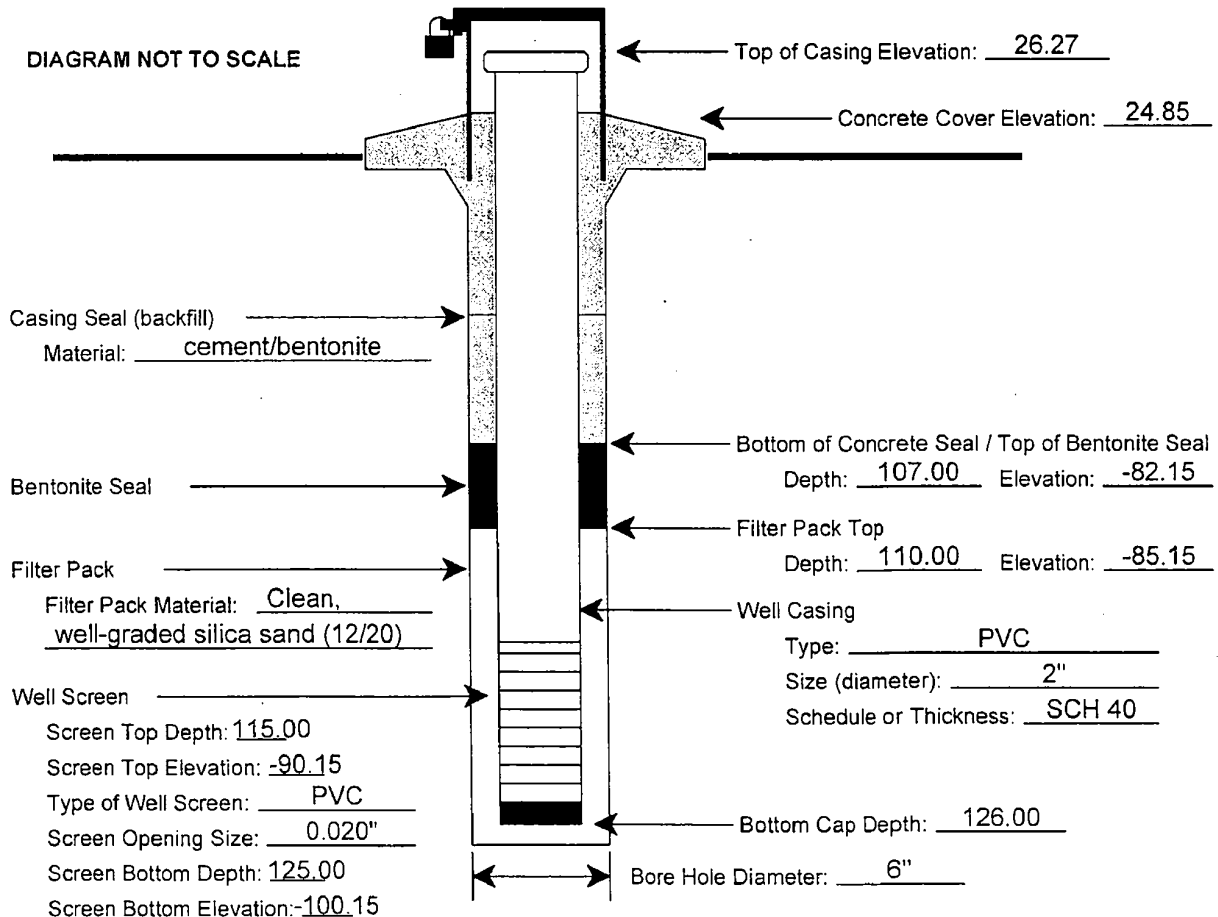
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2324I
Date of Well Development: 1/21/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/5/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 14.62
Name of Geologic Formation(s) in which Well is completed: see boring log B-2324

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/21/08
Observation Well Northing: 13416316.54 US ft Easting: 2612203.23 US ft
Observation Well Location: Eastern Sector

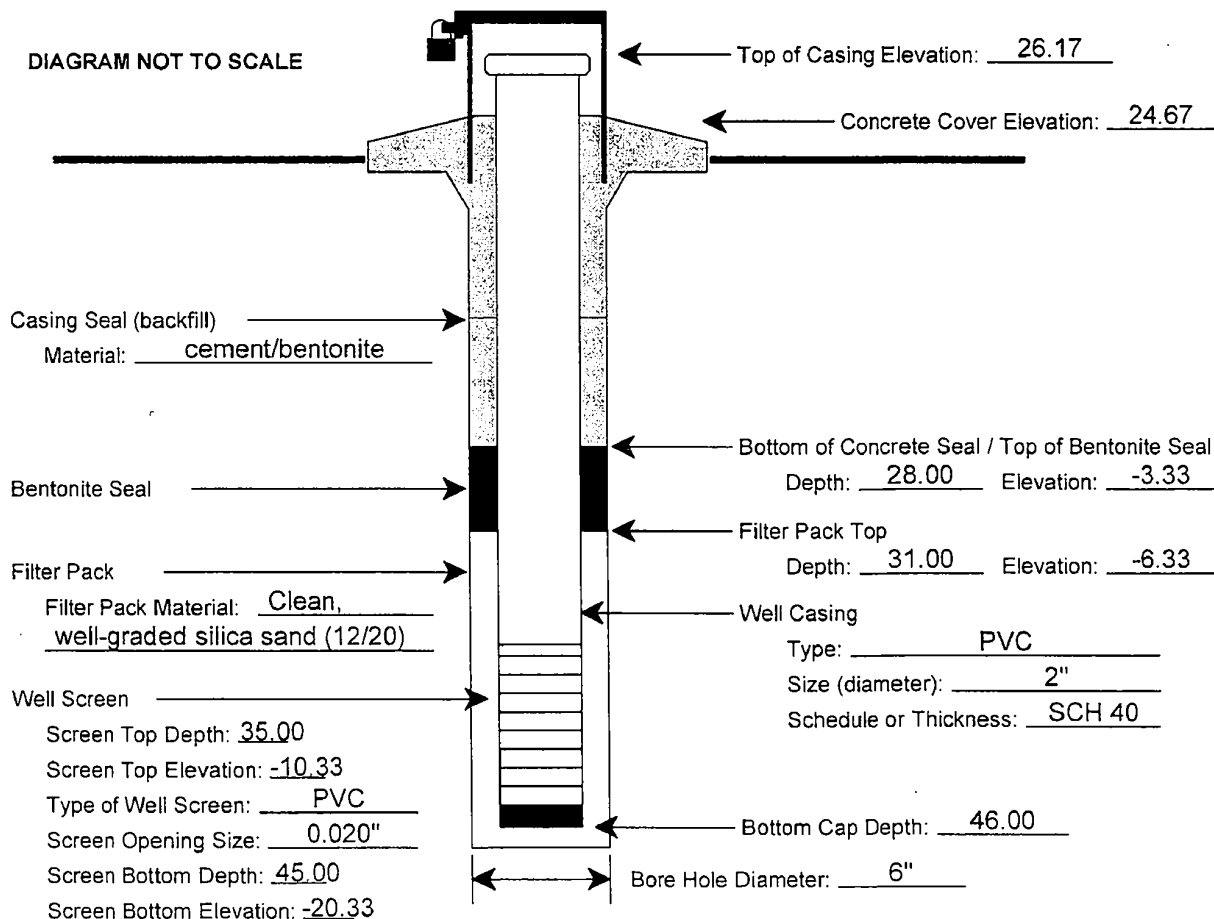
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2324U
Date of Well Development: 1/21/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/5/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 15.02
Name of Geologic Formation(s) in which Well is completed: see boring log B-2324

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: WFD Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 2/3/08
Observation Well Northing: 13409617.75 US ft Easting: 2621644.36 US ft
Observation Well Location: Eastern Sector

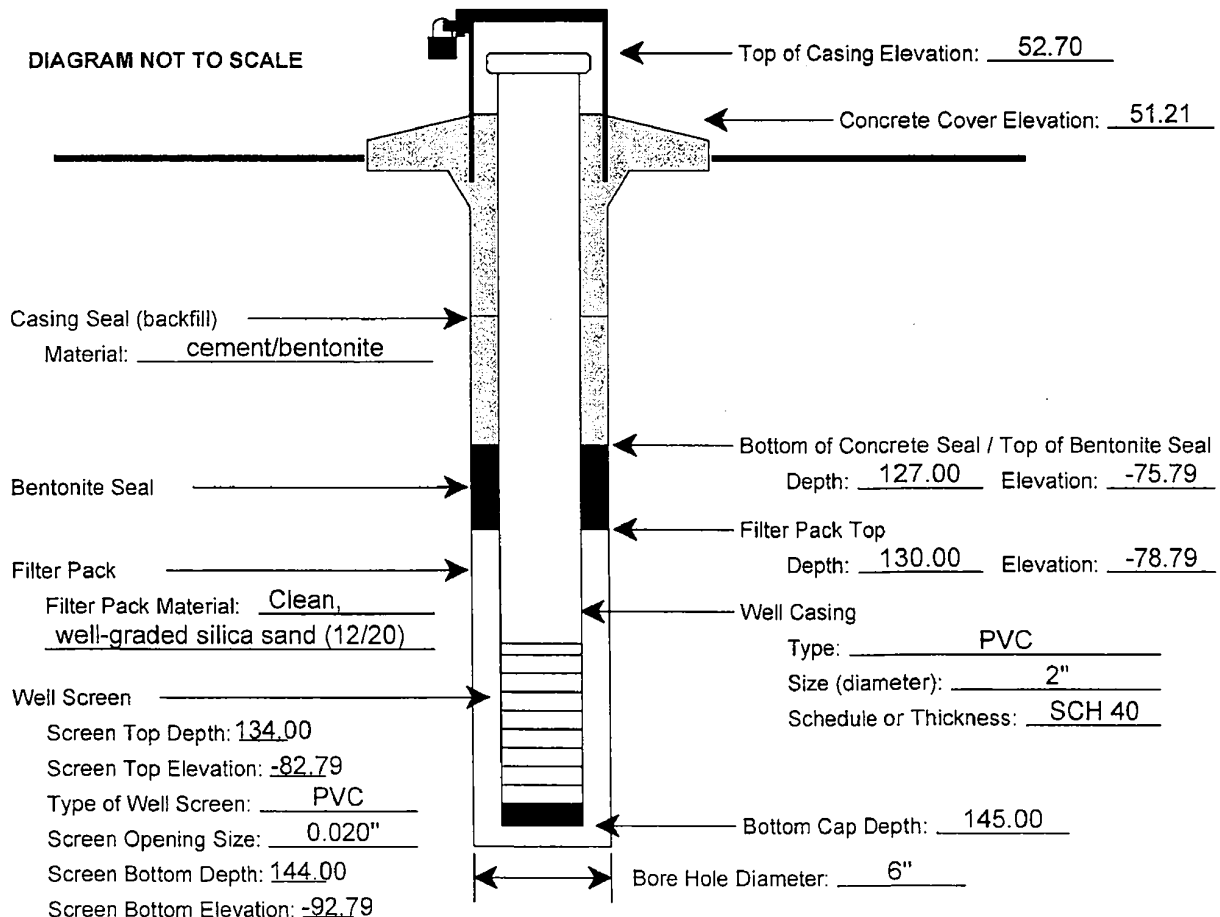
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2348I
Date of Well Development: 2/3/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/6/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 13.39
Name of Geologic Formation(s) in which Well is completed: see boring log B-2348

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 2/3/08
Observation Well Northing: 13409636.31 US ft Easting: 2621660.58 US ft
Observation Well Location: Eastern Sector

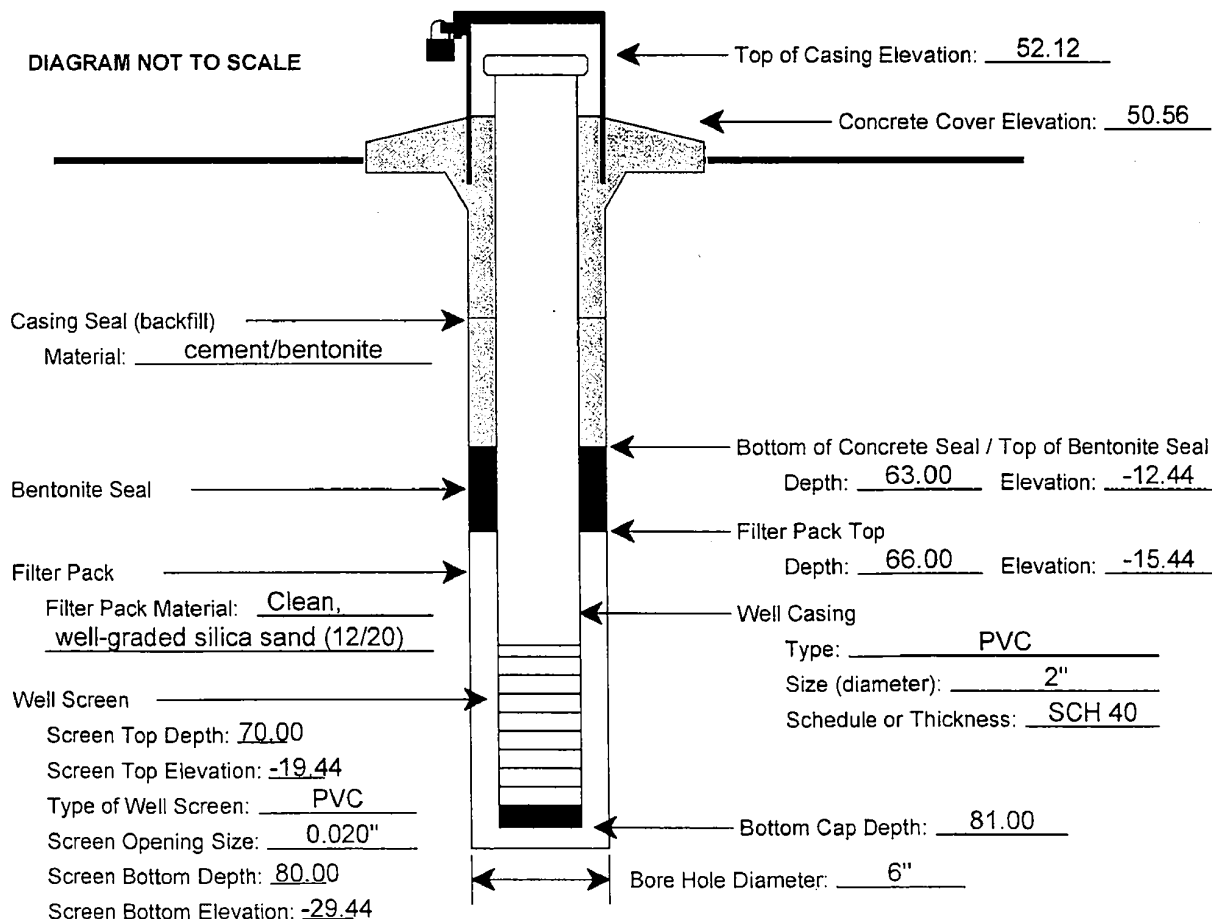
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2348U
Date of Well Development: 2/3/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/6/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 13.24
Name of Geologic Formation(s) in which Well is completed: see boring log B-2348

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJ Date: 4-3-08
Checked by: WJ Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)

MACTEC Project No.: 6468-07-1777

County: Victoria

Observation Well I.D.: OW-23521

Date of Observation Well Installation: 2/5/08

Date of Well Development: 2/5/08

Observation Well Northing: 13402468.45 US ft Easting: 2617518.54 US ft

Observation Well Location: Cooling Pond Area

Observation Well Driller

Name: BEST Drilling

License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 73 ft and 90 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/16/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

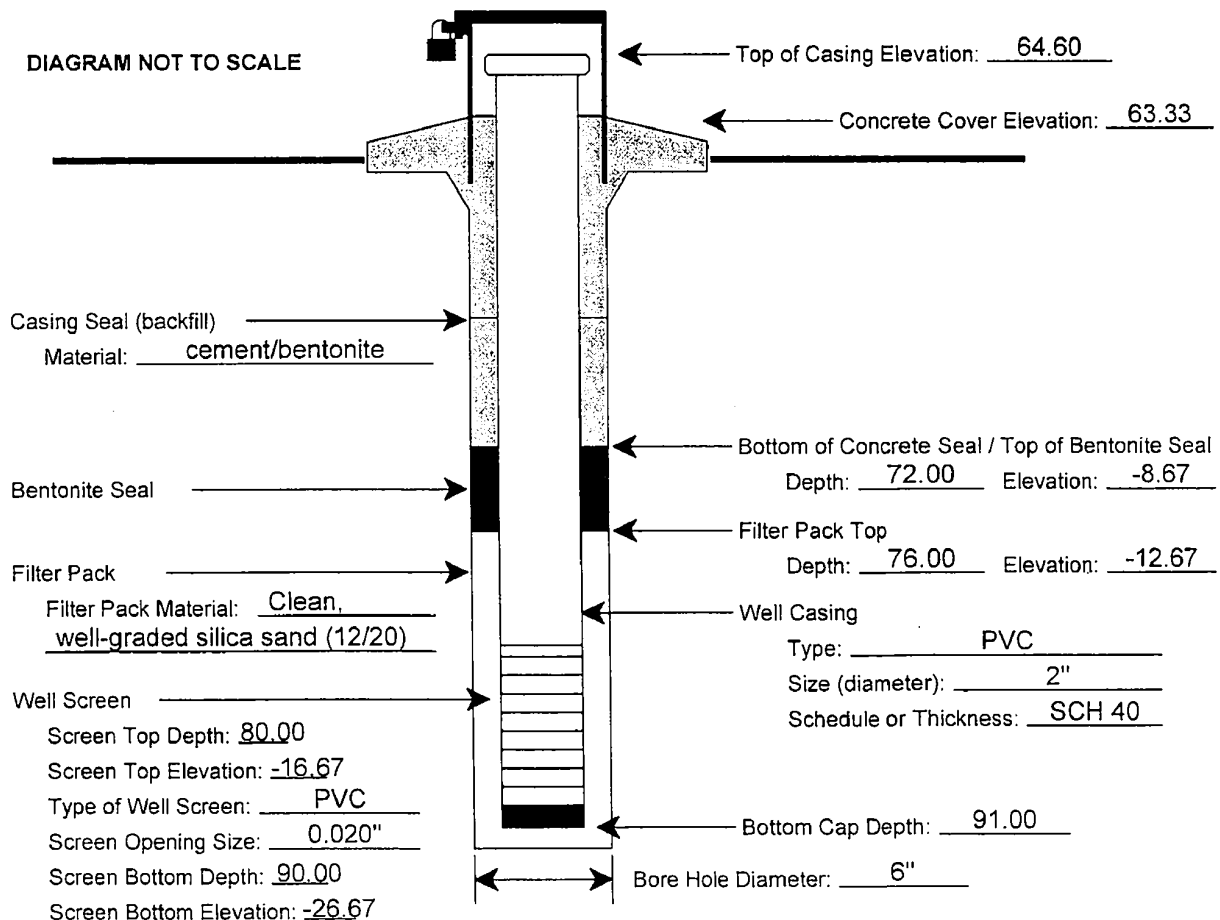
Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore

Static Water Level Elevation (with respect to NAVD88) after Well Development: 19.54

Name of Geologic Formation(s) in which Well is completed: see boring log B-2352

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSE Date: 4-3-08
Checked by: WJL Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 2/5/08
Observation Well Northing: 13402470.61 US ft Easting: 2617538.69 US ft
Observation Well Location: Cooling Pond Area

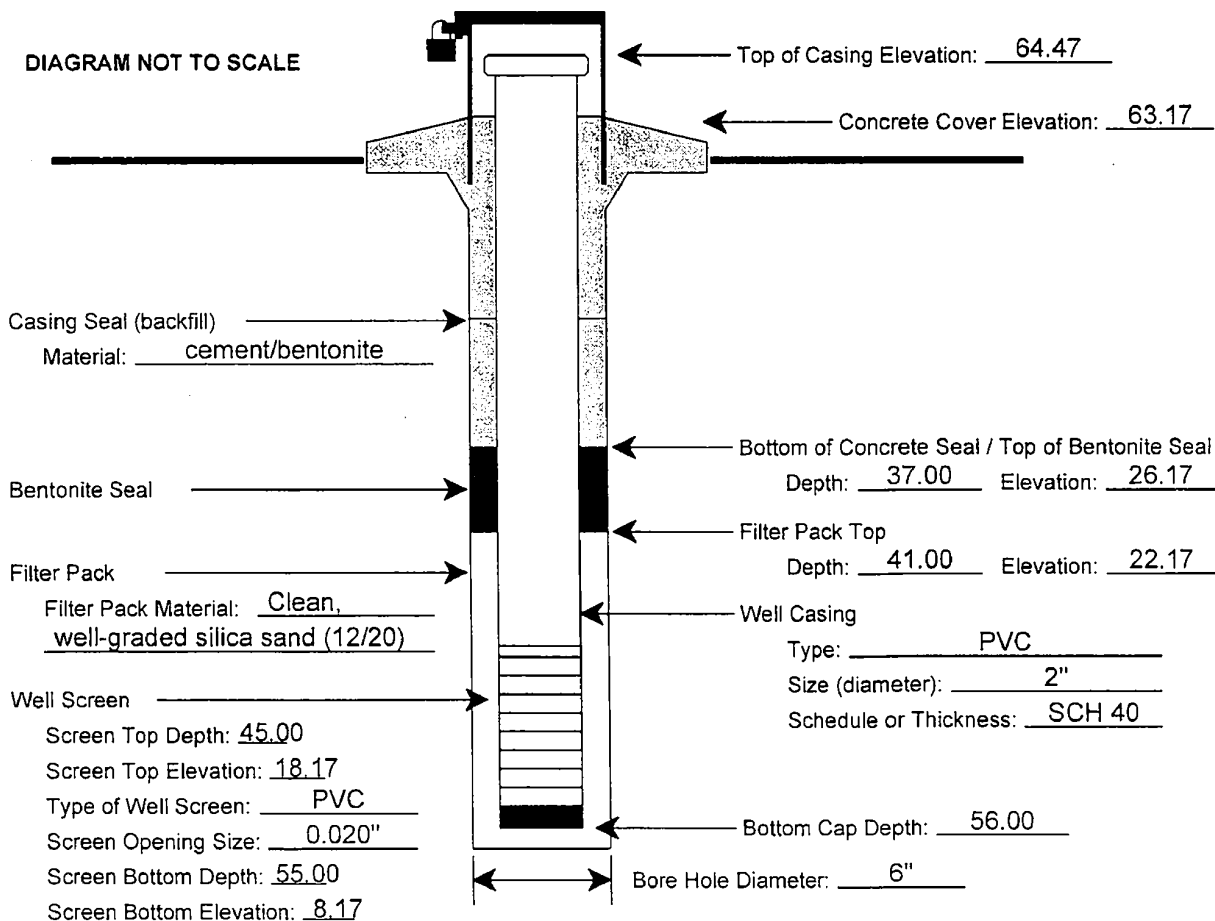
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2352U
Date of Well Development: 2/5/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 38 ft and 55 ft.
PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/16/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 19.49
Name of Geologic Formation(s) in which Well is completed: see boring log B-2352

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WSD Date: 4-3-08
Checked by: WSD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/16/08
Observation Well Northing: 13417263.65 US ft Easting: 2605470.56 US ft
Observation Well Location: Northeast Sector

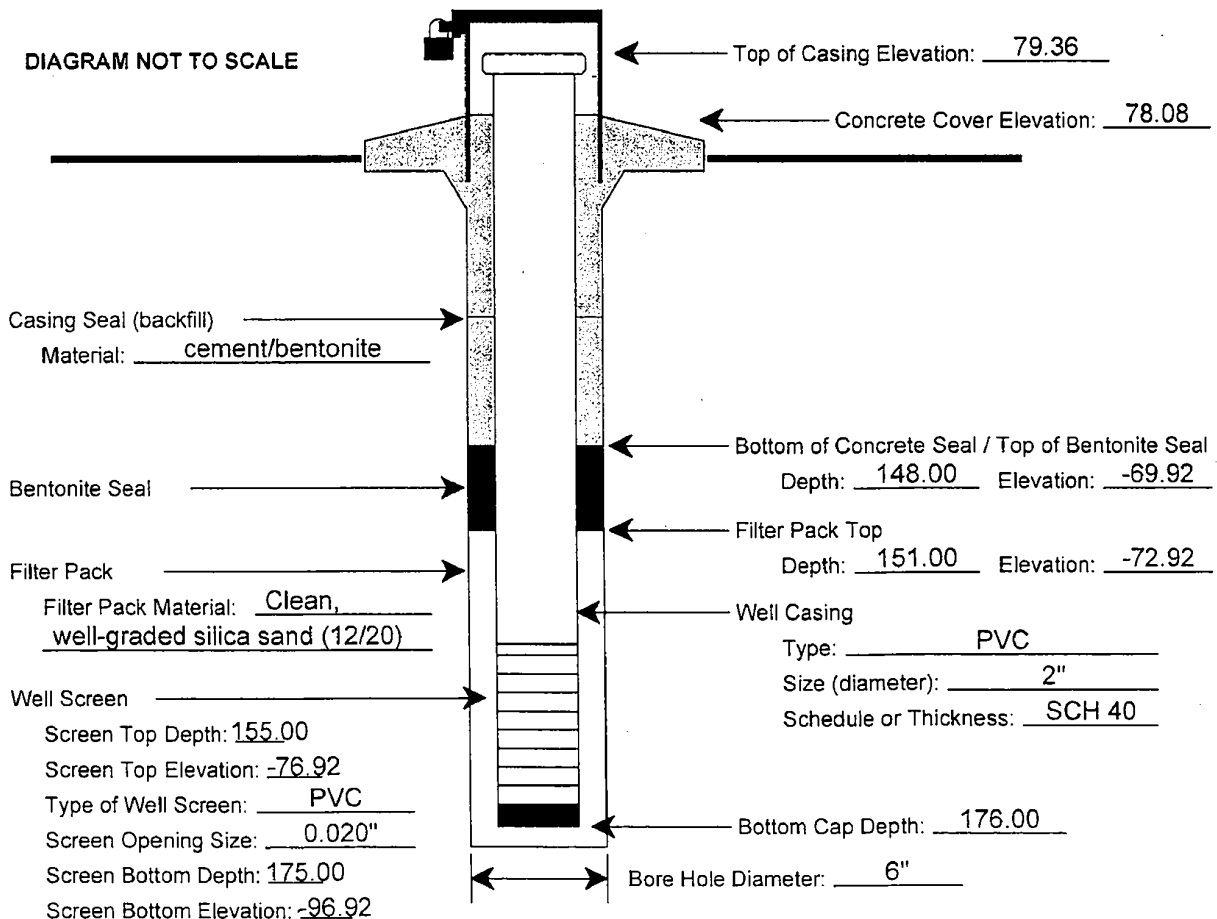
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2359L1
Date of Well Development: 1/16/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/4/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 24.86
Name of Geologic Formation(s) in which Well is completed: see boring log B-2359

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WJR Date: 4-3-08
Checked by: WBJD Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/16/08
Observation Well Northing: 13417259.76 US ft Easting: 2605433.37 US ft
Observation Well Location: Northeast Sector

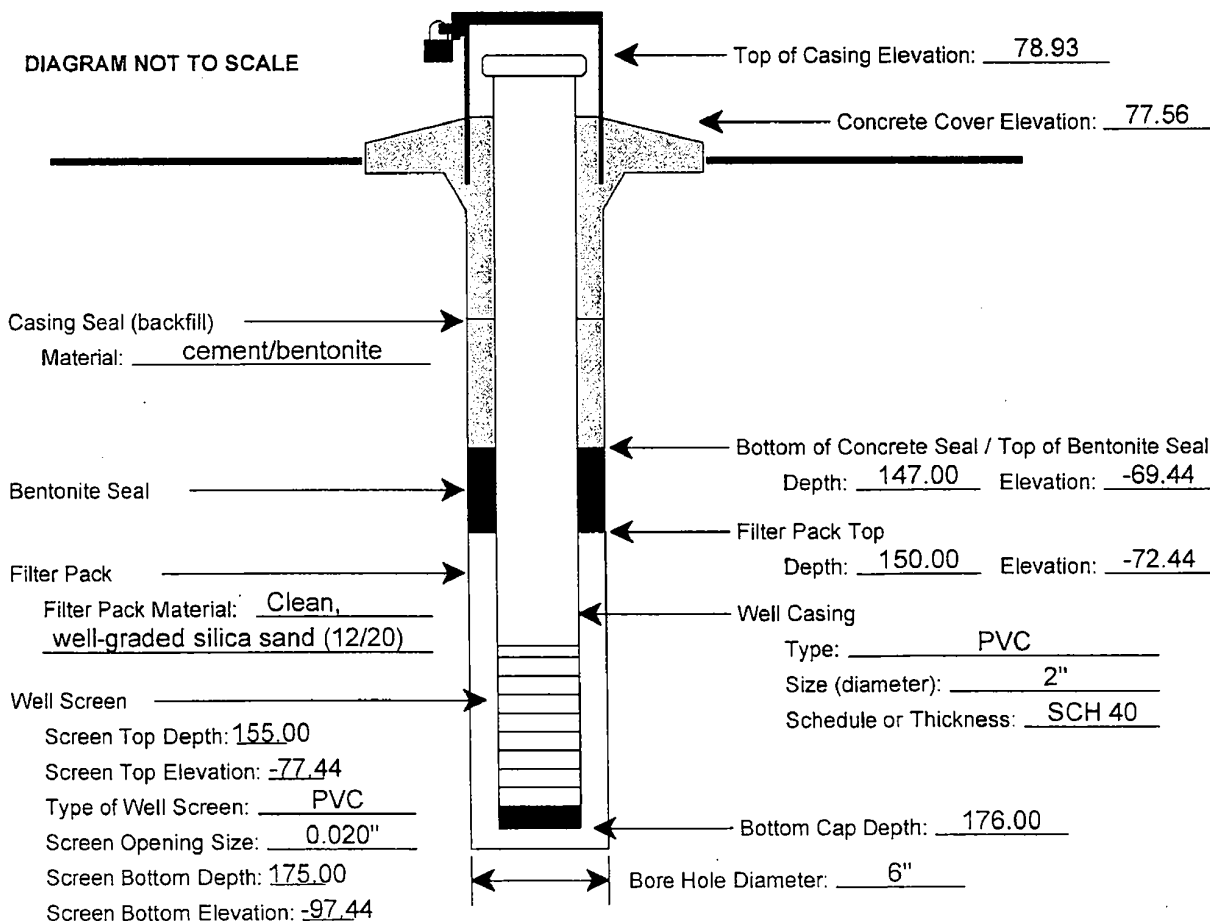
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2359L2
Date of Well Development: 1/16/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/4/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 24.85
Name of Geologic Formation(s) in which Well is completed: see boring log B-2359

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WFR Date: 4-3-08
Checked by: WFR Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/17/08
Observation Well Northing: 13417278.58 US ft Easting: 2605416.18 US ft
Observation Well Location: Northeast Sector

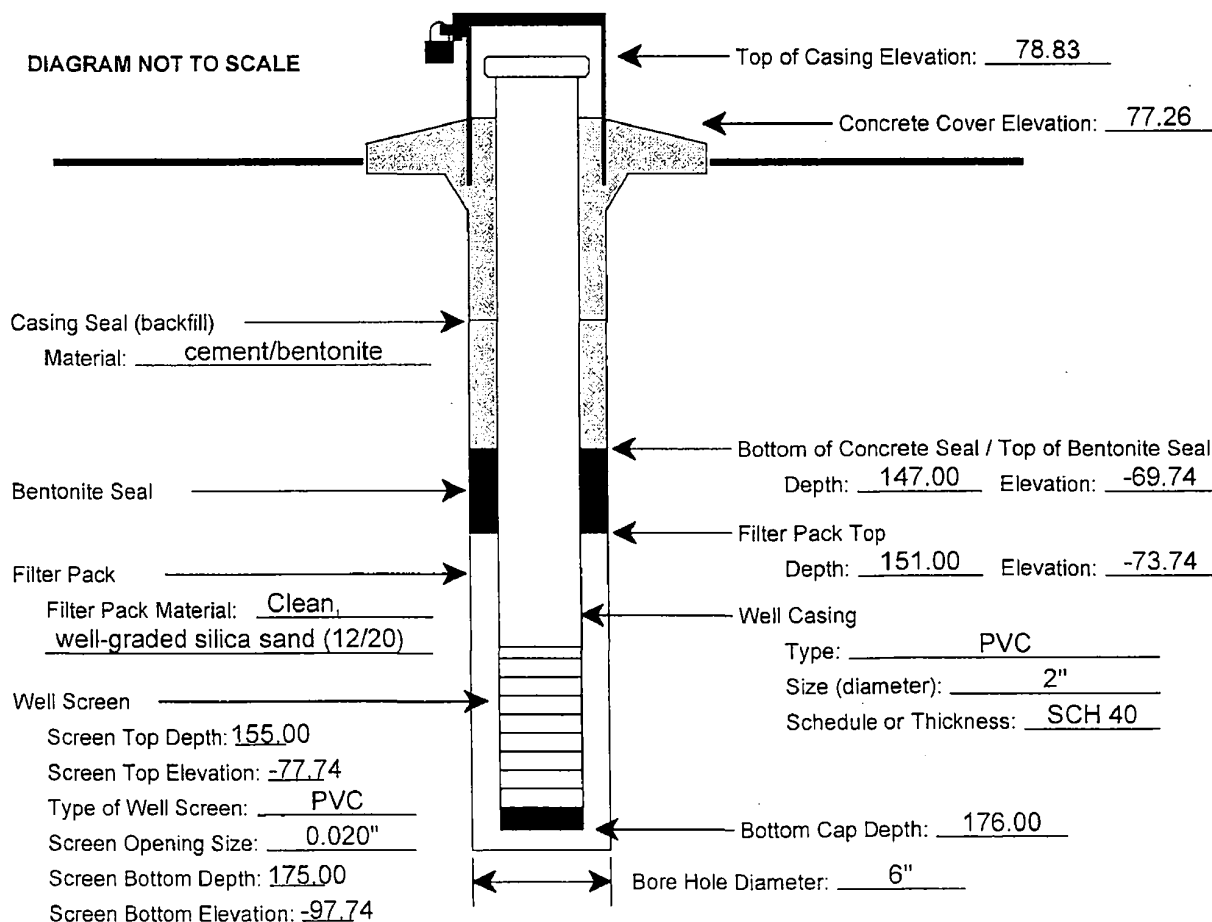
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2359L3
Date of Well Development: 1/17/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/4/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 25.01
Name of Geologic Formation(s) in which Well is completed: see boring log B-2359

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Observation Well Data Sheet

Prepared by: WGL Date: 4-3-08
Checked by: WGL Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/16/08
Observation Well Northing: 13417252.64 US ft Easting: 2605460.64 US ft
Observation Well Location: Northeast Sector

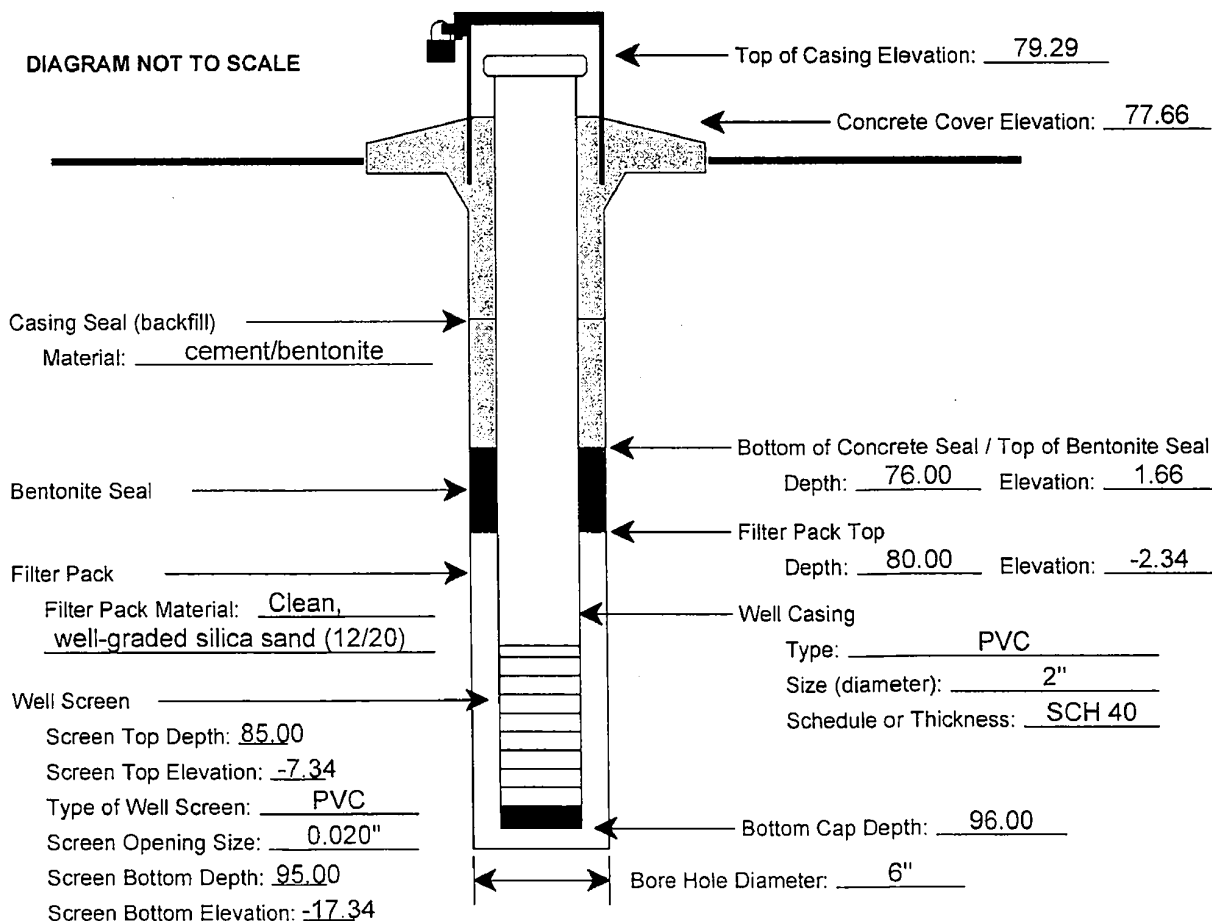
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: OW-2359U1
Date of Well Development: 1/16/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Observation well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/4/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 24.38
Name of Geologic Formation(s) in which Well is completed: see boring log B-2359

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Test Well Data Sheet

Prepared by: WJL Date: 4-3-08
Checked by: WJL Date: 4-3-08

Project Name: Exelon COI Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/30/08
Observation Well Northing: 13407428.59 US ft Easting: 2607105.51 US ft
Observation Well Location: Cooling Pond Area

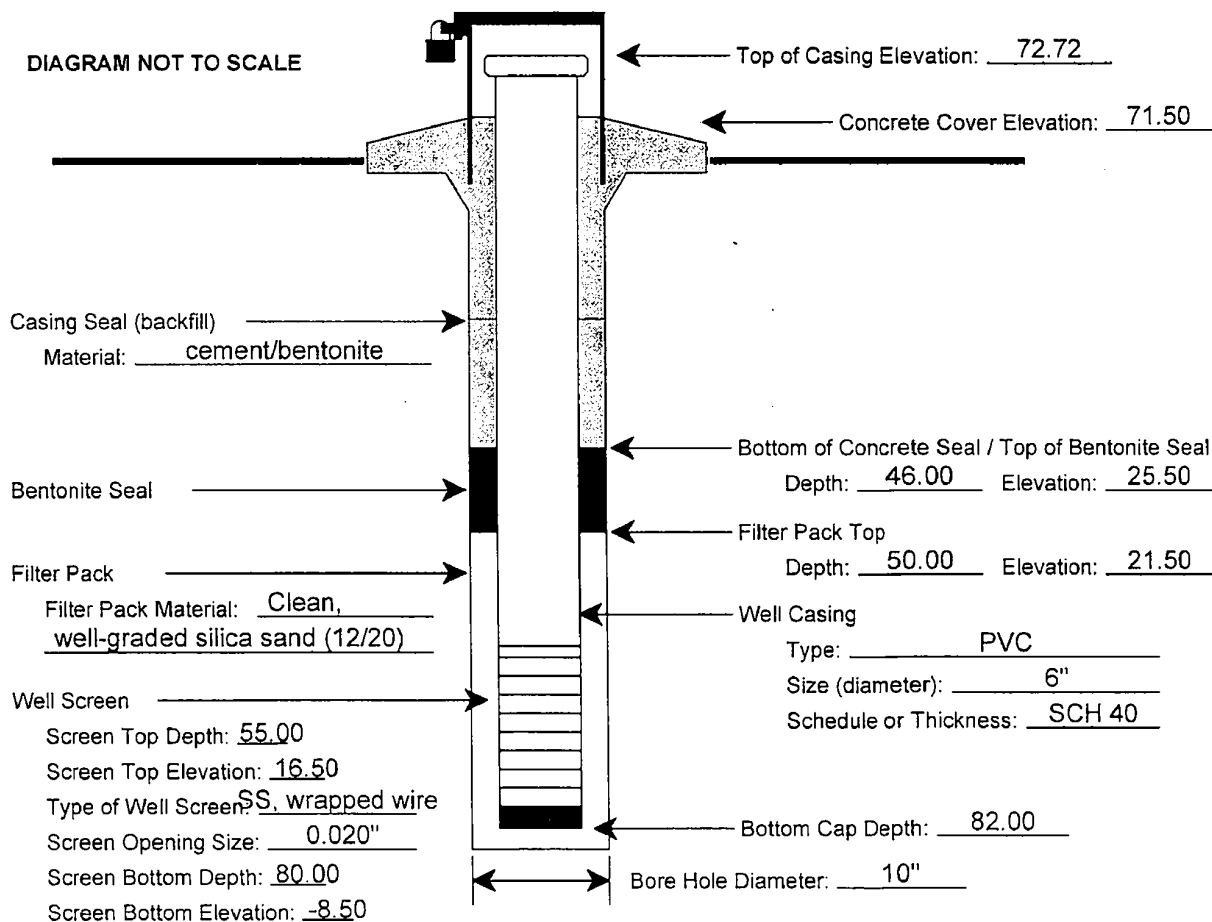
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: TW-2320U
Date of Well Development: 1/30/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

Two, stainless-steel centralizers installed at 46.6 ft and 80.5 ft.
Well screen machine-slotted by the manufacturer. Five feet of solid riser pipe installed from 65 ft to 70 ft.
Well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/20/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Jeff Moore
Static Water Level Elevation (with respect to NAVD88) after Well Development: 33.23
Name of Geologic Formation(s) in which Well is completed: see boring log B-2320

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Test Well Data Sheet

Prepared by: WS Date: 4-3-08
Checked by: WBD Date: 4-3-08

Project Name: Exelon COL Project (Victoria Site)
County: Victoria
Date of Observation Well Installation: 1/18/08
Observation Well Northing: 13417241.41 US ft Easting: 2605450.48 US ft
Observation Well Location: Northeast Sector

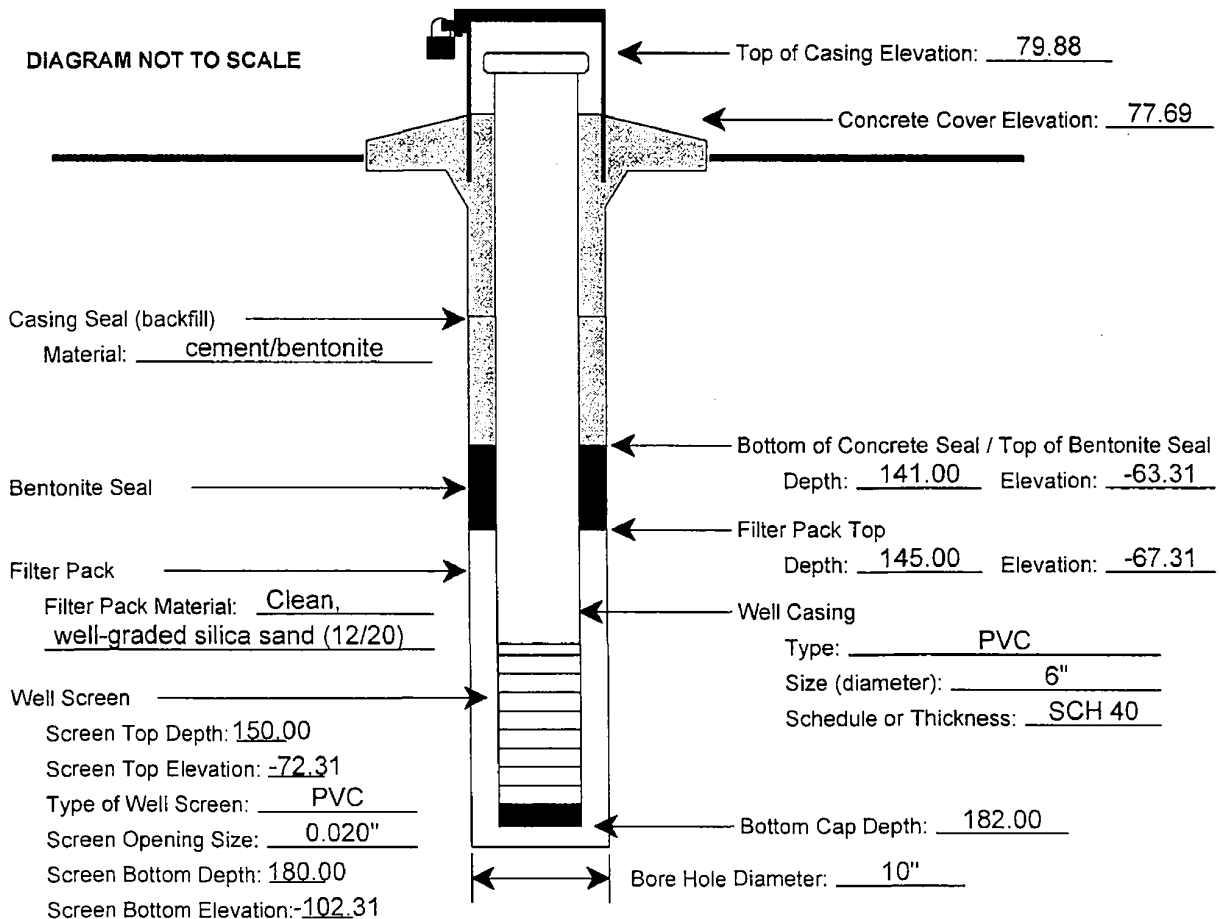
MACTEC Project No.: 6468-07-1777
Observation Well I.D.: TW-2359L
Date of Well Development: 1/18/08
Observation Well Driller
Name: BEST Drilling
License No.: 5036

NOTES:

PVC well screen machine-slotted by the manufacturer.
Well developed using air-lifting techniques by the well installation contractor.
Static water level measurement collected 2/4/2008.
Observation well installed in accordance with ASTM D 5092-04e1.
Upon completion of well installation, well contractor installed seep holes in the protective steel casing.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kyla R. Rudd
Static Water Level Elevation (with respect to NAVD88) after Well Development: 24.82
Name of Geologic Formation(s) in which Well is completed: see boring log B-2359

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x6"



Well Record Sampling Sheets



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2301 U		MACTEC JOB NUMBER:		6468-07-1777		
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		
MEASURED WELL DEPTH:		63.00 FT.		SCREENED INTERVAL:		50-60 FT.		
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:		1.50		CASING MATERIAL:		PVC		
SAMPLING DEVICE:		See below		TUBING TYPE:		Dedicated, Disposable Tubing		
MEASURING POINT:		Top of Casing		DEPTH TO GROUNDWATER:		33.08		
SAMPLING PERSONNEL:		K. Rudd		WATER-COLUMN HEIGHT:		29.92		
STEEL GUARD PIPE AROUND CASING:		<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO				
LOCKING CAP:		<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO				
PROTECTIVE POST/ABUTMENT:		<input type="checkbox"/> YES		<input checked="" type="checkbox"/> NO				
NONPOTABLE LABEL:		<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO				
ID PLATE:		<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO				
WELL INTEGRITY SATISFACTORY:		<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO				
WELL YIELD:		<input checked="" type="checkbox"/> HIGH		<input type="checkbox"/> MODERATE		<input type="checkbox"/> LOW		
COMMENTS		Monsoon submersible pump, YSI 650 S/N 04J16000 AA; HACH turbidity meter.						
		Pump intake set at 50 ft below top of casing						
		Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well						
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES
1	1	22.39	7.20	7.73	977	683	161.7	
15	0.4	22.45	7.22	7.91	923	77	149.7	
30	0.4	22.42	7.20	6.99	917	6	144.9	
32	0.4	22.48	7.18	7.03	914	5	146.2	
34	0.4	22.46	7.19	7.39	915	4	149.8	
35	0.4	22.61	7.20	7.29	921	4	151.5	
Sample collected at 15:30 for the following tests								
Qty. Container	Analytical Method							
	1 TDS - Method 160.1 / Alkalinity - Method 310.1							
	1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1							
	1 Cations - Method 200.7							
	1 Ammonia - Method 350.1							
	1 Kd - distribution coefficient							

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: lsh

Date: 4-9-08

Checked by: CHB

Date: 4/9/08



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2304 U		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/21/2008
MEASURED WELL DEPTH:		54.30 FT.		SCREENED INTERVAL:		40-50 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.30		CASING MATERIAL:		PVC	
SAMPLING DEVICE:				See below		TUBING TYPE:		Dedicated, Disposable Tubing	
MEASURING POINT:				Top of Casing		DEPTH TO GROUNDWATER:		34.00	
SAMPLING PERSONNEL:				K. Rudd		WATER-COLUMN HEIGHT:		20.30	
STEEL GUARD PIPE AROUND CASING:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
LOCKING CAP:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
PROTECTIVE POST/ABUTMENT:				<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO		
NONPOTABLE LABEL:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
ID PLATE:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL INTEGRITY SATISFACTORY:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL YIELD:				<input checked="" type="checkbox"/>	HIGH	<input type="checkbox"/>	MODERATE	<input type="checkbox"/>	LOW
COMMENTS		Monsoon submersible pump, YSI 650 S/N 04J16000 AA; HACH turbidity meter.							
		Pump intake set at 42 ft below top of casing due to initially high turbidity readings							
		Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well							
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	1	22.06	6.78	6.08	1706	>1000	136.8		
10	1	22.39	6.54	2.78	1980	71	81.2		
20	0.8	22.40	6.55	3.09	2024	29	72.1		
27	0.4	22.42	6.55	3.27	2034	7	77.4		
28	0.4	22.43	6.54	3.17	2040	6	78.4		
30	0.4	22.43	6.53	3.11	2043	6	81.2		
Sample collected at 12:15 for the following tests									
Qty. Container		Analytical Method							
1 TDS - Method 160.1 / Alkalinity - Method 310.1									
1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1									
1 Cations - Method 200.7									
1 Ammonia - Method 350.1									

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: WJ

Date: 4-9-08

Checked by: CHB

Date: 4-9-08



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2304 L		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/21/2008
MEASURED WELL DEPTH:		98.44 FT.		SCREENED INTERVAL:		85-95 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				0.85		CASING MATERIAL:		PVC	
SAMPLING DEVICE:				See below		TUBING TYPE:		Dedicated, Disposable Tubing	
MEASURING POINT:				Top of Casing		DEPTH TO GROUNDWATER:		42.30	
SAMPLING PERSONNEL:				J. Moore		WATER-COLUMN HEIGHT:		56.14	
STEEL GUARD PIPE AROUND CASING:				<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO			
LOCKING CAP:				<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO			
PROTECTIVE POST/ABUTMENT:				<input type="checkbox"/> YES		<input checked="" type="checkbox"/> NO			
NONPOTABLE LABEL:				<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO			
ID PLATE:				<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO			
WELL INTEGRITY SATISFACTORY:				<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO			
WELL YIELD:				<input checked="" type="checkbox"/> HIGH		<input type="checkbox"/> MODERATE		<input type="checkbox"/> LOW	
COMMENTS									
Monsoon submersible pump, YSI 650 S/N 01H1018 AB; HACH turbidity meter.									
Pump intake set at 60 ft below top of casing due to initially high turbidity readings									
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well									
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	1	22.46	7.29	5.87	1873	2	113.0		
20	1	23.02	6.74	7.98	2021	14	83.2		
45	1	23.04	6.73	7.33	1998	1	116.8		
47	0.4	23.05	6.73	7.13	1996	1	118.3		
49	0.4	23.05	6.73	7.10	1997	1	119.3		
Sample collected at 12:20 for the following tests									
Qty. Container Analytical Method									
1 TDS - Method 160.1 / Alkalinity - Method 310.1									
1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1									
1 Cations - Method 200.7									
1 Ammonia - Method 350.1									

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: WJW Date: 4-9-08
Checked by: CHB Date: 4-9-08



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2307 U		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/20/2008
MEASURED WELL DEPTH:		68.11 FT.		SCREENED INTERVAL:		55-65 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.52		CASING MATERIAL:		PVC	
SAMPLING DEVICE:		See below		TUBING TYPE:		Dedicated, Disposable Tubing			
MEASURING POINT:		Top of Casing		DEPTH TO GROUNDWATER:		45.95			
SAMPLING PERSONNEL:		J. Moore		WATER-COLUMN HEIGHT:		22.16			
STEEL GUARD PIPE AROUND CASING:		<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO				
LOCKING CAP:		<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO				
PROTECTIVE POST/ABUTMENT:		<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO				
NONPOTABLE LABEL:		<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO				
ID PLATE:		<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO				
WELL INTEGRITY SATISFACTORY:		<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO				
WELL YIELD:		<input checked="" type="checkbox"/>	HIGH	<input type="checkbox"/>	MODERATE	<input type="checkbox"/>	LOW		
COMMENTS		Monsoon submersible pump, YSI 650 S/N 01H1018 AB; HACH turbidity meter.							
		Pump intake set at 55 ft below top of casing due to initially high turbidity readings							
		Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well							
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	1	23.08	7.26	4.18	1127	501	96.3		
20	0.8	23.11	7.12	4.79	1106	22	58.4		
25	0.8	23.11	7.12	4.75	1107	6	56.6		
30	0.4	23.10	7.20	4.78	1106	5	56.8		
Sample collected at 11:00 for the following tests									
Qty. Container		Analytical Method							
1 TDS - Method 160.1 / Alkalinity - Method 310.1									
1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1									
1 Cations - Method 200.7									
1 Ammonia - Method 350.1									
1 Kd - distribution coefficient									

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: LSH

Date: 4-9-08

Checked by: CHB

Date: 4/9/08



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2307 L		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/20/2008
MEASURED WELL DEPTH:		113.27 FT.		SCREENED INTERVAL:		100-110 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.65		CASING MATERIAL:		PVC	
SAMPLING DEVICE:		See below		TUBING TYPE:		Dedicated, Disposable Tubing			
MEASURING POINT:		Top of Casing		DEPTH TO GROUNDWATER:		51.75			
SAMPLING PERSONNEL:		J. Moore		WATER-COLUMN HEIGHT:		61.52			
STEEL GUARD PIPE AROUND CASING:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
LOCKING CAP:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
PROTECTIVE POST/ABUTMENT:				<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO		
NONPOTABLE LABEL:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
ID PLATE:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL INTEGRITY SATISFACTORY:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL YIELD:				<input checked="" type="checkbox"/>	HIGH	<input type="checkbox"/>	MODERATE	<input type="checkbox"/>	LOW
COMMENTS		Monsoon submersible pump, YSI 650 S/N 01H1018 AB; HACH turbidity meter.							
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well									
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	2	23.14	7.07	4.79	1053	18	109.0		
25	1	23.14	6.89	2.89	1055	10	138.1		
40	1	23.14	6.89	2.96	1054	5	142.4		
43	0.25	23.14	6.89	2.90	1054	4	143.1		
46	0.25	22.92	6.91	2.83	1054	4	144.9		
50	0.2	23.17	6.91	2.87	1053	3	152.2		
Sample collected at 11:15 for the following tests									
Qty. Container		Analytical Method							
		1 TDS - Method 160.1 / Alkalinity - Method 310.1							
		1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1							
		1 Cations - Method 200.7							
		1 Ammonia - Method 350.1							
		1 Kd - distribution coefficient							

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: WJ

Date: 4.9.08

Checked by: CHB

Date: 4/9/08



MACTEC

MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2321 U		MACTEC JOB NUMBER:		6468-07-1777				
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/19/2008	
MEASURED WELL DEPTH:		113.17 FT.		SCREENED INTERVAL:		100-110 FT.		WELL DIAMETER:		2 IN.
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.48		CASING MATERIAL:			PVC	
SAMPLING DEVICE:				See below		TUBING TYPE:			Dedicated, Disposable Tubing	
MEASURING POINT:				Top of Casing		DEPTH TO GROUNDWATER:			51.75	
SAMPLING PERSONNEL:				K. Rudd		WATER-COLUMN HEIGHT:			61.42	
STEEL GUARD PIPE AROUND CASING:				<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO
LOCKING CAP:				<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO
PROTECTIVE POST/ABUTMENT:				<input type="checkbox"/>		YES		<input checked="" type="checkbox"/>		NO
NONPOTABLE LABEL:				<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO
ID PLATE:				<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO
WELL INTEGRITY SATISFACTORY:				<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO
WELL YIELD:				<input checked="" type="checkbox"/>		HIGH		<input type="checkbox"/>		MODERATE
<input type="checkbox"/>								<input type="checkbox"/>		LOW
COMMENTS		Monsoon submersible pump, YSI 650 S/N 04J16000 AA; HACH turbidity meter.								
		Pump intake set at 75 ft below top of casing due to initially high turbidity readings								
		Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well								
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm ²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES		
1	1	23.50	6.96	4.60	1729	10	130.9			
20	0.8	23.51	6.85	6.20	1695	14	113.9			
33	0.4	23.51	6.87	6.20	1691	3	104.0			
48	0.4	23.52	6.86	5.98	1688	1	108.6			
49	0.4	23.51	6.86	5.90	1687	1	109.4			
50	0.4	23.52	6.85	5.88	1687	1	109.9			
Sample collected at 15:35 for the following tests										
Qty. Container		Analytical Method								
1 TDS - Method 160.1 / Alkalinity - Method 310.1										
1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1										
1 Cations - Method 200.7										
1 Ammonia - Method 350.1										

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: LSK

Date: 4-9-08

Checked by: C4B

Date: 4-9-08



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2321 L		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/19/2008
MEASURED WELL DEPTH:		153.06 FT.		SCREENED INTERVAL:		140-150 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.55		CASING MATERIAL:		PVC	
SAMPLING DEVICE:		See below		TUBING TYPE:		Dedicated, Disposable Tubing			
MEASURING POINT:		Top of Casing		DEPTH TO GROUNDWATER:		51.77			
SAMPLING PERSONNEL:		J. Moore		WATER-COLUMN HEIGHT:		101.29			
STEEL GUARD PIPE AROUND CASING:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
LOCKING CAP:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
PROTECTIVE POST/ABUTMENT:				<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO		
NONPOTABLE LABEL:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
ID PLATE:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL INTEGRITY SATISFACTORY:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL YIELD:				<input checked="" type="checkbox"/>	HIGH	<input type="checkbox"/>	MODERATE	<input type="checkbox"/>	LOW
COMMENTS									
Monsoon submersible pump, YSI 650 S/N 01H1018 AB; HACH turbidity meter.									
Pump intake set at 75 ft below top of casing due to initially high turbidity readings									
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well									
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	1	23.77	6.96	5.10	3553	1	68.6		
20	0.9	23.92	6.64	2.61	3777	>1000	135.1		
45	0.9	23.93	6.65	3.09	3815	787	77.5		
65	0.4	23.90	6.60	4.54	3818	324	82.9		
70	0.4	23.96	6.59	4.57	3822	307	96.0		
75	0.4	23.91	6.58	4.68	3819	315	97.4		
80	0.4	23.91	6.58	4.70	3819	320	97.5		
82	0.4	23.90	6.58	4.72	3819	312	97.7		
Sample collected at 15:30 for the following tests									
Qty. Container		Analytical Method							
		1 TDS - Method 160.1 / Alkalinity - Method 310.1							
		1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1							
		1 Cations - Method 200.7							
		1 Ammonia - Method 350.1							

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: WSE

Date: 4-9-08

Checked by: CHB

Date: 4-9-08



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2324 U		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/20/2008
MEASURED WELL DEPTH:		47.98 FT.		SCREENED INTERVAL:		35-45 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.50		CASING MATERIAL:		PVC	
SAMPLING DEVICE:		See below		TUBING TYPE:		Dedicated, Disposable Tubing			
MEASURING POINT:		Top of Casing		DEPTH TO GROUNDWATER:		11.26			
SAMPLING PERSONNEL:		K. Rudd		WATER-COLUMN HEIGHT:		36.72			
STEEL GUARD PIPE AROUND CASING:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
LOCKING CAP:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
PROTECTIVE POST/ABUTMENT:				<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO		
NONPOTABLE LABEL:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
ID PLATE:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL INTEGRITY SATISFACTORY:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL YIELD:				<input checked="" type="checkbox"/>	HIGH	<input type="checkbox"/>	MODERATE	<input type="checkbox"/>	LOW
COMMENTS		Monsoon submersible pump, YSI 650 S/N 04J16000 AA; HACH turbidity meter.							
		Pump intake set at 25 ft below top of casing due to initially high turbidity readings							
		Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well							
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	1	22.27	6.95	7.39	1032	145	109.3		
10	1	22.25	6.83	6.61	1316	18	114.5		
23	1	22.24	6.81	6.61	1292	3	118.7		
36	0.4	22.14	6.84	6.19	1280	0	111.2		
38	0.4	22.14	6.84	6.21	1279	0	111.8		
39	0.4	22.14	6.83	6.22	1281	0	110.9		
Sample collected at 14:00 for the following tests									
Qty. Container Analytical Method									
1 TDS - Method 160.1 / Alkalinity - Method 310.1									
1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1									
1 Cations - Method 200.7									
1 Ammonia - Method 350.1									

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: WV

Date: 4-9-08

Checked by: CHB

Date: 4-9-08



MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2348 U		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/19/2008
MEASURED WELL DEPTH:		83.09 FT.		SCREENED INTERVAL:		70-80 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.56		CASING MATERIAL:		PVC	
SAMPLING DEVICE:		See below		TUBING TYPE:		Dedicated, Disposable Tubing			
MEASURING POINT:		Top of Casing		DEPTH TO GROUNDWATER:		39.18			
SAMPLING PERSONNEL:		J. Moore		WATER-COLUMN HEIGHT:		43.91			
STEEL GUARD PIPE AROUND CASING:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
LOCKING CAP:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
PROTECTIVE POST/ABUTMENT:				<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO		
NONPOTABLE LABEL:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
ID PLATE:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL INTEGRITY SATISFACTORY:				<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
WELL YIELD:				<input checked="" type="checkbox"/>	HIGH	<input type="checkbox"/>	MODERATE	<input type="checkbox"/>	LOW
COMMENTS		Monsoon submersible pump, YSI 650 S/N 01H1018 AB; HACH turbidity meter.							
		Pump intake set at 60 ft below top of casing due to initially high turbidity readings							
		Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well							
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	1	21.87	7.07	8.30	2342	2	161.5		
20	1	22.67	6.87	5.59	2413	2	148.3		
30	1	22.69	6.83	5.18	2417	1	157.0		
40	0.4	22.60	6.82	4.97	2414	1	162.5		
42	0.4	22.67	6.82	5.08	2412	1	166.8		
43	0.4	22.67	6.82	5.10	2414	1	164.3		
Sample collected at 11:55 for the following tests									
Qty. Container		Analytical Method							
1 TDS - Method 160.1 / Alkalinity - Method 310.1									
1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1									
1 Cations - Method 200.7									
1 Ammonia - Method 350.1									

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: hsk

Date: 4-9-08

Checked by: C4B

Date: 4-9-08

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID: OW-2352 L

MACTEC JOB NUMBER: 6468-07-1777

PROJECT: **Exelon COL Project**

SITE: Victoria, Texas

DATE: 2/19/2008

MEASURED WELL DEPTH: 84.9* FT. SCREENED INTERVAL: 80-90 FT. WELL DIAMETER: 2 IN.

HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:	1.27	CASING MATERIAL:	PVC
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SAMPLING DEVICE:	See below	TUBING TYPE:	Dedicated, Disposable Tubing
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MEASURING POINT:	Top of Casing	DEPTH TO GROUNDWATER:	45.26
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SAMPLING PERSONNEL:	J. Moore	WATER-COLUMN HEIGHT:	39.64
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STEEL GUARD PIPE AROUND CASING:	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
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LOCKING CAP:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
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PROTECTIVE POST/ABUTMENT:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
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NONPOTABLE LABEL:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
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ID PLATE:	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
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WELL INTEGRITY SATISFACTORY:	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
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WELL YIELD:	<input checked="" type="checkbox"/> HIGH	<input type="checkbox"/> MODERATE	<input type="checkbox"/> LOW
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COMMENTS Monsoon submersible pump, YSI 650 S/N 01H1018 AB; HACH turbidity meter.

Pump intake set at 80 ft below top of casing

Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well

* Well depth greater than measured depth due to sediment in well

[illegible]

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: *lzx*

Date: 4-1-07

Checked by: QHB

Date: 4-9-08



MACTEC

MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-2359 U1		MACTEC JOB NUMBER:		6468-07-1777			
PROJECT:		Exelon COL Project		SITE:		Victoria, Texas		DATE:	2/20/2008
MEASURED WELL DEPTH:		98.05 FT.		SCREENED INTERVAL:		85-95 FT.		WELL DIAMETER: 2 IN.	
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:				1.63		CASING MATERIAL:		PVC	
SAMPLING DEVICE:		See below		TUBING TYPE:		Dedicated, Disposable Tubing			
MEASURING POINT:		Top of Casing		DEPTH TO GROUNDWATER:		55.00			
SAMPLING PERSONNEL:		J. Moore		WATER-COLUMN HEIGHT:		43.05			
STEEL GUARD PIPE AROUND CASING:		<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO	
LOCKING CAP:		<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO	
PROTECTIVE POST/ABUTMENT:		<input type="checkbox"/>		YES		<input checked="" type="checkbox"/>		NO	
NONPOTABLE LABEL:		<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO	
ID PLATE:		<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO	
WELL INTEGRITY SATISFACTORY:		<input checked="" type="checkbox"/>		YES		<input type="checkbox"/>		NO	
WELL YIELD:		<input checked="" type="checkbox"/>		HIGH		<input type="checkbox"/>		MODERATE <input type="checkbox"/> LOW	
COMMENTS		Monsoon submersible pump, YSI 650 S/N 01H1018 AB; HACH turbidity meter.							
		Pump intake set at 80 ft below top of casing due to initially high turbidity readings							
		Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well							
PURGE VOLUME (gallons)	PURGE RATE (gpm)	TEMP (°C)	PH (S.U.)	D.O. (mg/L)	SP. COND. (µS/cm²)	TURBIDITY (NTU)	O.R.P. (± mV)	NOTES	
1	1	22.86	7.15	6.23	1192	4	204.0		
15	1	23.39	6.88	5.58	1194	0	53.7		
35	0.4	23.28	6.87	5.54	1191	4	27.7		
40	0.4	23.27	6.87	5.57	1192	2	27.3		
42	0.4	23.29	6.87	5.55	1192	0	27.3		
Sample collected at 09:15 for the following tests									
Qty. Container Analytical Method									
1 TDS - Method 160.1 / Alkalinity - Method 310.1									
1 Anions - Method 300.0 / Nitrate/Nitrite - Method 353.1									
1 Cations - Method 200.7									
1 Ammonia - Method 350.1									
2 Kd - distribution coefficient									

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: WSE

Date: 2-19-08

Checked by: CHB

Date: 4/9/08

Laboratory Test Reports



**DOCUMENTATION OF TECHNICAL REVIEW
SUBCONTRACTOR WORK PRODUCT**

Project Name: Exelon COL Project

Project Number: 6468-07-1777

Project Manager: Scott Auger

Project Principal: Kathryn White

The report described below has been prepared by the named subcontractor retained in accordance with the MACTEC QAPD. The work and report have been reviewed by a MACTEC technically qualified person. Comments on the work or report, if any, have been satisfactorily addressed by the subcontractor. The attached report is approved in accordance with section QS-7 of MACTEC's QAPD.

The information and data contained in the attached report are hereby released by MACTEC for project use. Based on the presence of ammonia in the method blank associated with samples OW-2301U and OW-2301L, MACTEC recommends using these data as non-detect values at the Reporting Limit of 50 µg/L.

REPORT : Analytical Report Lot #: F8B210166

SUBCONTRACTOR: TestAmerica, Earth City, MO

DATE OF ACCEPTANCE : 3/17/2008

TECHNICAL REVIEWER: William S. Grimes

PROJECT PRINCIPAL: Kathryn A. White



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 6468071777

EXcelon Victoria TEXAS COL

Lot #: F8B210166

Kathryn White

MACTEC Engineering & Consultin
3301 Atlantic Ave
Raleigh, NC 27604

TESTAMERICA LABORATORIES, INC.



Ivan Vania
Project Manager

March 10, 2008

Case Narrative
LOT NUMBER: F8B210166

This report contains the analytical results for the six samples received under chain of custody by TestAmerica St. Louis on February 19, 2008. These samples are associated with your EXcelon Victoria TEXAS COL project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Due to limitations of the data reporting system method 6020 is reported for metals analysis; however, 6020C was used to perform the analysis.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

ICP-MS (SW846-6020)

Batches 8052202, 8039204, and 8045132:

The MS (MSD) recoveries for batches 8052202 - silicon, 8039204- iron, and 8045132- barium, chromium and lead are outside the established QC limits. The analyte concentrations in the original sample are greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8B210166 (1): OW-2169U

F8B210166 (2): OW-2169L

F8B210166 (3): OW-2269U

F8B210166 (4): OW-2269L

F8B210166 (5): OW-2301U

F8B210166 (6): OW-2301L

Batches 8052202 and 8045132:

The MS (MSD) recoveries for batches 8052202 (calcium) and 8045132 (silver) are outside the established QC limits. The RPD is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8B210166 (1): OW-2169U
F8B210166 (2): OW-2169L
F8B210166 (3): OW-2269U
F8B210166 (4): OW-2269L
F8B210166 (5): OW-2301U
F8B210166 (6): OW-2301L

Batches 8052202 and 8045132:

The samples were analyzed at a dilution due to high concentrations of target analytes. The reporting limits were adjusted for the dilution since no analysis at a lesser dilution was performed.

Affected Samples:

F8B210166 (1): OW-2169U
F8B210166 (2): OW-2169L
F8B210166 (3): OW-2269U
F8B210166 (4): OW-2269L
F8B210166 (5): OW-2301U
F8B210166 (6): OW-2301L

Anions (MCAWW 300.0A)

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Nitrite in batch 8052287 is attributed to matrix interference.

Affected Samples:

F8B210166 (1): OW-2169U
F8B210166 (2): OW-2169L
F8B210166 (3): OW-2269U
F8B210166 (4): OW-2269L
F8B210166 (5): OW-2301U
F8B210166 (6): OW-2301L

Alkalinity (MCAWW 310.1)

Batch 8058071 for total alkalinity the matrix spike failed due to a 5x dilution.

Affected Samples:

F8B210166 (4): OW-2269L

There were no other nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F8B210166

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity	MCAWW 310.1	MCAWW 310.1
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Bromide	MCAWW 300.0A	MCAWW 300.0A
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Ion Balance (%Difference)	SM18 1030F & AP	SM18 1030F & AP
ICP-MS (6020)	SW846 6020	
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM18 "Standard Methods for the Examination of Water and
Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F8B210166

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KHE9E	001	OW-2169U	02/18/08	10:30
KHE9L	002	OW-2169L	02/18/08	10:20
KHE9N	003	OW-2269U	02/18/08	12:30
KHE9P	004	OW-2269L	02/18/08	14:00
KHE9R	005	OW-2301U	02/18/08	15:30
KHE9T	006	OW-2301L	02/18/08	15:40

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2169U

TOTAL Metals

Lot-Sample #...: F8B210166-001

Matrix.....: WATER

Date Sampled...: 02/18/08 10:30 Date Received...: 02/19/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	53200 N	2000	ug/L	SW846 6020	02/21-02/25/08	KHE9E1AN
		Dilution Factor: 20		Analysis Time...: 16:43		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE9E1AP
		Dilution Factor: 10		Analysis Time...: 21:50		
Potassium	2620	1000	ug/L	SW846 6020	02/21-02/23/08	KHE9E1AQ
		Dilution Factor: 10		Analysis Time...: 21:50		
Magnesium	14000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9E1AR
		Dilution Factor: 10		Analysis Time...: 21:50		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHE9E1AT
		Dilution Factor: 10		Analysis Time...: 21:50		
Sodium	194000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9E1AU
		Dilution Factor: 10		Analysis Time...: 21:50		
Silicon	20700 N*	5000	ug/L	SW846 6020	02/21-02/25/08	KHE9E1AV
		Dilution Factor: 20		Analysis Time...: 16:43		
Prep Batch #...: 8067296						
Silica	44300	250	ug/L	SW846 6020	03/07/08	KHE9E1A7
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2169U

General Chemistry

Lot-Sample #...: F8B210166-001 Work Order #...: KHE9E Matrix.....: WATER
 Date Sampled...: 02/18/08 10:30 Date Received...: 02/19/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	397	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
				Dilution Factor: 1	Analysis Time...: 00:00	
Bromide	0.26	0.25	mg/L	MCAWW 300.0A	02/19/08	8052282
				Dilution Factor: 1	Analysis Time...: 01:16	
Carbonate Alkalinity ND		5.0	mg/L	MCAWW 310.1	02/22/08	8053135
				Dilution Factor: 1	Analysis Time...: 00:00	
Chloride	77.0	10.0	mg/L	MCAWW 300.0A	02/19/08	8052283
				Dilution Factor: 50	Analysis Time...: 03:04	
Fluoride	1.1	0.10	mg/L	MCAWW 300.0A	02/19/08	8052284
				Dilution Factor: 1	Analysis Time...: 01:16	
Ion Balance Difference	2.3	0.10	%	SML8 1030F & API	02/27/08	8058113
				Dilution Factor: 1	Analysis Time...: 00:00	
Nitrate	0.53	0.020	mg/L	MCAWW 300.0A	02/19/08	8052286
				Dilution Factor: 1	Analysis Time...: 01:16	
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/19/08	8052287
				Dilution Factor: 1	Analysis Time...: 01:16	
Nitrogen, as Ammonia 22.7 B,J		50.0	ug/L	MCAWW 350.1	02/22/08	8053421
				Dilution Factor: 1	Analysis Time...: 00:00	
Sulfate	74.6	5.0	mg/L	MCAWW 300.0A	02/19/08	8052285
				Dilution Factor: 10	Analysis Time...: 02:50	
Total Alkalinity	397	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
				Dilution Factor: 1	Analysis Time...: 00:00	
Total Dissolved Solids	642	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
				Dilution Factor: 1	Analysis Time...: 00:00	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2169L

TOTAL Metals

Lot-Sample #...: F8B210166-002

Matrix.....: WATER

Date Sampled...: 02/18/08 10:20 Date Received...: 02/19/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	65500 N	2000	ug/L	SW846 6020	02/21-02/25/08	KHE9L1AN
		Dilution Factor: 20		Analysis Time...: 16:47		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE9L1AP
		Dilution Factor: 10		Analysis Time...: 21:54		
Potassium	2680	1000	ug/L	SW846 6020	02/21-02/23/08	KHE9L1AQ
		Dilution Factor: 10		Analysis Time...: 21:54		
Magnesium	16000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9L1AR
		Dilution Factor: 10		Analysis Time...: 21:54		
Manganese	9.8 B	20	ug/L	SW846 6020	02/21-02/23/08	KHE9L1AT
		Dilution Factor: 10		Analysis Time...: 21:54		
Sodium	218000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9L1AU
		Dilution Factor: 10		Analysis Time...: 21:54		
Silicon	21100 N*	5000	ug/L	SW846 6020	02/21-02/25/08	KHE9L1AV
		Dilution Factor: 20		Analysis Time...: 16:47		
Prep Batch #...: 8067296						
Silica	45200	250	ug/L	SW846 6020	03/07/08	KHE9L1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2169L

General Chemistry

Lot-Sample #...: F8B210166-002 Work Order #...: KHE9L Matrix.....: WATER
 Date Sampled...: 02/18/08 10:20 Date Received...: 02/19/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	398	10.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 2		Analysis Time...: 00:00		
Bromide	0.36	0.25	mg/L	MCAWW 300.0A	02/19/08	8052282
		Dilution Factor: 1		Analysis Time...: 01:03		
Carbonate Alkalinity	ND	10.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 2		Analysis Time...: 00:00		
Chloride	119	10.0	mg/L	MCAWW 300.0A	02/19/08	8052283
		Dilution Factor: 50		Analysis Time...: 02:37		
Fluoride	1.1	0.10	mg/L	MCAWW 300.0A	02/19/08	8052284
		Dilution Factor: 1		Analysis Time...: 01:03		
Ion Balance Difference	0.78	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.47	0.020	mg/L	MCAWW 300.0A	02/19/08	8052286
		Dilution Factor: 1		Analysis Time...: 01:03		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/19/08	8052287
		Dilution Factor: 1		Analysis Time...: 01:03		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	122	5.0	mg/L	MCAWW 300.0A	02/19/08	8052285
		Dilution Factor: 10		Analysis Time...: 02:24		
Total Alkalinity	398	10.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 2		Analysis Time...: 00:00		
Total Dissolved Solids	780	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2269U

TOTAL Metals

Lot-Sample #...: F8B210166-003

Matrix.....: WATER

Date Sampled...: 02/18/08 12:30 Date Received...: 02/19/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	116000 N	1000	ug/L	SW846 6020	02/21-02/26/08	KHE9N1AN
		Dilution Factor: 10		Analysis Time...: 13:30		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE9N1AP
		Dilution Factor: 10		Analysis Time...: 21:57		
Potassium	4050	1000	ug/L	SW846 6020	02/21-02/23/08	KHE9N1AQ
		Dilution Factor: 10		Analysis Time...: 21:57		
Magnesium	17800	500	ug/L	SW846 6020	02/21-02/23/08	KHE9N1AR
		Dilution Factor: 10		Analysis Time...: 21:57		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHE9N1AT
		Dilution Factor: 10		Analysis Time...: 21:57		
Sodium	181000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9N1AU
		Dilution Factor: 10		Analysis Time...: 21:57		
Silicon	16800 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHE9N1AV
		Dilution Factor: 10		Analysis Time...: 21:57		
Prep Batch #...: 8067296						
Silica	36000	250	ug/L	SW846 6020	03/07/08	KHE9N1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2269U

General Chemistry

Lot-Sample #...: F8B210166-003 Work Order #...: KHE9N Matrix.....: WATER
 Date Sampled...: 02/18/08 12:30 Date Received...: 02/19/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	339	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
				Dilution Factor: 1	Analysis Time...: 00:00	
Bromide	0.72	0.25	mg/L	MCAWW 300.0A	02/19/08	8052282
				Dilution Factor: 1	Analysis Time...: 01:43	
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
				Dilution Factor: 1	Analysis Time...: 00:00	
Chloride	224	20.0	mg/L	MCAWW 300.0A	02/19/08	8052283
				Dilution Factor: 100	Analysis Time...: 04:24	
Fluoride	0.45	0.10	mg/L	MCAWW 300.0A	02/19/08	8052284
				Dilution Factor: 1	Analysis Time...: 01:43	
Ion Balance Difference	0.080 B	0.10	%	SML8 1030F & API	02/27/08	8058113
				Dilution Factor: 1	Analysis Time...: 00:00	
Nitrate	0.59	0.020	mg/L	MCAWW 300.0A	02/19/08	8052286
				Dilution Factor: 1	Analysis Time...: 01:43	
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/19/08	8052287
				Dilution Factor: 1	Analysis Time...: 01:43	
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
				Dilution Factor: 1	Analysis Time...: 00:00	
Sulfate	105	5.0	mg/L	MCAWW 300.0A	02/19/08	8052285
				Dilution Factor: 10	Analysis Time...: 04:11	
Total Alkalinity	339	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
				Dilution Factor: 1	Analysis Time...: 00:00	
Total Dissolved Solids	801	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
				Dilution Factor: 1	Analysis Time...: 00:00	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2269L

TOTAL Metals

Lot-Sample #...: F8B210166-004

Matrix.....: WATER

Date Sampled...: 02/18/08 14:00 Date Received...: 02/19/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	8052202					
Calcium	209000 N	1000	ug/L	SW846 6020	02/21-02/26/08	KHE9P1AN
		Dilution Factor: 10		Analysis Time...: 13:33		
Iron	873	500	ug/L	SW846 6020	02/21-02/23/08	KHE9P1AP
		Dilution Factor: 10		Analysis Time...: 22:01		
Potassium	16100	1000	ug/L	SW846 6020	02/21-02/23/08	KHE9P1AQ
		Dilution Factor: 10		Analysis Time...: 22:01		
Magnesium	2740	500	ug/L	SW846 6020	02/21-02/23/08	KHE9P1AR
		Dilution Factor: 10		Analysis Time...: 22:01		
Manganese	14.3 B	20	ug/L	SW846 6020	02/21-02/23/08	KHE9P1AT
		Dilution Factor: 10		Analysis Time...: 22:01		
Sodium	160000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9P1AU
		Dilution Factor: 10		Analysis Time...: 22:01		
Silicon	8320 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHE9P1AV
		Dilution Factor: 10		Analysis Time...: 22:01		
Prep Batch #...	8067296					
Silica	17800	250	ug/L	SW846 6020	03/07/08	KHE9P1A6
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE (S) :

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2269L

General Chemistry

Lot-Sample #....: F8B210166-004 Work Order #....: KHE9P Matrix.....: WATER
 Date Sampled....: 02/18/08 14:00 Date Received...: 02/19/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	ND	25.0	mg/L	MCAWW 310.1	02/27/08	8058069
		Dilution Factor: 5		Analysis Time...: 00:00		
Bromide	0.57	0.25	mg/L	MCAWW 300.0A	02/19/08	8052282
		Dilution Factor: 1		Analysis Time...: 01:30		
Carbonate Alkalinity	324	25.0	mg/L	MCAWW 310.1	02/27/08	8058071
		Dilution Factor: 5		Analysis Time...: 00:00		
Chloride	214	20.0	mg/L	MCAWW 300.0A	02/19/08	8052283
		Dilution Factor: 100		Analysis Time...: 03:57		
Fluoride	0.38	0.10	mg/L	MCAWW 300.0A	02/19/08	8052284
		Dilution Factor: 1		Analysis Time...: 01:30		
Ion Balance Difference	0.28	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.097	0.020	mg/L	MCAWW 300.0A	02/19/08	8052286
		Dilution Factor: 1		Analysis Time...: 01:30		
Nitrite	0.19	0.020	mg/L	MCAWW 300.0A	02/19/08	8052287
		Dilution Factor: 1		Analysis Time...: 01:30		
Nitrogen, as Ammonia	72.8	50.0	ug/L	MCAWW 350.1	02/22/08	8053422
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	23.9	5.0	mg/L	MCAWW 300.0A	02/19/08	8052285
		Dilution Factor: 10		Analysis Time...: 03:44		
Total Alkalinity	592	25.0	mg/L	MCAWW 310.1	02/27/08	8058072
		Dilution Factor: 5		Analysis Time...: 00:00		
Total Dissolved Solids	872	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2301U

TOTAL Metals

Lot-Sample #...: F8B210166-005

Matrix.....: WATER

Date Sampled...: 02/18/08 15:30 Date Received...: 02/19/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	8052202					
Calcium	77400 N	2000	ug/L	SW846 6020	02/21-02/25/08	KHE9R1AN
		Dilution Factor: 20		Analysis Time...: 16:57		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE9R1AP
		Dilution Factor: 10		Analysis Time...: 22:04		
Potassium	3860	1000	ug/L	SW846 6020	02/21-02/23/08	KHE9R1AQ
		Dilution Factor: 10		Analysis Time...: 22:04		
Magnesium	8660	500	ug/L	SW846 6020	02/21-02/23/08	KHE9R1AR
		Dilution Factor: 10		Analysis Time...: 22:04		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHE9R1AT
		Dilution Factor: 10		Analysis Time...: 22:04		
Sodium	130000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9R1AU
		Dilution Factor: 10		Analysis Time...: 22:04		
Silicon	27300 N*	5000	ug/L	SW846 6020	02/21-02/25/08	KHE9R1AV
		Dilution Factor: 20		Analysis Time...: 16:57		
Prep Batch #...	8067296					
Silica	58400	250	ug/L	SW846 6020	03/07/08	KHE9R1CF
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2301U

General Chemistry

Lot-Sample #...: F8B210166-005 Work Order #...: KHE9R Matrix.....: WATER
 Date Sampled...: 02/18/08 15:30 Date Received...: 02/19/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	333	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.24 B	0.25	mg/L	MCAWW 300.0A	02/19/08	8052282
		Dilution Factor: 1		Analysis Time...: 02:10		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	73.5	10.0	mg/L	MCAWW 300.0A	02/19/08	8052283
		Dilution Factor: 50		Analysis Time...: 06:39		
Fluoride	0.66	0.10	mg/L	MCAWW 300.0A	02/19/08	8052284
		Dilution Factor: 1		Analysis Time...: 02:10		
Ion Balance Difference	0.60	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.68	0.020	mg/L	MCAWW 300.0A	02/19/08	8052286
		Dilution Factor: 1		Analysis Time...: 02:10		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/19/08	8052287
		Dilution Factor: 1		Analysis Time...: 02:10		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	35.4	5.0	mg/L	MCAWW 300.0A	02/19/08	8052285
		Dilution Factor: 10		Analysis Time...: 05:31		
Total Alkalinity	333	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	520	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2301L

TOTAL Metals

Lot-Sample #...: F8B210166-006

Matrix.....: WATER

Date Sampled...: 02/18/08 15:40 Date Received...: 02/19/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	8052202					
Calcium	114000 N	1000	ug/L	SW846 6020	02/21-02/26/08	KHE9T1AN
		Dilution Factor: 10		Analysis Time...: 13:37		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE9T1AP
		Dilution Factor: 10		Analysis Time...: 22:08		
Potassium	5130	1000	ug/L	SW846 6020	02/21-02/23/08	KHE9T1AQ
		Dilution Factor: 10		Analysis Time...: 22:08		
Magnesium	14600	500	ug/L	SW846 6020	02/21-02/23/08	KHE9T1AR
		Dilution Factor: 10		Analysis Time...: 22:08		
Manganese	112	20	ug/L	SW846 6020	02/21-02/23/08	KHE9T1AT
		Dilution Factor: 10		Analysis Time...: 22:08		
Sodium	122000	500	ug/L	SW846 6020	02/21-02/23/08	KHE9T1AU
		Dilution Factor: 10		Analysis Time...: 22:08		
Silicon	16800 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHE9T1AV
		Dilution Factor: 10		Analysis Time...: 22:08		
Prep Batch #...	8067296					
Silica	36000	250	ug/L	SW846 6020	03/07/08	KHE9T1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2301L

General Chemistry

Lot-Sample #...: F8B210166-006 Work Order #...: KHE9T Matrix.....: WATER
 Date Sampled...: 02/18/08 15:40 Date Received...: 02/19/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	300	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.42	0.25	mg/L	MCAWW 300.0A	02/19/08	8052282
		Dilution Factor: 1		Analysis Time...: 01:57		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	155	20.0	mg/L	MCAWW 300.0A	02/19/08	8052283
		Dilution Factor: 100		Analysis Time...: 04:51		
Fluoride	0.26	0.10	mg/L	MCAWW 300.0A	02/19/08	8052284
		Dilution Factor: 1		Analysis Time...: 01:57		
Ion Balance Difference	2.3	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.36	0.020	mg/L	MCAWW 300.0A	02/19/08	8052286
		Dilution Factor: 1		Analysis Time...: 01:57		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/19/08	8052287
		Dilution Factor: 1		Analysis Time...: 01:57		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	62.5	5.0	mg/L	MCAWW 300.0A	02/19/08	8052285
		Dilution Factor: 10		Analysis Time...: 04:38		
Total Alkalinity	300	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	669	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F8B210166

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F8B210000-202 Prep Batch #...: 8052202						
Calcium	ND	100	ug/L	SW846 6020	02/21-02/25/08	KHFJT1AA
		Dilution Factor: 1				
		Analysis Time...: 15:26				
Iron	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AC
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Magnesium	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AE
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Manganese	ND	2	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AF
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Potassium	ND	100	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AD
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Silicon	ND	250	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AH
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Sodium	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AG
		Dilution Factor: 1				
		Analysis Time...: 20:32				
MB Lot-Sample #: F8C070000-296 Prep Batch #...: 8067296						
Silica	ND	250	ug/L	SW846 6020	03/07/08	KH71W1AA
		Dilution Factor: 1				
		Analysis Time...: 00:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8B210166

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
Work Order #: KHHMN1AA MB Lot-Sample #: F8B220000-134						
Dilution Factor: 1						
Analysis Time...: 00:00						
Bicarbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/27/08	8058069
Work Order #: KHNGK1AA MB Lot-Sample #: F8B270000-069						
Dilution Factor: 1						
Analysis Time...: 00:00						
Bromide	ND	0.25	mg/L	MCAWW 300.0A	02/19/08	8052282
Work Order #: KHH461AA MB Lot-Sample #: F8B210000-282						
Dilution Factor: 1						
Analysis Time...: 12:43						
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
Work Order #: KHHM21AA MB Lot-Sample #: F8B220000-135						
Dilution Factor: 1						
Analysis Time...: 00:00						
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/27/08	8058071
Work Order #: KHNGN1AA MB Lot-Sample #: F8B270000-071						
Dilution Factor: 1						
Analysis Time...: 00:00						
Chloride	ND	0.20	mg/L	MCAWW 300.0A	02/19/08	8052283
Work Order #: KHH481AA MB Lot-Sample #: F8B210000-283						
Dilution Factor: 1						
Analysis Time...: 12:43						
Fluoride	ND	0.10	mg/L	MCAWW 300.0A	02/19/08	8052284
Work Order #: KHH5D1AA MB Lot-Sample #: F8B210000-284						
Dilution Factor: 1						
Analysis Time...: 12:43						
Nitrate	ND	0.020	mg/L	MCAWW 300.0A	02/19/08	8052286
Work Order #: KHH5Q1AA MB Lot-Sample #: F8B210000-286						
Dilution Factor: 1						
Analysis Time...: 12:43						
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/19/08	8052287
Work Order #: KHH5T1AA MB Lot-Sample #: F8B210000-287						
Dilution Factor: 1						
Analysis Time...: 12:43						

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8B210166

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia	22.7 B	Work Order #: KHJ1N1AA 50.0	ug/L	MB Lot-Sample #: F8B220000-421 MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1 Analysis Time...: 00:00				
Nitrogen, as Ammonia	ND	Work Order #: KHJ1P1AA 50.0	ug/L	MB Lot-Sample #: F8B220000-422 MCAWW 350.1	02/22/08	8053422
		Dilution Factor: 1 Analysis Time...: 00:00				
Sulfate	ND	Work Order #: KHH5J1AA 0.50	mg/L	MB Lot-Sample #: F8B210000-285 MCAWW 300.0A	02/19/08	8052285
		Dilution Factor: 1 Analysis Time...: 12:43				
Total Alkalinity	ND	Work Order #: KHHM81AA 5.0	mg/L	MB Lot-Sample #: F8B220000-136 MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1 Analysis Time...: 00:00				
Total Alkalinity	ND	Work Order #: KHNGQ1AA 5.0	mg/L	MB Lot-Sample #: F8B270000-072 MCAWW 310.1	02/27/08	8058072
		Dilution Factor: 1 Analysis Time...: 00:00				
Total Dissolved Solids	ND	Work Order #: KHM9Q1AA 5.0	mg/L	MB Lot-Sample #: F8B250000-085 MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1 Analysis Time...: 00:00				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F8B210166

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F8B210000-202 Prep Batch #...: 8052202					
Calcium	101	(85 - 115)	SW846 6020	02/21-02/25/08	KHFJT1AJ
		Dilution Factor: 1	Analysis Time...: 15:30		
Iron	101	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AK
		Dilution Factor: 1	Analysis Time...: 20:36		
Potassium	103	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AL
		Dilution Factor: 1	Analysis Time...: 20:36		
Magnesium	100	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AM
		Dilution Factor: 1	Analysis Time...: 20:36		
Manganese	107	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AN
		Dilution Factor: 1	Analysis Time...: 20:36		
Sodium	99	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AP
		Dilution Factor: 1	Analysis Time...: 20:36		
Silicon	103	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AQ
		Dilution Factor: 1	Analysis Time...: 20:36		
LCS Lot-Sample#: F8C070000-296 Prep Batch #...: 8067296					
Silica	103 N	(0.0- 0.0)	SW846 6020	03/07/08	KH71W1AC
		Dilution Factor: 1	Analysis Time...: 00:00		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: F8B210166

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity		WO#:KHHMN1AC-LCS/KHHMN1AD-LCSD LCS Lot-Sample#: F8B220000-134				
	100	(90 - 110)		MCAWW 310.1	02/22/08	8053134
	100	(90 - 110)	0.49 (0-15)	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1 Analysis Time...: 00:00				
Carbonate Alkalinity		WO#:KHHM21AC-LCS/KHHM21AD-LCSD LCS Lot-Sample#: F8B220000-135				
	100	(90 - 110)		MCAWW 310.1	02/22/08	8053135
	100	(90 - 110)	0.49 (0-15)	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1 Analysis Time...: 00:00				
Nitrogen, as Ammonia		WO#:KHJ1N1AC-LCS/KHJ1N1AD-LCSD LCS Lot-Sample#: F8B220000-421				
	100	(90 - 110)		MCAWW 350.1	02/22/08	8053421
	99	(90 - 110)	0.22 (0-20)	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1 Analysis Time...: 00:00				
Nitrogen, as Ammonia		WO#:KHJ1P1AC-LCS/KHJ1P1AD-LCSD LCS Lot-Sample#: F8B220000-422				
	103	(90 - 110)		MCAWW 350.1	02/22/08	8053422
	101	(90 - 110)	1.5 (0-20)	MCAWW 350.1	02/22/08	8053422
		Dilution Factor: 1 Analysis Time...: 00:00				
Total Alkalinity		WO#:KHHM81AC-LCS/KHHM81AD-LCSD LCS Lot-Sample#: F8B220000-136				
	100	(90 - 110)		MCAWW 310.1	02/22/08	8053136
	100	(90 - 110)	0.49 (0-15)	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1 Analysis Time...: 00:00				
Total Dissolved Solids		WO#:KHM9Q1AC-LCS/KHM9Q1AD-LCSD LCS Lot-Sample#: F8B250000-085				
	98	(86 - 115)		MCAWW 160.1	02/25-02/26/08	8056085
	99	(86 - 115)	1.6 (0-15)	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1 Analysis Time...: 00:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210166

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	100	(90 - 110)	MCAWW 310.1 Dilution Factor: 1	02/27/08 Analysis Time...: 00:00	8058069
Bromide	101	(90 - 110)	MCAWW 300.0A Dilution Factor: 1	02/19/08 Analysis Time...: 12:29	8052282
Carbonate Alkalinity	100	(90 - 110)	MCAWW 310.1 Dilution Factor: 1	02/27/08 Analysis Time...: 00:00	8058071
Chloride	96	(90 - 110)	MCAWW 300.0A Dilution Factor: 1	02/19/08 Analysis Time...: 12:29	8052283
Fluoride	96	(90 - 110)	MCAWW 300.0A Dilution Factor: 1	02/19/08 Analysis Time...: 12:29	8052284
Nitrate	103	(90 - 110)	MCAWW 300.0A Dilution Factor: 1	02/19/08 Analysis Time...: 12:29	8052286
Nitrite	101	(90 - 110)	MCAWW 300.0A Dilution Factor: 1	02/19/08 Analysis Time...: 12:29	8052287
Sulfate	98	(90 - 110)	MCAWW 300.0A Dilution Factor: 1	02/19/08 Analysis Time...: 12:29	8052285
Total Alkalinity	100	(90 - 110)	MCAWW 310.1 Dilution Factor: 1	02/27/08 Analysis Time...: 00:00	8058072

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F8B210166

Matrix.....: WATER

Date Sampled...: 02/19/08 10:00 Date Received...: 02/20/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F8B210151-001 Prep Batch #...: 8052202							
Calcium	69 N	(75 - 125)			SW846 6020	02/21-02/25/08	KHE551CH
	114	(75 - 125)	11	(0-20)	SW846 6020	02/21-02/25/08	KHE551CJ
		Dilution Factor: 10					
		Analysis Time...: 15:40					
Iron	112	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CK
	121	(75 - 125)	6.6	(0-20)	SW846 6020	02/21-02/23/08	KHE551CL
		Dilution Factor: 10					
		Analysis Time...: 20:46					
Magnesium	99	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CP
	104	(75 - 125)	2.5	(0-20)	SW846 6020	02/21-02/23/08	KHE551CQ
		Dilution Factor: 10					
		Analysis Time...: 20:46					
Manganese	110	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CR
	111	(75 - 125)	0.93	(0-20)	SW846 6020	02/21-02/23/08	KHE551CT
		Dilution Factor: 10					
		Analysis Time...: 20:46					
Potassium	101	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CM
	105	(75 - 125)	2.9	(0-20)	SW846 6020	02/21-02/23/08	KHE551CN
		Dilution Factor: 10					
		Analysis Time...: 20:46					
Silicon	0 N	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CW
	212 N, *	(75 - 125)	0.0	(0-20)	SW846 6020	02/21-02/23/08	KHE551CX
		Dilution Factor: 10					
		Analysis Time...: 20:46					
Sodium	76	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CU
	107	(75 - 125)	4.9	(0-20)	SW846 6020	02/21-02/23/08	KHE551CV
		Dilution Factor: 10					
		Analysis Time...: 20:46					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210166

Matrix.....: WATER

Date Sampled...: 02/18/08 10:30 Date Received...: 02/19/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	98	Work Order #...: KHE9R1A2 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210166-005 02/19/08	8052282
		Dilution Factor: 1		Analysis Time...: 02:10	
Chloride	101	Work Order #...: KHE9R1A4 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210166-005 02/19/08	8052283
		Dilution Factor: 50		Analysis Time...: 06:39	
Fluoride	100	Work Order #...: KHE9R1A6 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210166-005 02/19/08	8052284
		Dilution Factor: 1		Analysis Time...: 02:10	
Nitrate	108	Work Order #...: KHE9R1CA (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210166-005 02/19/08	8052286
		Dilution Factor: 1		Analysis Time...: 02:10	
Nitrite	146 N	Work Order #...: KHE9R1CD (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210166-005 02/19/08	8052287
		Dilution Factor: 1		Analysis Time...: 02:10	
Nitrogen, as Ammonia	97	Work Order #...: KHE551C0 (90 - 110)	MCAWW 350.1	MS Lot-Sample #: F8B210151-001 02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00	
Nitrogen, as Ammonia	104	Work Order #...: KHH7C1A1 (90 - 110)	MCAWW 350.1	MS Lot-Sample #: F8B220240-003 02/22-02/25/08	8053422
		Dilution Factor: 1		Analysis Time...: 00:00	
Sulfate	99	Work Order #...: KHE9R1A8 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210166-005 02/19/08	8052285
		Dilution Factor: 10		Analysis Time...: 05:31	
Total Alkalinity	93	Work Order #...: KHE9E1A4 (80 - 120)	MCAWW 310.1	MS Lot-Sample #: F8B210166-001 02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00	
Total Alkalinity	59 N	Work Order #...: KHE9P1A4 (80 - 120)	MCAWW 310.1	MS Lot-Sample #: F8B210166-004 02/27/08	8058072
		Dilution Factor: 5		Analysis Time...: 00:00	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: F8B210166

Work Order #....: KHE9R-SMP
KHE9R-DUP

Matrix.....: WATER

Date Sampled....: 02/18/08 15:30 Date Received...: 02/19/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	0.24 B	0.25	mg/L	5.1	(0-20)	SD Lot-Sample #: F8B210166-005 MCAWW 300.0A	02/19/08	8052282
						Dilution Factor: 1	Analysis Time...: 02:10	
Chloride	73.5	70.0	mg/L	4.9	(0-20)	SD Lot-Sample #: F8B210166-005 MCAWW 300.0A	02/19/08	8052283
						Dilution Factor: 50	Analysis Time...: 06:39	
Fluoride	0.66	0.66	mg/L	0.49	(0-20)	SD Lot-Sample #: F8B210166-005 MCAWW 300.0A	02/19/08	8052284
						Dilution Factor: 1	Analysis Time...: 02:10	
Sulfate	35.4	35.0	mg/L	0.95	(0-20)	SD Lot-Sample #: F8B210166-005 MCAWW 300.0A	02/19/08	8052285
						Dilution Factor: 10	Analysis Time...: 05:31	
Nitrate	0.68	0.70	mg/L	3.8	(0-20)	SD Lot-Sample #: F8B210166-005 MCAWW 300.0A	02/19/08	8052286
						Dilution Factor: 1	Analysis Time...: 02:10	
Nitrite	ND	ND	mg/L	0	(0-20)	SD Lot-Sample #: F8B210166-005 MCAWW 300.0A	02/19/08	8052287
						Dilution Factor: 1	Analysis Time...: 02:10	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210166

Work Order #...: KHE55-SMP
KHE55-DUP

Matrix.....: WATER

Date Sampled...: 02/19/08 10:00

Date Received...: 02/20/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia						SD Lot-Sample #:	F8B210151-001	
	22.7 B,J	22.7 B	ug/L	0.0	(0-20)	MCAWW 350.1	02/22/08	8053421
				Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210166

Work Order #...: KHH7C-SMP
KHH7C-DUP

Matrix.....: WATER

Date Sampled...: 02/21/08 12:15 Date Received...: 02/22/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia						SD Lot-Sample #:	F8B220240-003	
ND		7.9 B	ug/L	200	(0-20)	MCAWW 350.1	02/22/08	8053422
			Dilution Factor: 1			Analysis Time...: 00:00		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210166

Work Order #...: KHFEF-SMP
KHFEF-DUP

Matrix.....: WATER

Date Sampled...: 02/20/08 14:00 Date Received...: 02/21/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #:	F8B210162-006	
	1090	1150	mg/L	5.3	(0-0.0)	MCAWW 160.1	02/25-02/26/08	8056085
			Dilution Factor: 1			Analysis Time..: 00:00		

F8B210166

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received:

2008-02-19

Project: 6468071777

EXcelon Victoria TEXAS COL

Analytical Due Date:

2008-02-26

PO#: 200803591

Report to: Kathy White

Report Due Date:

2008-02-26

Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Report Type: W

#SMPS in LOT: 6

EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
1	OW-2169U			2008-02-18/ 1030	KHE9E	WATER
SAMPLE COMMENTS:						
FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
MG MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
SA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD PROT: A WRK LOC 06
SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
XX ZV	RAD SCREEN		RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET PROT: A WRK LOC 06
XX AK	MCAW 160.1 W		Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX C8	MCAW 300.0A W		Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX C9	MCAW 300.0A W		Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX CB	MCAW 310.1 W		Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX CX	MCAW 300.0A W		Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX CY	MCAW 300.0A W		Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX GM	MCAW 300.0A W		Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX GO	MCAW 300.0A W		Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX SL	SM18 1030F & API		Ion Balance (% Difference)	0X	CALCULATION ONLY	01 STANDARD TEST SET PROT: A WRK LOC 06
XX UX	MCAW 310.1 W		Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX VC	MCAW 310.1 W		Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX VM	MCAW 350.1 W		Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
S XX VC	MCAW 310.1 W		Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
X XX AK	MCAW 160.1 W		Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
X XX CB	MCAW 310.1 W		Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
X XX UX	MCAW 310.1 W		Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
X XX VC	MCAW 310.1 W		Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
2	OW-2169L			2008-02-18/ 1020	KHE9L	WATER
SAMPLE COMMENTS:						
FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
SA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD PROT: A WRK LOC 06
NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06

TestAmerica - St. Louis

Logged In by: VANIAI

2008-03-10

13:38:02

printed on: Monday, March 10, 2008 02:40 PM

Page 1 of 5

F8B210166

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS

Project Manager: IV Quote #: 78576 SDG:
 Project: 6468071777 EXcelon Victoria TEXAS COL
 PO#: 200803591 Report to: Kathy White
 Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Date Received: 2008-02-19
 Analytical Due Date: 2008-02-26
 Report Due Date: 2008-02-26
 Report Type: W
 EDD Code: 00

#SMPS in LOT: 6

KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
3	OW-2269U			2008-02-18 / 1230	KHE9N	WATER

SAMPLE COMMENTS:

CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06

F8B210166

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received: 2008-02-19

Project: 6468071777

EXcelon Victoria TEXAS COL

Analytical Due Date: 2008-02-26

PO#: 200803591

Report to: Kathy White

Report Due Date: 2008-02-26

Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Report Type: W

#SMPS in LOT: 6

EDD Code: 00

XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
4	OW-2269L			2008-02-18 / 1400	KHE9P	WATER

SAMPLE COMMENTS:

CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
FE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT:A	WRK LOC	06
SI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
X XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
X XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
X XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
5	OW-2301U			2008-02-18 / 1530	KHE9R	WATER

SAMPLE COMMENTS:

TestAmerica - St. Louis

Logged In by:

VANIAI

2008-03-10

13:38:02

printed on: Monday, March 10, 2008 02:40 PM

Page 3 of 5

F8B210166

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received:

2008-02-19

Project: 6468071777

EXcelon Victoria TEXAS COL

Analytical Due Date:

2008-02-26

PO#: 200803591

Report to: Kathy White

Report Due Date:

2008-02-26

Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Report Type: W

#SMPS in LOT: 6

EDD Code: 00

NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	OX	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT:A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
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XX	AK	MCAW	160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C8	MCAW	300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C9	MCAW	300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CB	MCAW	310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
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XX	GM	MCAW	300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GO	MCAW	300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	SL	SM18	1030F & API	Ion Balance (%) Difference)	OX	CALCULATION ONLY	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	UX	MCAW	310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VC	MCAW	310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VM	MCAW	350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S	XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S	XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S	XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S	XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S	XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
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X	XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
X	XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
6	OW-2301L			2008-02-18 / 1540	KHE9T	WATER

SAMPLE COMMENTS:

FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
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F8B210166

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received:

2008-02-19

Project: 6468071777

EXcelon Victoria TEXAS COL

Analytical Due Date:

2008-02-26

PO#: 200803591

Report to: Kathy White

Report Due Date:

2008-02-26

Client: 373886 MACTEC Engineering and Consulting Inc

#SMPS in LOT: 6

Report Type: W

EDD Code: 00

RUSH

SA MH SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC	06
SI MH SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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KX MH SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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XX UX MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VC MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VM MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client MACTEC		Project Manager William Grimes (919) 831-8029 Chris Bruce (864) 430-7415		Date 2/18/08	Chain of Custody Number 061790
Address 3301 Atlantic Ave		Telephone Number (Area Code)/Fax Number (864) 430-7415		Lab Number NA	Page 1 of 1
City Raleigh	State NC	Zip Code 27604	Site Contact C. Bruce	Lab Contact NA	Special Instructions/ Conditions of Receipt
Project Name and Location (State) Exelon Victoria COL, TX			Carrier/Waybill Number FedEx 799274395114		
Contract/Purchase Order/Quote No.					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						TDS/AIK	Anions	Metals	Ammonia	Analysis (Attach list if more space is needed)	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH						
OW-2169U	2-18-08	10:30	X				2	1	1					1	1	1	1	(met) 500P
OW-2169L	2-18-08	10:20	X				2	1	1					1	1	1	1	Anions includes a short hold for Nitrate/Nitrite
OW-2269U	2-18-08	12:30	X				2	1	1					1	1	1	1	
OW-2269L	2-18-08	2:00	X				2	1	1					1	1	1	1	
OW-2301U	2-18-08	3:30	X				2	1	1					1	1	1	1	for 02-19-08
OW-2301L	2-18-08	3:40	X				2	1	1					1	1	1	1	120P in w/c for 02-19-08

Possible Hazard Identification		Sample Disposal		(A fee may be assessed if samples are retained longer than 1 month)	
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client
Turn Around Time Required		<input checked="" type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For _____ Months	
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____		QC Requirements (Specify)			
1. Relinquished By Jeffery K. Moore	Date 2-18-08	Time 5:15	1. Received By [Signature]	Date 02-19-08	Time 0950
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time
Comments					

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



- 2087 - Lot # (s): F8B210166

Client: Mackec COC/RFA No: 061790 Date: 02.19.08
 Quote No: 78576 Initiated By: JN Time: 0950

Shipping Information

Shipper Name: FedEx Multiple Packages Y (N)
 Shipping # (s):* 7992 7439 5114 Sample Temperature (s):**
 1. 2° 6. _____
 2. _____ 7. _____
 3. _____ 8. _____
 4. _____ 9. _____
 5. _____ 10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on bottles?
2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?	11. <input type="radio"/> Y <input type="radio"/> N	If N/A- Was pH taken by original TestAmerica lab?
5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
6. <input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input type="radio"/> Y <input type="radio"/> N	Was Internal COC/Workshare received?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review:

Date: 2-22-08

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 08/06/07\SI\svr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc



DOCUMENTATION OF TECHNICAL REVIEW
SUBCONTRACTOR WORK PRODUCT

Project Name: Exelon COL Project

Project Number: 6468-07-1777

Project Manager: Scott Auger

Project Principal: Kathryn White

The report described below has been prepared by the named subcontractor retained in accordance with the MACTEC QAPD. The work and report have been reviewed by a MACTEC technically qualified person. Comments on the work or report, if any, have been satisfactorily addressed by the subcontractor. The attached report is approved in accordance with section QS-7 of MACTEC's QAPD.

The information and data contained in the attached report are hereby released by MACTEC for project use. Based on the presence of ammonia in the method blank associated with samples OW-2352U, OW-2352L, OW-2348U, OW-2348L, OW-2321U, and OW-2321L, MACTEC recommends using these data as non-detect values at the Reporting Limit of 50 µg/L.

REPORT : Analytical Report Lot #: F8B210151

SUBCONTRACTOR: TestAmerica, Earth City, MO

DATE OF ACCEPTANCE : 4/10/2008

TECHNICAL REVIEWER: William S. Grimes

PROJECT PRINCIPAL: Kathryn A. White





ANALYTICAL REPORT

PROJECT NO. 6468071777

EXcelon Victoria TEXAS COL

Lot #: F8B210151

Kathryn White

MACTEC Engineering & Consultin
3301 Atlantic Ave
Raleigh, NC 27604

TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Ivan Vania", is positioned above the printed name and title.

Ivan Vania
Project Manager

March 10, 2008

Case Narrative
LOT NUMBER: F8B210151

This report contains the analytical results for the six samples received under chain of custody by TestAmerica St. Louis on February 20, 2008. These samples are associated with your EXcelon Victoria TEXAS COL project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Due to limitations of the data reporting system method 6020 is reported for metals analysis; however, 6020C was used to perform the analysis.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

ICP-MS (SW846-6020)

Batches 8052202, 8039204, and 8045132:

The MS (MSD) recovery for batches 8052202 - silicon, 8039204- iron, and 8045132- barium, chromium and lead are outside the established QC limits. The said analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8B210151 (1): OW-2352U
F8B210151 (2): OW-2352L
F8B210151 (3): OW-2348U
F8B210151 (4): OW-2348L
F8B210151 (5): OW-2321U
F8B210151 (6): OW-2321L

Batches 8052202 and 8045132:

The MS (MSD) recoveries for batches 8052202 (calcium) and 8045132 (silver) are outside the established QC limits. The RPD is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8B210151 (1): OW-2352U
F8B210151 (2): OW-2352L
F8B210151 (3): OW-2348U
F8B210151 (4): OW-2348L
F8B210151 (5): OW-2321U
F8B210151 (6): OW-2321L

Batches 8052202 and 8045132:

The samples were analyzed at a dilution due to high concentrations of target analytes. The reporting limits were adjusted for the dilution since no analysis at a lesser dilution was performed.

Affected Samples:

F8B210151 (1): OW-2352U
F8B210151 (2): OW-2352L
F8B210151 (3): OW-2348U
F8B210151 (4): OW-2348L
F8B210151 (5): OW-2321U
F8B210151 (6): OW-2321L

Anions (MCAWW 300.0A)

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Chloride in batch 8052301 and Nitrite in batch 8052305 is attributed to matrix interference.

Affected Samples:

F8B210151 (1): OW-2352U
F8B210151 (2): OW-2352L
F8B210151 (3): OW-2348U
F8B210151 (4): OW-2348L
F8B210151 (5): OW-2321U
F8B210151 (6): OW-2321L

There were no other nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F8B210151

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity	MCAWW 310.1	MCAWW 310.1
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Bromide	MCAWW 300.0A	MCAWW 300.0A
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Ion Balance (%Difference)	SM18 1030F & AP	SM18 1030F & AP
ICP-MS (6020)	SW846 6020	
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F8B210151

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
KHE55	001	OW-2352U	02/19/08	10:00
KHE6M	002	OW-2352L	02/19/08	10:05
KHE6N	003	OW-2348U	02/19/08	11:55
KHE6P	004	OW-2348L	02/19/08	12:30
KHE6Q	005	OW-2321U	02/19/08	15:35
KHE6R	006	OW-2321L	02/19/08	15:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2352U

TOTAL Metals

Lot-Sample #...: F8B210151-001

Matrix.....: WATER

Date Sampled...: 02/19/08 10:00 Date Received...: 02/20/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	82200 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHE551AN
		Dilution Factor: 10		Analysis Time...: 15:33		
Iron	143 B	500	ug/L	SW846 6020	02/21-02/23/08	KHE551AP
		Dilution Factor: 10		Analysis Time...: 20:39		
Potassium	2180	1000	ug/L	SW846 6020	02/21-02/23/08	KHE551AQ
		Dilution Factor: 10		Analysis Time...: 20:39		
Magnesium	19500	500	ug/L	SW846 6020	02/21-02/23/08	KHE551AR
		Dilution Factor: 10		Analysis Time...: 20:39		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHE551AT
		Dilution Factor: 10		Analysis Time...: 20:39		
Sodium	139000	500	ug/L	SW846 6020	02/21-02/23/08	KHE551AU
		Dilution Factor: 10		Analysis Time...: 20:39		
Silicon	17300 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHE551AV
		Dilution Factor: 10		Analysis Time...: 20:39		
Prep Batch #...: 8067296						
Silica	37000	250	ug/L	SW846 6020	03/07/08	KHE551C2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

- N Spiked analyte recovery is outside stated control limits.
 B Estimated result. Result is less than RL.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2352U

General Chemistry

Lot-Sample #....: F8B210151-001 Work Order #....: KHE55 Matrix.....: WATER
 Date Sampled....: 02/19/08 10:00 Date Received...: 02/20/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	329	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.52	0.25	mg/L	MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1		Analysis Time...: 02:31		
Carbonate Alkalinity ND		5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	164	20.0	mg/L	MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 100		Analysis Time...: 07:18		
Fluoride	0.74	0.10	mg/L	MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1		Analysis Time...: 02:31		
Ion Balance Difference	2.5	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.61	0.020	mg/L	MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1		Analysis Time...: 02:31		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 10		Analysis Time...: 06:40		
Nitrogen, as Ammonia 22.7 B,J		50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	55.7	5.0	mg/L	MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 10		Analysis Time...: 06:40		
Total Alkalinity	329	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	602	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2352L

TOTAL Metals

Lot-Sample #...: F8B210151-002

Matrix.....: WATER

Date Sampled...: 02/19/08 10:05 Date Received...: 02/20/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	95800 N	2000	ug/L	SW846 6020	02/21-02/25/08	KHE6M1AN
		Dilution Factor: 20		Analysis Time...: 15:48		
Iron	1300	500	ug/L	SW846 6020	02/21-02/23/08	KHE6M1AP
		Dilution Factor: 10		Analysis Time...: 21:02		
Potassium	4090	1000	ug/L	SW846 6020	02/21-02/23/08	KHE6M1AQ
		Dilution Factor: 10		Analysis Time...: 21:02		
Magnesium	19700	500	ug/L	SW846 6020	02/21-02/23/08	KHE6M1AR
		Dilution Factor: 10		Analysis Time...: 21:02		
Manganese	34.9	20	ug/L	SW846 6020	02/21-02/23/08	KHE6M1AT
		Dilution Factor: 10		Analysis Time...: 21:02		
Sodium	184000	500	ug/L	SW846 6020	02/21-02/23/08	KHE6M1AU
		Dilution Factor: 10		Analysis Time...: 21:02		
Silicon	21200 N*	5000	ug/L	SW846 6020	02/21-02/25/08	KHE6M1AV
		Dilution Factor: 20		Analysis Time...: 15:48		
Prep Batch #...: 8067296						
Silica	45400	250	ug/L	SW846 6020	03/07/08	KHE6M1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2352L

General Chemistry

Lot-Sample #...: F8B210151-002 Work Order #...: KHE6M Matrix.....: WATER
 Date Sampled...: 02/19/08 10:05 Date Received...: 02/20/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	311	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.61	0.25	mg/L	MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1		Analysis Time...: 02:18		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	234	20.0	mg/L	MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 100		Analysis Time...: 06:28		
Fluoride	0.37	0.10	mg/L	MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1		Analysis Time...: 02:18		
Ion Balance Difference	3.9	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	1.1	0.020	mg/L	MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1		Analysis Time...: 02:18		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 10		Analysis Time...: 06:16		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	118	5.0	mg/L	MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 10		Analysis Time...: 06:16		
Total Alkalinity	311	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	788	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2348U

TOTAL Metals

Lot-Sample #...: F8B210151-003

Matrix.....: WATER

Date Sampled...: 02/19/08 11:55 Date Received...: 02/20/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	8052202					
Calcium	159000 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHE6N1AN
		Dilution Factor: 10		Analysis Time...: 15:59		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE6N1AP
		Dilution Factor: 10		Analysis Time...: 21:06		
Potassium	4380	1000	ug/L	SW846 6020	02/21-02/23/08	KHE6N1AQ
		Dilution Factor: 10		Analysis Time...: 21:06		
Magnesium	30400	500	ug/L	SW846 6020	02/21-02/23/08	KHE6N1AR
		Dilution Factor: 10		Analysis Time...: 21:06		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHE6N1AT
		Dilution Factor: 10		Analysis Time...: 21:06		
Sodium	166000	500	ug/L	SW846 6020	02/21-02/23/08	KHE6N1AU
		Dilution Factor: 10		Analysis Time...: 21:06		
Silicon	16600 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHE6N1AV
		Dilution Factor: 10		Analysis Time...: 21:06		
Prep Batch #...	8067296					
Silica	35500	250	ug/L	SW846 6020	03/07/08	KHE6N1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2348U

General Chemistry

Lot-Sample #...: F8B210151-003 Work Order #...: KHE6N Matrix.....: WATER
 Date Sampled...: 02/19/08 11:55 Date Received...: 02/20/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	252	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	1.1	0.25	mg/L	MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1		Analysis Time...: 02:06		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	453	20.0	mg/L	MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 100		Analysis Time...: 06:03		
Fluoride	0.37	0.10	mg/L	MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1		Analysis Time...: 02:06		
Ion Balance Difference	6.6	0.10	%	SM18 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.57	0.020	mg/L	MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1		Analysis Time...: 02:06		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 10		Analysis Time...: 05:51		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	106	5.0	mg/L	MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 10		Analysis Time...: 05:51		
Total Alkalinity	252	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	1110	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2348L

TOTAL Metals

Lot-Sample #...: F8B210151-004

Matrix.....: WATER

Date Sampled...: 02/19/08 12:30 Date Received...: 02/20/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	175000 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHE6P1AN
		Dilution Factor: 10		Analysis Time...: 16:03		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE6P1AP
		Dilution Factor: 10		Analysis Time...: 21:09		
Potassium	5420	1000	ug/L	SW846 6020	02/21-02/23/08	KHE6P1AQ
		Dilution Factor: 10		Analysis Time...: 21:09		
Magnesium	33300	500	ug/L	SW846 6020	02/21-02/23/08	KHE6P1AR
		Dilution Factor: 10		Analysis Time...: 21:09		
Manganese	33.6	20	ug/L	SW846 6020	02/21-02/23/08	KHE6P1AT
		Dilution Factor: 10		Analysis Time...: 21:09		
Sodium	111000	500	ug/L	SW846 6020	02/21-02/23/08	KHE6P1AU
		Dilution Factor: 10		Analysis Time...: 21:09		
Silicon	15900 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHE6P1AV
		Dilution Factor: 10		Analysis Time...: 21:09		
Prep Batch #...: 8067296						
Silica	34000	250	ug/L	SW846 6020	03/07/08	KHE6P1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2348L

General Chemistry

Lot-Sample #...: F8B210151-004 Work Order #...: KHE6P Matrix.....: WATER
 Date Sampled...: 02/19/08 12:30 Date Received...: 02/20/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	252	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	1.3	0.25	mg/L	MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1		Analysis Time...: 01:53		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	424	20.0	mg/L	MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 100		Analysis Time...: 05:38		
Fluoride	0.27	0.10	mg/L	MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1		Analysis Time...: 01:53		
Ion Balance Difference	7.6	0.10	%	SM18 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.41	0.020	mg/L	MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1		Analysis Time...: 01:53		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 10		Analysis Time...: 05:26		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	93.3	5.0	mg/L	MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 10		Analysis Time...: 05:26		
Total Alkalinity	252	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	1050	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2321U.

TOTAL Metals

Lot-Sample #...: F8B210151-005

Matrix.....: WATER

Date Sampled...: 02/19/08 15:35 Date Received...: 02/20/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	111000 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHE6Q1AN
		Dilution Factor: 10		Analysis Time...: 16:07		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHE6Q1AP
		Dilution Factor: 10		Analysis Time...: 21:13		
Potassium	4610	1000	ug/L	SW846 6020	02/21-02/23/08	KHE6Q1AQ
		Dilution Factor: 10		Analysis Time...: 21:13		
Magnesium	18400	500	ug/L	SW846 6020	02/21-02/23/08	KHE6Q1AR
		Dilution Factor: 10		Analysis Time...: 21:13		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHE6Q1AT
		Dilution Factor: 10		Analysis Time...: 21:13		
Sodium	133000	500	ug/L	SW846 6020	02/21-02/23/08	KHE6Q1AU
		Dilution Factor: 10		Analysis Time...: 21:13		
Silicon	19600 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHE6Q1AV
		Dilution Factor: 10		Analysis Time...: 21:13		
Prep Batch #...: 8067296						
Silica	41900	250	ug/L	SW846 6020	03/07/08	KHE6Q1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2321U

General Chemistry

Lot-Sample #...: F8B210151-005 Work Order #...: KHE6Q Matrix.....: WATER
Date Sampled...: 02/19/08 15:35 Date Received...: 02/20/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	300	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.66	0.25	mg/L	MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1		Analysis Time...: 01:41		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	220	20.0	mg/L	MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 100		Analysis Time...: 05:14		
Fluoride	0.41	0.10	mg/L	MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1		Analysis Time...: 01:41		
Ion Balance Difference	3.4	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.50	0.020	mg/L	MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1		Analysis Time...: 01:41		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 10		Analysis Time...: 05:01		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	65.3	5.0	mg/L	MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 10		Analysis Time...: 05:01		
Total Alkalinity	300	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	733	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2321L

TOTAL Metals

Lot-Sample #...: F8B210151-006

Matrix.....: WATER

Date Sampled...: 02/19/08 15:30 Date Received...: 02/20/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	166000 N	2000	ug/L	SW846 6020	02/21-02/25/08	KHE6R1AN
		Dilution Factor: 20		Analysis Time...: 16:10		
Iron	3780	500	ug/L	SW846 6020	02/21-02/23/08	KHE6R1AP
		Dilution Factor: 10		Analysis Time...: 21:16		
Potassium	6590	1000	ug/L	SW846 6020	02/21-02/23/08	KHE6R1AQ
		Dilution Factor: 10		Analysis Time...: 21:16		
Magnesium	27100	500	ug/L	SW846 6020	02/21-02/23/08	KHE6R1AR
		Dilution Factor: 10		Analysis Time...: 21:16		
Manganese	53.0	20	ug/L	SW846 6020	02/21-02/23/08	KHE6R1AT
		Dilution Factor: 10		Analysis Time...: 21:16		
Sodium	128000	500	ug/L	SW846 6020	02/21-02/23/08	KHE6R1AU
		Dilution Factor: 10		Analysis Time...: 21:16		
Silicon	31000 N*	5000	ug/L	SW846 6020	02/21-02/25/08	KHE6R1AV
		Dilution Factor: 20		Analysis Time...: 16:10		
Prep Batch #...: 8067296						
Silica	66300	250	ug/L	SW846 6020	03/07/08	KHE6R1CF
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2321L

General Chemistry

Lot-Sample #...: F8B210151-006 Work Order #...: KHE6R Matrix.....: WATER
 Date Sampled...: 02/19/08 15:30 Date Received...: 02/20/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	279	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.90	0.25	mg/L	MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1		Analysis Time...: 01:29		
Carbonate Alkalinity ND		5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	355	20.0	mg/L	MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 100		Analysis Time...: 04:49		
Fluoride	0.28	0.10	mg/L	MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1		Analysis Time...: 01:29		
Ion Balance Difference	5.2	0.10	%	SM18 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.52	0.020	mg/L	MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1		Analysis Time...: 01:29		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 10		Analysis Time...: 03:21		
Nitrogen, as Ammonia 22.7 B,J		50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	59.6	5.0	mg/L	MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 10		Analysis Time...: 03:21		
Total Alkalinity	279	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	919	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F8B210151

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F8B210000-202 Prep Batch #...: 8052202						
Calcium	ND	100	ug/L	SW846 6020	02/21-02/25/08	KHFJT1AA
		Dilution Factor: 1				
		Analysis Time...: 15:26				
Iron	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AC
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Magnesium	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AE
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Manganese	ND	2	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AF
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Potassium	ND	100	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AD
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Silicon	ND	250	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AH
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Sodium	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AG
		Dilution Factor: 1				
		Analysis Time...: 20:32				
MB Lot-Sample #: F8C070000-296 Prep Batch #...: 8067296						
Silica	ND	250	ug/L	SW846 6020	03/07/08	KH71W1AA
		Dilution Factor: 1				
		Analysis Time...: 00:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8B210151

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	ND	Work Order #: KHHMN1AA		MB Lot-Sample #: F8B220000-134		
		5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1				
		Analysis Time...: 00:00				
Bromide	ND	Work Order #: KHJH81AA		MB Lot-Sample #: F8B210000-300		
		0.25	mg/L	MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1				
		Analysis Time...: 10:58				
Carbonate Alkalinity	ND	Work Order #: KHHM21AA		MB Lot-Sample #: F8B220000-135		
		5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1				
		Analysis Time...: 00:00				
Chloride	ND	Work Order #: KHJH91AA		MB Lot-Sample #: F8B210000-301		
		0.20	mg/L	MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 1				
		Analysis Time...: 10:58				
Fluoride	ND	Work Order #: KHJJA1AA		MB Lot-Sample #: F8B210000-302		
		0.10	mg/L	MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1				
		Analysis Time...: 10:58				
Nitrate	ND	Work Order #: KHJJG1AA		MB Lot-Sample #: F8B210000-304		
		0.020	mg/L	MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1				
		Analysis Time...: 10:58				
Nitrite	ND	Work Order #: KHJJE1AA		MB Lot-Sample #: F8B210000-305		
		0.020	mg/L	MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 1				
		Analysis Time...: 10:58				
Nitrogen, as Ammonia	22.7 B	Work Order #: KHJ1N1AA		MB Lot-Sample #: F8B220000-421		
		50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1				
		Analysis Time...: 00:00				
Sulfate	ND	Work Order #: KHJJC1AA		MB Lot-Sample #: F8B210000-303		
		0.50	mg/L	MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 1				
		Analysis Time...: 10:58				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #....: F8B210151

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity	ND	Work Order #: KHHM81AA 5.0	mg/L	MB Lot-Sample #: F8B220000-136 MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1				
		Analysis Time...: 00:00				
Total Dissolved Solids	ND	Work Order #: KHM9Q1AA 5.0	mg/L	MB Lot-Sample #: F8B250000-085 MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1				
		Analysis Time...: 00:00				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F8B210151

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F8B210000-202 Prep Batch #...: 8052202					
Calcium	101	(85 - 115)	SW846 6020	02/21-02/25/08	KHFJT1AJ
		Dilution Factor: 1		Analysis Time...: 15:30	
Iron	101	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AK
		Dilution Factor: 1		Analysis Time...: 20:36	
Potassium	103	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AL
		Dilution Factor: 1		Analysis Time...: 20:36	
Magnesium	100	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AM
		Dilution Factor: 1		Analysis Time...: 20:36	
Manganese	107	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AN
		Dilution Factor: 1		Analysis Time...: 20:36	
Sodium	99	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AP
		Dilution Factor: 1		Analysis Time...: 20:36	
Silicon	103	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AQ
		Dilution Factor: 1		Analysis Time...: 20:36	
LCS Lot-Sample#: F8C070000-296 Prep Batch #...: 8067296					
Silica	103 N	(0.0- 0.0)	SW846 6020	03/07/08	KH71W1AC
		Dilution Factor: 1		Analysis Time...: 00:00	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: F8B210151

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate					WO#:KHHMN1AC-LCS/KHHMN1AD-LCSD	LCS Lot-Sample#: F8B220000-134	
Alkalinity							
	100	(90 - 110)			MCAWW 310.1	02/22/08	8053134
	100	(90 - 110)	0.49	(0-15)	MCAWW 310.1	02/22/08	8053134
			Dilution Factor: 1		Analysis Time...: 00:00		
Carbonate Alkalinity					WO#:KHHM21AC-LCS/KHHM21AD-LCSD	LCS Lot-Sample#: F8B220000-135	
	100	(90 - 110)			MCAWW 310.1	02/22/08	8053135
	100	(90 - 110)	0.49	(0-15)	MCAWW 310.1	02/22/08	8053135
			Dilution Factor: 1		Analysis Time...: 00:00		
Nitrogen, as Ammonia					WO#:KHJ1N1AC-LCS/KHJ1N1AD-LCSD	LCS Lot-Sample#: F8B220000-421	
	100	(90 - 110)			MCAWW 350.1	02/22/08	8053421
	99	(90 - 110)	0.22	(0-20)	MCAWW 350.1	02/22/08	8053421
			Dilution Factor: 1		Analysis Time...: 00:00		
Total Alkalinity					WO#:KHHM81AC-LCS/KHHM81AD-LCSD	LCS Lot-Sample#: F8B220000-136	
	100	(90 - 110)			MCAWW 310.1	02/22/08	8053136
	100	(90 - 110)	0.49	(0-15)	MCAWW 310.1	02/22/08	8053136
			Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids					WO#:KHM9Q1AC-LCS/KHM9Q1AD-LCSD	LCS Lot-Sample#: F8B250000-085	
	98	(86 - 115)			MCAWW 160.1	02/25-02/26/08	8056085
	99	(86 - 115)	1.6	(0-15)	MCAWW 160.1	02/25-02/26/08	8056085
			Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210151

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	104	Work Order #: KHJH81AC (90 - 110)	LCS Lot-Sample#: F8B210000-300 MCAWW 300.0A	02/20/08	8052300
		Dilution Factor: 1	Analysis Time...: 10:44		
Chloride	99	Work Order #: KHJH91AC (90 - 110)	LCS Lot-Sample#: F8B210000-301 MCAWW 300.0A	02/20/08	8052301
		Dilution Factor: 1	Analysis Time...: 10:44		
Fluoride	97	Work Order #: KHJJA1AC (90 - 110)	LCS Lot-Sample#: F8B210000-302 MCAWW 300.0A	02/20/08	8052302
		Dilution Factor: 1	Analysis Time...: 10:44		
Nitrate	106	Work Order #: KHJJG1AC (90 - 110)	LCS Lot-Sample#: F8B210000-304 MCAWW 300.0A	02/20/08	8052304
		Dilution Factor: 1	Analysis Time...: 10:44		
Nitrite	106	Work Order #: KHJJE1AC (90 - 110)	LCS Lot-Sample#: F8B210000-305 MCAWW 300.0A	02/20/08	8052305
		Dilution Factor: 1	Analysis Time...: 10:44		
Sulfate	100	Work Order #: KHJJC1AC (90 - 110)	LCS Lot-Sample#: F8B210000-303 MCAWW 300.0A	02/20/08	8052303
		Dilution Factor: 1	Analysis Time...: 10:44		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F8B210151

Matrix.....: WATER

Date Sampled...: 02/19/08 10:00 Date Received...: 02/20/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F8B210151-001 Prep Batch #...: 8052202							
Calcium	69 N	(75 - 125)			SW846 6020	02/21-02/25/08	KHE551CH
	114	(75 - 125)	11	(0-20)	SW846 6020	02/21-02/25/08	KHE551CJ
			Dilution Factor: 10				
			Analysis Time...: 15:40				
Iron	112	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CK
	121	(75 - 125)	6.6	(0-20)	SW846 6020	02/21-02/23/08	KHE551CL
			Dilution Factor: 10				
			Analysis Time...: 20:46				
Magnesium	99	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CP
	104	(75 - 125)	2.5	(0-20)	SW846 6020	02/21-02/23/08	KHE551CQ
			Dilution Factor: 10				
			Analysis Time...: 20:46				
Manganese	110	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CR
	111	(75 - 125)	0.93	(0-20)	SW846 6020	02/21-02/23/08	KHE551CT
			Dilution Factor: 10				
			Analysis Time...: 20:46				
Potassium	101	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CM
	105	(75 - 125)	2.9	(0-20)	SW846 6020	02/21-02/23/08	KHE551CN
			Dilution Factor: 10				
			Analysis Time...: 20:46				
Silicon	0 N	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CW
	212 N,*	(75 - 125)	0.0	(0-20)	SW846 6020	02/21-02/23/08	KHE551CX
			Dilution Factor: 10				
			Analysis Time...: 20:46				
Sodium	76	(75 - 125)			SW846 6020	02/21-02/23/08	KHE551CU
	107	(75 - 125)	4.9	(0-20)	SW846 6020	02/21-02/23/08	KHE551CV
			Dilution Factor: 10				
			Analysis Time...: 20:46				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210151

Matrix.....: WATER

Date Sampled...: 02/19/08 10:00 Date Received...: 02/20/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	104	Work Order #...: KHE6R1A2 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210151-006 02/20/08	8052300
		Dilution Factor: 1		Analysis Time...: 01:29	
Chloride	118 N	Work Order #...: KHE6R1A4 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210151-006 02/20/08	8052301
		Dilution Factor: 100		Analysis Time...: 04:49	
Fluoride	105	Work Order #...: KHE6R1A6 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210151-006 02/20/08	8052302
		Dilution Factor: 1		Analysis Time...: 01:29	
Nitrate	107	Work Order #...: KHE6R1CD (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210151-006 02/20/08	8052304
		Dilution Factor: 1		Analysis Time...: 01:29	
Nitrite	127 N	Work Order #...: KHE6R1CA (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210151-006 02/20/08	8052305
		Dilution Factor: 10		Analysis Time...: 03:21	
Nitrogen, as Ammonia	97	Work Order #...: KHE551C0 (90 - 110)	MCAWW 350.1	MS Lot-Sample #: F8B210151-001 02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00	
Sulfate	106	Work Order #...: KHE6R1A8 (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210151-006 02/20/08	8052303
		Dilution Factor: 10		Analysis Time...: 03:21	
Total Alkalinity	93	Work Order #...: KHE9E1A4 (80 - 120)	MCAWW 310.1	MS Lot-Sample #: F8B210166-001 02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210151 Work Order #...: KHE55-SMP Matrix.....: WATER
KHE55-DUP
Date Sampled...: 02/19/08 10:00 Date Received...: 02/20/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia						SD Lot-Sample #: F8B210151-001		
	22.7 B,J	22.7 B	ug/L	0.0	(0-20)	MCAWW 350.1	02/22/08	8053421
			Dilution Factor: 1			Analysis Time...: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210151

Work Order #...: KHFEESMP

Matrix.....: WATER

KHFEE-DUP

Date Sampled...: 02/20/08 14:00 Date Received...: 02/21/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #:	F8B210162-006	
	1090	1150	mg/L	5.3	(0-0.0)	MCAWW 160.1	02/25-02/26/08	8056085
			Dilution Factor: 1			Analysis Time..: 00:00		

F8B210151

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS

Project Manager: IV Quote #: 78576 SDG:

Date Received: 2008-02-20

Project: 6468071777 EXcelon Victoria TEXAS COL

Analytical Due Date: 2008-02-27

PO#: 200803591 Report to: Kathryn White

Report Due Date: 2008-02-27

Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Report Type: W

#SMPS in LOT: 6

EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	!
1	OW-2352U			2008-02-19 / 1000	KHE55	WATER
SAMPLE COMMENTS:						
FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
MG MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
SA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	0X CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD	PROT: A WRK LOC 06
SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX ZV	RAD SCREEN		RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX AK	MCAW 160.1 W		Solids, Filterable "TDS" (160.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX C8	MCAW 300.0A W		Fluoride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX C9	MCAW 300.0A W		Nitrate as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CB	MCAW 310.1 W		Alkalinity, Carbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CX	MCAW 300.0A W		Chloride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CY	MCAW 300.0A W		Sulfate (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX GM	MCAW 300.0A W		Bromide (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX GO	MCAW 300.0A W		Nitrite as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX SL	SM18 1030F & API		Ion Balance (% Difference)	0X CALCULATION ONLY	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX UX	MCAW 310.1 W		Alkalinity, Bicarbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX VC	MCAW 310.1 W		Alkalinity, Total (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX VM	MCAW 350.1 W		Nitrogen, Ammonia (350.1, Automated)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
D FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D MG MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06

F8B210151

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received:

2008-02-20

Project: 6468071777

EXcelon Victoria TEXAS COL

Analytical Due Date:

2008-02-27

PO#: 200803591

Report to: Kathryn White

Report Due Date:

2008-02-27

Client: 373886 MACTEC Engineering and Consulting Inc

#SMPS in LOT: 6

Report Type: W

EDD Code: 00

RUSH

S	MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
S	XX	VM	MCAW	350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
X	XX	VM	MCAW	350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
2	OW-2352L			2008-02-19 / 1005	KHE6M	WATER
SAMPLE COMMENTS:						
NA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
SI	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
SA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD PROT: A WRK LOC 06
CA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
MG	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
FE	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
KX	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
MN	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06
XX	VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
3	OW-2348U			2008-02-19 / 1155	KHE6N	WATER
SAMPLE COMMENTS:						
NA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
CA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
SA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD PROT: A WRK LOC 06
SI	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
MN	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
MG	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06
FE	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01 STANDARD TEST SET PROT: A WRK LOC 06

F8B210151

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received: 2008-02-20

Project: 6468071777

EXcelon Victoria TEXAS COL

Analytical Due Date: 2008-02-27

PO#: 200803591

Report to: Kathryn White

Report Due Date: 2008-02-27

Client: 373886 MACTEC Engineering and Consulting Inc

#SMPS in LOT: 6

Report Type: W

EDD Code: 00

RUSH

KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	ZV		RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	AK	MCAW	160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C8	MCAW	300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C9	MCAW	300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CB	MCAW	310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CX	MCAW	300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CY	MCAW	300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GM	MCAW	300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GO	MCAW	300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	SL	SM18	1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	UX	MCAW	310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VC	MCAW	310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VM	MCAW	350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	1
4	OW-2348L			2008-02-19/ 1230	KHE6P	WATER

SAMPLE COMMENTS:

SI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT:A	WRK LOC	06
XX	ZV		RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	AK	MCAW	160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C8	MCAW	300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C9	MCAW	300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CB	MCAW	310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CX	MCAW	300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CY	MCAW	300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GM	MCAW	300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GO	MCAW	300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	SL	SM18	1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	UX	MCAW	310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VC	MCAW	310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

F8B210151

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS
 Date Received: 2008-02-20
 Analytical Due Date: 2008-02-27
 Report Due Date: 2008-02-27
 Report Type: W
 EDD Code: 00

Project Manager: IV
 Project: 6468071777
 PO#: 200803591
 Client: 373886
 Quote #: 78576
 SDG:
 EXcelon Victoria TEXAS COL
 Report to: Kathryn White
 MACTEC Engineering and Consulting Inc

RUSH

#SMPS In LOT: 6

XX	VM	MCAW	350.1	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER 1											
5		OW-2321U					2008-02-19 / 1535		KHE6Q	WATER	
SAMPLE COMMENTS:											
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
SA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
SI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06
XX	ZV	RAD	SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK	06
XX	AK	MCAW	160.1	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	C8	MCAW	300.0A	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	C9	MCAW	300.0A	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	CB	MCAW	310.1	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	CX	MCAW	300.0A	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	CY	MCAW	300.0A	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	GM	MCAW	300.0A	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	GO	MCAW	300.0A	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	SL	SM18	1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK	06
XX	UX	MCAW	310.1	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	VC	MCAW	310.1	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06
XX	VM	MCAW	350.1	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	1
6	OW-2321L			2008-02-19 / 1530	KHE6R	WATER
SAMPLE COMMENTS:						
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
SI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
SA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
XX	ZV	RAD	SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN

F8B210151

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS
 Date Received: 2008-02-20
 Analytical Due Date: 2008-02-27
 Report Due Date: 2008-02-27
 Report Type: W
 EDD Code: 00

Project Manager: IV
 Project: 6468071777
 PO#: 200803591
 Client: 373886
 Quote #: 78576
 EXcelon Victoria TEXAS COL
 Report to: Kathryn White
 MACTEC Engineering and Consulting Inc

RUSH

#SMPS in LOT: 6

XX	AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
S	XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

- 2060¹ Tot #(s): FG8210151

Client: Martel COC/RFA No: 061791 Condition Upon Receipt Form
 Quote No: 78572 Initiated By: BN Date: 2/20/06
 Time: 0945

Shipping Information

Shipper Name: EE Multiple Packages Y (N)
 Shipping # (s):*
 1. 7992 7517 7815 6. _____ Sample Temperature (s):**
 2. _____ 7. _____ 1. 3 6. _____
 3. _____ 8. _____ 2. _____ 7. _____
 4. _____ 9. _____ 3. _____ 8. _____
 5. _____ 10. _____ 4. _____ 9. _____
 5. _____ 10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <u>(Y)</u> N	Are there custody seals present on the cooler?	8. Y <u>(N)</u>	Are there custody seals present on bottles?
2. Y <u>(N)</u> N/A	Do custody seals on cooler appear to be tampered with?	9. Y N <u>(N/A)</u>	Do custody seals on bottles appear to be tampered with?
3. <u>(Y)</u> N	Were contents of cooler frisked after opening, but before unpacking?	10. <u>(Y)</u> N N/A	Was sample received with proper pH? (If not, make note below)
4. <u>(Y)</u> N	Sample received with Chain of Custody?	11. Y N	If N/A- Was pH taken by original TestAmerica lab?
5. <u>(Y)</u> N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <u>(Y)</u> N	Sample received in proper containers?
6. Y <u>(N)</u>	Was sample received broken?	13. Y N <u>(N/A)</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7. <u>(Y)</u> N	Is sample volume sufficient for analysis?	14. Y N	Was Internal COC/Workshare received?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review:

Date: 2-22-06

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.
 Page 201 of 257 DCN# EXE808



DOCUMENTATION OF TECHNICAL REVIEW
SUBCONTRACTOR WORK PRODUCT

Project Name: Exelon COL Project

Project Number: 6468-07-1777

Project Manager: Scott Auger

Project Principal: Kathryn White

The report described below has been prepared by the named subcontractor retained in accordance with the MACTEC QAPD. The work and report have been reviewed by a MACTEC technically qualified person. Comments on the work or report, if any, have been satisfactorily addressed by the subcontractor. The attached report is approved in accordance with section QS-7 of MACTEC's QAPD.

The information and data contained in the attached report are hereby released by MACTEC for project use. Based on the presence of ammonia in the method blank associated with samples OW-2307U, OW-2307L, OW-2324U, OW-2324L, OW-2359U1, and OW-2359L2, MACTEC recommends using these data as non-detect values at the Reporting Limit of 50 µg/L.

REPORT : Analytical Report Lot #: F8B210162

SUBCONTRACTOR: TestAmerica, Earth City, MO

DATE OF ACCEPTANCE : 4/10/2008

TECHNICAL REVIEWER: William S. Grimes

PROJECT PRINCIPAL: Kathryn A. White

William S. Grimes
Kathryn A. White

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 6468071777

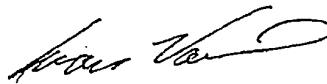
Excelon Victoria TEXAS COL

Lot #: F8B210162

Kathryn White

MACTEC Engineering & Consultin
3301 Atlantic Ave
Raleigh, NC 27604

TESTAMERICA LABORATORIES, INC.



Ivan Vania
Project Manager

March 10, 2008

Case Narrative
LOT NUMBER: F8B210162

This report contains the analytical results for the six samples received under chain of custody by TestAmerica St. Louis on February 21, 2008. These samples are associated with your Excelon Victoria TEXAS COL project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Due to limitations of the data reporting system method 6020 is reported for metals analysis; however, 6020C was used to perform the analysis.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

ICP-MS (SW846-6020)

Batches 8052202, 8039204, and 8045132:

The MS (MSD) recoveries for batches 8052202 - silicon, 8039204 - iron, and 8045132 - barium, chromium and lead are outside the established QC limits. The analyte concentrations in the original sample are greater than four times the amount spiked making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8B210162 (1): OW-2359UI
F8B210162 (2): OW-2359L2
F8B210162 (3): OW-2307U
F8B210162 (4): OW-2307L
F8B210162 (5): OW-2324U
F8B210162 (6): OW-2324L

Batches 8052202 and 8045132:

The MS (MSD) recoveries for batches 8052202 (calcium) and 8045132 (silver) are outside the established QC limits. The RPD is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8B210162 (1): OW-2359UI
F8B210162 (2): OW-2359L2
F8B210162 (3): OW-2307U
F8B210162 (4): OW-2307L
F8B210162 (5): OW-2324U
F8B210162 (6): OW-2324L

Batches 8052202 and 8045132:

The samples were analyzed at a dilution due to high concentrations of target analytes. The reporting limits were adjusted for the dilution since no analysis at a lesser dilution was performed.

Affected Samples:

F8B210162 (1): OW-2359UI
F8B210162 (2): OW-2359L2
F8B210162 (3): OW-2307U
F8B210162 (4): OW-2307L
F8B210162 (5): OW-2324U
F8B210162 (6): OW-2324L

Anions (MCAWW 300.0A)

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Nitrite in batch 8052311 is attributed to matrix interference.

Affected Samples:

F8B210162 (1): OW-2359UI
F8B210162 (2): OW-2359L2
F8B210162 (3): OW-2307U
F8B210162 (4): OW-2307L
F8B210162 (5): OW-2324U
F8B210162 (6): OW-2324L

There were no other nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F8B210162

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity	MCAWW 310.1	MCAWW 310.1
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Bromide	MCAWW 300.0A	MCAWW 300.0A
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Ion Balance (%Difference)	SM18 1030F & AP	SM18 1030F & AP
ICP-MS (6020)	SW846 6020	
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrate-Nitrite	MCAWW 353.1	
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM18 "Standard Methods for the Examination of Water and
Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F8B210162

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KHFAN	001	OW-2359UI	02/20/08	09:15
KHFAV	002	OW-2359L2	02/20/08	09:45
KHFD8	003	OW-2307U	02/20/08	11:00
KHFD9	004	OW-2307L	02/20/08	11:15
KHFEC	005	OW-2324U	02/20/08	14:00
KHFEE	006	OW-2324L	02/20/08	14:00

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2359UI

TOTAL Metals

Lot-Sample #...: F8B210162-001

Matrix.....: WATER

Date Sampled...: 02/20/08 09:15 Date Received...: 02/21/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	93100 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHFAN1C2
		Dilution Factor: 10		Analysis Time...: 16:14		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHFAN1C3
		Dilution Factor: 10		Analysis Time...: 21:20		
Potassium	3850	1000	ug/L	SW846 6020	02/21-02/23/08	KHFAN1C4
		Dilution Factor: 10		Analysis Time...: 21:20		
Magnesium	13400	500	ug/L	SW846 6020	02/21-02/23/08	KHFAN1C5
		Dilution Factor: 10		Analysis Time...: 21:20		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHFAN1C6
		Dilution Factor: 10		Analysis Time...: 21:20		
Sodium	111000	500	ug/L	SW846 6020	02/21-02/23/08	KHFAN1C7
		Dilution Factor: 10		Analysis Time...: 21:20		
Silicon	17700 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHFAN1C8
		Dilution Factor: 10		Analysis Time...: 21:20		
Prep Batch #...: 8067296						
Silica	37900	250	ug/L	SW846 6020	03/07/08	KHFAN1DE
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2359UI

General Chemistry

Lot-Sample #...: F8B210162-001 Work Order #...: KHFAAN Matrix.....: WATER
 Date Sampled...: 02/20/08 09:15 Date Received...: 02/21/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	309	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.43	0.25	mg/L	MCAWW 300.0A	02/21/08	8052306
		Dilution Factor: 1		Analysis Time...: 01:03		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	148	20.0	mg/L	MCAWW 300.0A	02/21/08	8052307
		Dilution Factor: 100		Analysis Time...: 05:28		
Fluoride	0.44	0.10	mg/L	MCAWW 300.0A	02/21/08	8052308
		Dilution Factor: 1		Analysis Time...: 01:03		
Ion Balance Difference	3.5	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.71	0.020	mg/L	MCAWW 300.0A	02/21/08	8052310
		Dilution Factor: 1		Analysis Time...: 01:03		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/21/08	8052311
		Dilution Factor: 10		Analysis Time...: 05:16		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	45.6	5.0	mg/L	MCAWW 300.0A	02/21/08	8052309
		Dilution Factor: 10		Analysis Time...: 05:16		
Total Alkalinity	309	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	554	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2359L2

TOTAL Metals

Lot-Sample #...: F8B210162-002

Matrix.....: WATER

Date Sampled...: 02/20/08 09:45 Date Received...: 02/21/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...:	8052202					
Calcium	169000 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHFAV1AN
		Dilution Factor: 10		Analysis Time...: 16:17		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHFAV1AP
		Dilution Factor: 10		Analysis Time...: 21:24		
Potassium	6100	1000	ug/L	SW846 6020	02/21-02/23/08	KHFAV1AQ
		Dilution Factor: 10		Analysis Time...: 21:24		
Magnesium	26700	500	ug/L	SW846 6020	02/21-02/23/08	KHFAV1AR
		Dilution Factor: 10		Analysis Time...: 21:24		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHFAV1AT
		Dilution Factor: 10		Analysis Time...: 21:24		
Sodium	124000	500	ug/L	SW846 6020	02/21-02/23/08	KHFAV1AU
		Dilution Factor: 10		Analysis Time...: 21:24		
Silicon	15300 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHFAV1AV
		Dilution Factor: 10		Analysis Time...: 21:24		
Prep Batch #...:	8067296					
Silica	32700	250	ug/L	SW846 6020	03/07/08	KHFAV1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2359L2

General Chemistry

Lot-Sample #....: F8B210162-002 Work Order #....: KHFAV Matrix.....: WATER
 Date Sampled....: 02/20/08 09:45 Date Received...: 02/21/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	247	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	1.3	0.25	mg/L	MCAWW 300.0A	02/21/08	8052306
		Dilution Factor: 1		Analysis Time...: 12:51		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	415	20.0	mg/L	MCAWW 300.0A	02/21/08	8052307
		Dilution Factor: 100		Analysis Time...: 05:03		
Fluoride	0.23	0.10	mg/L	MCAWW 300.0A	02/21/08	8052308
		Dilution Factor: 1		Analysis Time...: 12:51		
Ion Balance Difference	6.5	0.10	%	SM18 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.55	0.020	mg/L	MCAWW 300.0A	02/21/08	8052310
		Dilution Factor: 1		Analysis Time...: 12:51		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/21/08	8052311
		Dilution Factor: 10		Analysis Time...: 04:51		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	76.0	5.0	mg/L	MCAWW 300.0A	02/21/08	8052309
		Dilution Factor: 10		Analysis Time...: 04:51		
Total Alkalinity	247	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	973	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2307U

TOTAL Metals

Lot-Sample #...: F8B210162-003

Matrix.....: WATER

Date Sampled...: 02/20/08 11:00 Date Received...: 02/21/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 80522202						
Calcium	44900 N	2000	ug/L	SW846 6020	02/21-02/25/08	KHFD81A0
		Dilution Factor: 20		Analysis Time...: 16:21		
Iron	564	500	ug/L	SW846 6020	02/21-02/23/08	KHFD81A1
		Dilution Factor: 10		Analysis Time...: 21:27		
Potassium	3340	1000	ug/L	SW846 6020	02/21-02/23/08	KHFD81A2
		Dilution Factor: 10		Analysis Time...: 21:27		
Magnesium	7040	500	ug/L	SW846 6020	02/21-02/23/08	KHFD81A3
		Dilution Factor: 10		Analysis Time...: 21:27		
Manganese	10.4 B	20	ug/L	SW846 6020	02/21-02/23/08	KHFD81A4
		Dilution Factor: 10		Analysis Time...: 21:27		
Sodium	163000	500	ug/L	SW846 6020	02/21-02/23/08	KHFD81A5
		Dilution Factor: 10		Analysis Time...: 21:27		
Silicon	22600 N*	5000	ug/L	SW846 6020	02/21-02/25/08	KHFD81A6
		Dilution Factor: 20		Analysis Time...: 16:21		
Prep Batch #...: 80672296						
Silica	48400	250	ug/L	SW846 6020	03/07/08	KHFD81CU
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2307U

General Chemistry

Lot-Sample #...: F8B210162-003 Work Order #...: KHFD8 Matrix.....: WATER
 Date Sampled...: 02/20/08 11:00 Date Received...: 02/21/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	490	10.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 2		Analysis Time...: 00:00		
Bromide	0.24 B	0.25	mg/L	MCAWW 300.0A	02/21/08	8052306
		Dilution Factor: 1		Analysis Time...: 12:13		
Carbonate Alkalinity	ND	10.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 2		Analysis Time...: 00:00		
Chloride	59.9	10.0	mg/L	MCAWW 300.0A	02/21/08	8052307
		Dilution Factor: 50		Analysis Time...: 02:59		
Fluoride	1.0	0.10	mg/L	MCAWW 300.0A	02/21/08	8052308
		Dilution Factor: 1		Analysis Time...: 12:13		
Ion Balance Difference	7.9	0.10	%	SM18 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.36	0.020	mg/L	MCAWW 300.0A	02/21/08	8052310
		Dilution Factor: 1		Analysis Time...: 12:13		
Nitrate/Nitrite as N	267	50.0	ug/L	MCAWW 353.1	02/22/08	8053429
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/21/08	8052311
		Dilution Factor: 1		Analysis Time...: 12:13		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	18.9	0.50	mg/L	MCAWW 300.0A	02/21/08	8052309
		Dilution Factor: 1		Analysis Time...: 12:13		
Total Alkalinity	490	10.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 2		Analysis Time...: 00:00		
Total Dissolved Solids	566	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.
Volume 4 Rev. 0-7/18/2008

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2307L

TOTAL Metals

Lot-Sample #...: F8B210162-004

Matrix.....: WATER

Date Sampled...: 02/20/08 11:15 Date Received...: 02/21/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	83900 N	2000	ug/L	SW846 6020	02/21-02/25/08	KHFD91AM
		Dilution Factor: 20		Analysis Time...: 16:24		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHFD91AN
		Dilution Factor: 10		Analysis Time...: 21:31		
Potassium	4970	1000	ug/L	SW846 6020	02/21-02/23/08	KHFD91AP
		Dilution Factor: 10		Analysis Time...: 21:31		
Magnesium	12000	500	ug/L	SW846 6020	02/21-02/23/08	KHFD91AQ
		Dilution Factor: 10		Analysis Time...: 21:31		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHFD91AR
		Dilution Factor: 10		Analysis Time...: 21:31		
Sodium	100000	500	ug/L	SW846 6020	02/21-02/23/08	KHFD91AT
		Dilution Factor: 10		Analysis Time...: 21:31		
Silicon	19400 N*	5000	ug/L	SW846 6020	02/21-02/25/08	KHFD91AU
		Dilution Factor: 20		Analysis Time...: 16:24		
Prep Batch #...: 8067296						
Silica	41500	250	ug/L	SW846 6020	03/07/08	KHFD91A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2307L

General Chemistry

Lot-Sample #...: F8B210162-004 Work Order #...: KHFD9 Matrix.....: WATER
 Date Sampled...: 02/20/08 11:15 Date Received...: 02/21/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	298	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.38	0.25	mg/L	MCAWW 300.0A	02/21/08	8052306
		Dilution Factor: 1		Analysis Time...: 12:01		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	100	10.0	mg/L	MCAWW 300.0A	02/21/08	8052307
		Dilution Factor: 50		Analysis Time...: 02:22		
Fluoride	0.40	0.10	mg/L	MCAWW 300.0A	02/21/08	8052308
		Dilution Factor: 1		Analysis Time...: 12:01		
Ion Balance Difference	0.21	0.10	%	SM18 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	1.4	0.10	mg/L	MCAWW 300.0A	02/21/08	8052310
		Dilution Factor: 5		Analysis Time...: 02:10		
Nitrate/Nitrite as N	329	50.0	ug/L	MCAWW 353.1	02/22/08	8053429
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/21/08	8052311
		Dilution Factor: 1		Analysis Time...: 12:01		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	25.4	2.5	mg/L	MCAWW 300.0A	02/21/08	8052309
		Dilution Factor: 5		Analysis Time...: 02:10		
Total Alkalinity	298	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	466	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method Blank Contamination: The associated method blank contains the target analyte at a reportable level.

DCN# EXE808

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2324U

TOTAL Metals

Lot-Sample #...: F8B210162-005

Matrix.....: WATER

Date Sampled...: 02/20/08 14:00 Date Received...: 02/21/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	111000 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHFEC1AM
		Dilution Factor: 10		Analysis Time...: 16:28		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHFEC1AN
		Dilution Factor: 10		Analysis Time...: 21:43		
Potassium	3610	1000	ug/L	SW846 6020	02/21-02/23/08	KHFEC1AP
		Dilution Factor: 10		Analysis Time...: 21:43		
Magnesium	15600	500	ug/L	SW846 6020	02/21-02/23/08	KHFEC1AQ
		Dilution Factor: 10		Analysis Time...: 21:43		
Manganese	ND	20	ug/L	SW846 6020	02/21-02/23/08	KHFEC1AR
		Dilution Factor: 10		Analysis Time...: 21:43		
Sodium	99900	500	ug/L	SW846 6020	02/21-02/23/08	KHFEC1AT
		Dilution Factor: 10		Analysis Time...: 21:43		
Silicon	17900 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHFEC1AU
		Dilution Factor: 10		Analysis Time...: 21:43		
Prep Batch #...: 8067296						
Silica	38300	250	ug/L	SW846 6020	03/07/08	KHFEC1A2
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2324U

General Chemistry

Lot-Sample #...: F8B210162-005 Work Order #...: KH FEC Matrix.....: WATER
 Date Sampled...: 02/20/08 14:00 Date Received...: 02/21/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	289	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.43	0.25	mg/L	MCAWW 300.0A	02/21/08	8052306
		Dilution Factor: 1		Analysis Time...: 12:38		
Carbonate Alkalinity ND		5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	160	20.0	mg/L	MCAWW 300.0A	02/21/08	8052307
		Dilution Factor: 100		Analysis Time...: 04:39		
Fluoride	0.29	0.10	mg/L	MCAWW 300.0A	02/21/08	8052308
		Dilution Factor: 1		Analysis Time...: 12:38		
Ion Balance Difference	2.1	0.10	%	SML8 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.67	0.020	mg/L	MCAWW 300.0A	02/21/08	8052310
		Dilution Factor: 1		Analysis Time...: 12:38		
Nitrate/Nitrite as N 497		50.0	ug/L	MCAWW 353.1	02/22/08	8053429
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/21/08	8052311
		Dilution Factor: 10		Analysis Time...: 04:01		
Nitrogen, as Ammonia 22.7 B,J		50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	58.3	5.0	mg/L	MCAWW 300.0A	02/21/08	8052309
		Dilution Factor: 10		Analysis Time...: 04:01		
Total Alkalinity	289	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	586	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method Blank Contamination: The associated method blank contains the target analyte at a reportable level.

DCN# EXE808

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2324L

TOTAL Metals

Lot-Sample #...: F8B210162-006

Matrix.....: WATER

Date Sampled...: 02/20/08 14:00 Date Received...: 02/21/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8052202						
Calcium	196000 N	1000	ug/L	SW846 6020	02/21-02/25/08	KHFEE1AM
		Dilution Factor: 10		Analysis Time...: 16:31		
Iron	ND	500	ug/L	SW846 6020	02/21-02/23/08	KHFEE1AN
		Dilution Factor: 10		Analysis Time...: 21:46		
Potassium	6740	1000	ug/L	SW846 6020	02/21-02/23/08	KHFEE1AP
		Dilution Factor: 10		Analysis Time...: 21:46		
Magnesium	33600	500	ug/L	SW846 6020	02/21-02/23/08	KHFEE1AQ
		Dilution Factor: 10		Analysis Time...: 21:46		
Manganese	13.3 B	20	ug/L	SW846 6020	02/21-02/23/08	KHFEE1AR
		Dilution Factor: 10		Analysis Time...: 21:46		
Sodium	138000	500	ug/L	SW846 6020	02/21-02/23/08	KHFEE1AT
		Dilution Factor: 10		Analysis Time...: 21:46		
Silicon	15700 N*	2500	ug/L	SW846 6020	02/21-02/23/08	KHFEE1AU
		Dilution Factor: 10		Analysis Time...: 21:46		
Prep Batch #...: 8067296						
Silica	33600	250	ug/L	SW846 6020	03/07/08	KHFEE1A3
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2324L

General Chemistry

Lot-Sample #...: F8B210162-006 Work Order #...: KHFEF Matrix.....: WATER
 Date Sampled...: 02/20/08 14:00 Date Received...: 02/21/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	249	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	1.6	0.25	mg/L	MCAWW 300.0A	02/21/08	8052306
		Dilution Factor: 1		Analysis Time...: 12:26		
Carbonate Alkalinity ND		5.0	mg/L	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	517	40.0	mg/L	MCAWW 300.0A	02/22/08	8052307
		Dilution Factor: 200		Analysis Time...: 12:16		
Fluoride	0.22	0.10	mg/L	MCAWW 300.0A	02/21/08	8052308
		Dilution Factor: 1		Analysis Time...: 12:26		
Ion Balance Difference	7.1	0.10	%	SM18 1030F & API	02/27/08	8058113
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.54	0.020	mg/L	MCAWW 300.0A	02/21/08	8052310
		Dilution Factor: 1		Analysis Time...: 12:26		
Nitrate/Nitrite as N 158		50.0	ug/L	MCAWW 353.1	02/22/08	8053429
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/21/08	8052311
		Dilution Factor: 10		Analysis Time...: 03:37		
Nitrogen, as Ammonia 22.7 B,J		50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	86.0	5.0	mg/L	MCAWW 300.0A	02/21/08	8052309
		Dilution Factor: 10		Analysis Time...: 03:37		
Total Alkalinity	249	5.0	mg/L	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	1090	5.0	mg/L	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE (S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method Blank Contamination 7/18/2008 Associated method blank contains the target analyte at a level.

DCN# EXE808

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F8B210162

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F8B210000-202 Prep Batch #...: 8052202						
Calcium	ND	100	ug/L	SW846 6020	02/21-02/25/08	KHFJT1AA
		Dilution Factor: 1				
		Analysis Time...: 15:26				
Iron	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AC
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Magnesium	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AE
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Manganese	ND	2	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AF
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Potassium	ND	100	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AD
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Silicon	ND	250	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AH
		Dilution Factor: 1				
		Analysis Time...: 20:32				
Sodium	ND	50	ug/L	SW846 6020	02/21-02/23/08	KHFJT1AG
		Dilution Factor: 1				
		Analysis Time...: 20:32				
MB Lot-Sample #: F8C070000-296 Prep Batch #...: 8067296						
Silica	ND	250	ug/L	SW846 6020	03/07/08	KH71W1AA
		Dilution Factor: 1				
		Analysis Time...: 00:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8B210162

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053134
Work Order #: KHHMN1AA MB Lot-Sample #: F8B220000-134 Dilution Factor: 1 Analysis Time...: 00:00						
Bromide	ND	0.25	mg/L	MCAWW 300.0A	02/21/08	8052306
Work Order #: KHKW11AA MB Lot-Sample #: F8B210000-306 Dilution Factor: 1 Analysis Time...: 11:49						
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/22/08	8053135
Work Order #: KHHM21AA MB Lot-Sample #: F8B220000-135 Dilution Factor: 1 Analysis Time...: 00:00						
Chloride	ND	0.20	mg/L	MCAWW 300.0A	02/21/08	8052307
Work Order #: KHKW21AA MB Lot-Sample #: F8B210000-307 Dilution Factor: 1 Analysis Time...: 11:49						
Fluoride	ND	0.10	mg/L	MCAWW 300.0A	02/21/08	8052308
Work Order #: KHKW51AA MB Lot-Sample #: F8B210000-308 Dilution Factor: 1 Analysis Time...: 11:49						
Nitrate	ND	0.020	mg/L	MCAWW 300.0A	02/21/08	8052310
Work Order #: KHKW71AA MB Lot-Sample #: F8B210000-310 Dilution Factor: 1 Analysis Time...: 11:49						
Nitrate/Nitrite as N	ND	50.0	ug/L	MCAWW 353.1	02/22/08	8053429
Work Order #: KHJ1X1AA MB Lot-Sample #: F8B220000-429 Dilution Factor: 1 Analysis Time...: 00:00						
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/21/08	8052311
Work Order #: KHKW91AA MB Lot-Sample #: F8B210000-311 Dilution Factor: 1 Analysis Time...: 11:49						
Nitrogen, as Ammonia	22.7 B	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
Work Order #: KHJ1N1AA MB Lot-Sample #: F8B220000-421 Dilution Factor: 1 Analysis Time...: 00:00						

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8B210162

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	ND	Work Order #: KHKW61AA 0.50 Dilution Factor: 1 Analysis Time...: 11:49	mg/L	MB Lot-Sample #: F8B210000-309 MCAWW 300.0A	02/21/08	8052309
Total Alkalinity	ND	Work Order #: KHHM81AA 5.0 Dilution Factor: 1 Analysis Time...: 00:00	mg/L	MB Lot-Sample #: F8B220000-136 MCAWW 310.1	02/22/08	8053136
Total Dissolved Solids	ND	Work Order #: KHM9Q1AA 5.0 Dilution Factor: 1 Analysis Time...: 00:00	mg/L	MB Lot-Sample #: F8B250000-085 MCAWW 160.1	02/25-02/26/08	8056085

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: F8B210162

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F8B210000-202 Prep Batch #....: 8052202					
Calcium	101	(85 - 115)	SW846 6020	02/21-02/25/08	KHFJT1AJ
		Dilution Factor: 1		Analysis Time...: 15:30	
Iron	101	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AK
		Dilution Factor: 1		Analysis Time...: 20:36	
Potassium	103	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AL
		Dilution Factor: 1		Analysis Time...: 20:36	
Magnesium	100	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AM
		Dilution Factor: 1		Analysis Time...: 20:36	
Manganese	107	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AN
		Dilution Factor: 1		Analysis Time...: 20:36	
Sodium	99	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AP
		Dilution Factor: 1		Analysis Time...: 20:36	
Silicon	103	(85 - 115)	SW846 6020	02/21-02/23/08	KHFJT1AQ
		Dilution Factor: 1		Analysis Time...: 20:36	
LCS Lot-Sample#: F8C070000-296 Prep Batch #....: 8067296					
Silica	103 N	(0.0- 0.0)	SW846 6020	03/07/08	KH71WLAC
		Dilution Factor: 1		Analysis Time...: 00:00	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: F8B210162

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate		WO#:KHHM1AC-LCS/KHHM1AD-LCSD LCS Lot-Sample#: F8B220000-134				
Alkalinity						
	100	(90 - 110)		MCAWW 310.1	02/22/08	8053134
	100	(90 - 110)	0.49 (0-15)	MCAWW 310.1	02/22/08	8053134
		Dilution Factor: 1		Analysis Time...: 00:00		
Carbonate Alkalinity		WO#:KHHM21AC-LCS/KHHM21AD-LCSD LCS Lot-Sample#: F8B220000-135				
	100	(90 - 110)		MCAWW 310.1	02/22/08	8053135
	100	(90 - 110)	0.49 (0-15)	MCAWW 310.1	02/22/08	8053135
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate/Nitrite as N		WO#:KHJ1X1AC-LCS/KHJ1X1AD-LCSD LCS Lot-Sample#: F8B220000-429				
	97	(90 - 110)		MCAWW 353.1	02/22/08	8053429
	97	(90 - 110)	0.14 (0-20)	MCAWW 353.1	02/22/08	8053429
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrogen, as Ammonia		WO#:KHJ1N1AC-LCS/KHJ1N1AD-LCSD LCS Lot-Sample#: F8B220000-421				
	100	(90 - 110)		MCAWW 350.1	02/22/08	8053421
	99	(90 - 110)	0.22 (0-20)	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Alkalinity		WO#:KHHM81AC-LCS/KHHM81AD-LCSD LCS Lot-Sample#: F8B220000-136				
	100	(90 - 110)		MCAWW 310.1	02/22/08	8053136
	100	(90 - 110)	0.49 (0-15)	MCAWW 310.1	02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids		WO#:KHM9Q1AC-LCS/KHM9Q1AD-LCSD LCS Lot-Sample#: F8B250000-085				
	98	(86 - 115)		MCAWW 160.1	02/25-02/26/08	8056085
	99	(86 - 115)	1.6 (0-15)	MCAWW 160.1	02/25-02/26/08	8056085
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210162

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	105	Work Order #: KHKW11AC (90 - 110)	LCS Lot-Sample#: F8B210000-306 MCAWW 300.0A	02/21/08	8052306
		Dilution Factor: 1	Analysis Time...: 11:36		
Chloride	102	Work Order #: KHKW21AC (90 - 110)	LCS Lot-Sample#: F8B210000-307 MCAWW 300.0A	02/21/08	8052307
		Dilution Factor: 1	Analysis Time...: 11:36		
Fluoride	100	Work Order #: KHKW51AC (90 - 110)	LCS Lot-Sample#: F8B210000-308 MCAWW 300.0A	02/21/08	8052308
		Dilution Factor: 1	Analysis Time...: 11:36		
Nitrate	104	Work Order #: KHKW71AC (90 - 110)	LCS Lot-Sample#: F8B210000-310 MCAWW 300.0A	02/21/08	8052310
		Dilution Factor: 1	Analysis Time...: 11:36		
Nitrite	107	Work Order #: KHKW91AC (90 - 110)	LCS Lot-Sample#: F8B210000-311 MCAWW 300.0A	02/21/08	8052311
		Dilution Factor: 1	Analysis Time...: 11:36		
Sulfate	104	Work Order #: KHKW61AC (90 - 110)	LCS Lot-Sample#: F8B210000-309 MCAWW 300.0A	02/21/08	8052309
		Dilution Factor: 1	Analysis Time...: 11:36		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F8B210162

Matrix.....: WATER

Date Sampled...: 02/19/08 10:00 Date Received...: 02/20/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F8B210151-001 Prep Batch #...: 8052202						
Calcium	69 N	(75 - 125)		SW846 6020	02/21-02/25/08	KHE551CH
	114	(75 - 125) 11	(0-20)	SW846 6020	02/21-02/25/08	KHE551CJ
		Dilution Factor: 10				
		Analysis Time...: 15:40				
Iron	112	(75 - 125)		SW846 6020	02/21-02/23/08	KHE551CK
	121	(75 - 125) 6.6	(0-20)	SW846 6020	02/21-02/23/08	KHE551CL
		Dilution Factor: 10				
		Analysis Time...: 20:46				
Magnesium	99	(75 - 125)		SW846 6020	02/21-02/23/08	KHE551CP
	104	(75 - 125) 2.5	(0-20)	SW846 6020	02/21-02/23/08	KHE551CQ
		Dilution Factor: 10				
		Analysis Time...: 20:46				
Manganese	110	(75 - 125)		SW846 6020	02/21-02/23/08	KHE551CR
	111	(75 - 125) 0.93	(0-20)	SW846 6020	02/21-02/23/08	KHE551CT
		Dilution Factor: 10				
		Analysis Time...: 20:46				
Potassium	101	(75 - 125)		SW846 6020	02/21-02/23/08	KHE551CM
	105	(75 - 125) 2.9	(0-20)	SW846 6020	02/21-02/23/08	KHE551CN
		Dilution Factor: 10				
		Analysis Time...: 20:46				
Silicon	0 N	(75 - 125)		SW846 6020	02/21-02/23/08	KHE551CW
	212 N,*	(75 - 125) 0.0	(0-20)	SW846 6020	02/21-02/23/08	KHE551CX
		Dilution Factor: 10				
		Analysis Time...: 20:46				
Sodium	76	(75 - 125)		SW846 6020	02/21-02/23/08	KHE551CU
	107	(75 - 125) 4.9	(0-20)	SW846 6020	02/21-02/23/08	KHE551CV
		Dilution Factor: 10				
		Analysis Time...: 20:46				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

• N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B210162

Matrix.....: WATER

Date Sampled...: 02/20/08 11:00 Date Received...: 02/21/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	100	Work Order #...: KHFD81CF (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210162-003 02/21/08	8052306
		Dilution Factor: 1		Analysis Time...: 12:13	
Chloride	108	Work Order #...: KHFD81CH (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210162-003 02/21/08	8052307
		Dilution Factor: 50		Analysis Time...: 02:59	
Fluoride	110	Work Order #...: KHFD81CK (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210162-003 02/21/08	8052308
		Dilution Factor: 1		Analysis Time...: 12:13	
Nitrate	105	Work Order #...: KHFD81CP (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210162-003 02/21/08	8052310
		Dilution Factor: 1		Analysis Time...: 12:13	
Nitrate/Nitrite as N	95	Work Order #...: KHFD81CD (90 - 110)	MCAWW 353.1	MS Lot-Sample #: F8B210162-003 02/22-02/25/08	8053429
		Dilution Factor: 1		Analysis Time...: 00:00	
Nitrite	51 N	Work Order #...: KHFD81CR (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210162-003 02/21/08	8052311
		Dilution Factor: 1		Analysis Time...: 12:13	
Nitrogen, as Ammonia	97	Work Order #...: KHE551C0 (90 - 110)	MCAWW 350.1	MS Lot-Sample #: F8B210151-001 02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00	
Sulfate	109	Work Order #...: KHFD81CM (90 - 110)	MCAWW 300.0A	MS Lot-Sample #: F8B210162-003 02/21/08	8052309
		Dilution Factor: 1		Analysis Time...: 12:13	
Total Alkalinity	93	Work Order #...: KHE9E1A4 (80 - 120)	MCAWW 310.1	MS Lot-Sample #: F8B210166-001 02/22/08	8053136
		Dilution Factor: 1		Analysis Time...: 00:00	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

F8B210162

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received: 2008-02-21

Project: 6468071777

Excelon Victoria TEXAS COL

Analytical Due Date: 2008-02-28

PO#: 200803591

Report to: Kathryn White

Report Due Date: 2008-02-28

Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Report Type: W

#SMPS in LOT: 6

EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
1	OW-2359UI			2008-02-20 / 915	KHFAN	WATER
<u>SAMPLE COMMENTS:</u>						
FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
MG MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
SA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	0X CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD	PROT: A WRK LOC 06
SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX ZV	RAD SCREEN		RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX AK	MCAW 160.1 W		Solids, Filterable "TDS" (160.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX C8	MCAW 300.0A W		Fluoride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX C9	MCAW 300.0A W		Nitrate as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CB	MCAW 310.1 W		Alkalinity, Carbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CX	MCAW 300.0A W		Chloride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CY	MCAW 300.0A W		Sulfate (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX GM	MCAW 300.0A W		Bromide (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX GO	MCAW 300.0A W		Nitrite as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX SL	SM18 1030F & API		Ion Balance (% Difference)	0X CALCULATION ONLY	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX UX	MCAW 310.1 W		Alkalinity, Bicarbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX VC	MCAW 310.1 W		Alkalinity, Total (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX VM	MCAW 350.1 W		Nitrogen, Ammonia (350.1, Automated)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
2	OW-2359L2			2008-02-20 / 945	KHFAV	WATER
<u>SAMPLE COMMENTS:</u>						
NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
SA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	0X CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD	PROT: A WRK LOC 06
MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
MG MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX ZV	RAD SCREEN		RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX AK	MCAW 160.1 W		Solids, Filterable "TDS" (160.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06

F8B210162

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received:

2008-02-21

Project: 6468071777

Excelon Victoria TEXAS COL

Analytical Due Date:

2008-02-28

PO#: 200803591

Report to: Kathryn White

Report Due Date:

2008-02-28

Client: 373886 MACTEC Engineering and Consulting Inc

#SMPS in LOT: 6

Report Type: W

EDD Code: 00

RUSH

XX	C8	MCAW	300.0A	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C9	MCAW	300.0A	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CB	MCAW	310.1	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CX	MCAW	300.0A	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CY	MCAW	300.0A	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GM	MCAW	300.0A	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GO	MCAW	300.0A	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	SL	SM18	1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	UX	MCAW	310.1	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VC	MCAW	310.1	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VM	MCAW	350.1	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
3	OW-2307U			2008-02-20 / 1100	KHFD8	WATER

SAMPLE COMMENTS:

KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT:A	WRK LOC	06
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	ZV	RAD	SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	AK	MCAW	160.1	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C8	MCAW	300.0A	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	C9	MCAW	300.0A	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CB	MCAW	310.1	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CX	MCAW	300.0A	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	CY	MCAW	300.0A	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GM	MCAW	300.0A	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	GO	MCAW	300.0A	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	HN	MCAW	353.1	Nitrate-Nitrite (353.1)	23	REDUCTION	01	STANDARD TEST SET	PROT:Z	WRK LOC	06
XX	SL	SM18	1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	UX	MCAW	310.1	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VC	MCAW	310.1	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX	VM	MCAW	350.1	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S XX	C8	MCAW	300.0A	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

F8B210162

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-225,METS

Project Manager: IV

Quote #: 78576

SDG:

Date Received:

2008-02-21

Project: 6468071777

Excelon Victoria TEXAS COL

Analytical Due Date:

2008-02-28

PO#: 200803591

Report to: Kathryn White

Report Due Date:

2008-02-28

Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Report Type: W

#SMPS in LOT: 6

EDD Code: 00

S	XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	HN	MCAW 353.1 W	Nitrate-Nitrite (353.1)	23	REDUCTION	01	STANDARD TEST SET	PROT: Z	WRK LOC	06
X	XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	HN	MCAW 353.1 W	Nitrate-Nitrite (353.1)	23	REDUCTION	01	STANDARD TEST SET	PROT: Z	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
4	OW-2307L			2008-02-20 / 1115	KHFD9	WATER

SAMPLE COMMENTS:

MN	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SI	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC	06
XX	ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	HN	MCAW 353.1 W	Nitrate-Nitrite (353.1)	23	REDUCTION	01	STANDARD TEST SET	PROT: Z	WRK LOC	06
XX	SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

F8B210162

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-225,METS

Project Manager: IV Quote #: 78576 SDG:
 Project: 6468071777 Excelon Victoria TEXAS COL
 PO#: 200803591 Report to: Kathryn White
 Client: 373886 MACTEC Engineering and Consulting Inc

Date Received: 2008-02-21
 Analytical Due Date: 2008-02-28
 Report Due Date: 2008-02-28

RUSH

Report Type: W
 EDD Code: 00

#SMPS in LOT: 6

XX	VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SAMPLE #		CLIENT SAMPLE ID		Site ID	Client Matrix	DATE/TIME SAMPLED		WORKORDER		I
5		OW-2324U				2008-02-20/ 1400		KHFEC	WATER	
SAMPLE COMMENTS:										
MN	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SI	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC	06
XX	ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	HN	MCAW 353.1 W	Nitrate-Nitrite (353.1)	23	REDUCTION	01	STANDARD TEST SET	PROT: Z	WRK LOC	06
XX	SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
6	OW-2324L			2008-02-20/ 1400	KHFEE	WATER
<u>SAMPLE COMMENTS:</u>						
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A	WRK LOC 06
SA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC 06
MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A	WRK LOC 06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A	WRK LOC 06
KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A	WRK LOC 06
FE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A	WRK LOC 06
CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A	WRK LOC 06
SI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A	WRK LOC 06

F8B210162

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-225,METS

Project Manager: IV

Quote #: 78576 SDG:

Date Received: 2008-02-21

Project: 6468071777

Excelon Victoria TEXAS COL

Analytical Due Date: 2008-02-28

PO#: 200803591

Report to: Kathryn White

Report Due Date: 2008-02-28

Client: 373886 MACTEC Engineering and Consulting Inc

#SMPS in LOT: 6

Report Type: W

EDD Code: 00

RUSH

XX ZV	RAD SCREEN	RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK 06
XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX HN	MCAW 353.1 W	Nitrate-Nitrite (353.1)	23 REDUCTION	01 STANDARD TEST SET	PROT: Z	WRK 06
XX SL	SM18 1030F & API	Ion Balance (% Difference)	0X CALCULATION ONLY	01 STANDARD TEST SET	PROT: A	WRK 06
XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06
X XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A	WRK 06

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

- 2124^{Lot # (s):} F08210162

Client: Maclec COC/RFA No: 061792 Condition Upon Receipt Form
 Quote No: 78576 Initiated By: 8/ Date: 02-21-08
 Time: 0915

Shipper Name: FedEx Shipping Information

Shipping # (s):*

1. 7988 7865 6419 6. _____
 2. _____ 7. _____
 3. _____ 8. _____
 4. _____ 9. _____
 5. _____ 10. _____

Multiple Packages Y N

Sample Temperature (s):**

1. 20 6. _____
 2. _____ 7. _____
 3. _____ 8. _____
 4. _____ 9. _____
 5. _____ 10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?	11. <input type="radio"/> Y <input type="radio"/> N	If N/A- Was pH taken by original TestAmerica lab?
5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
6. <input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input type="radio"/> Y <input type="radio"/> N	Was Internal COC/Workshare received?

For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

☐ Client Contact Name:

Informed by:

☐ Sample(s) processed "as is"☐ Sample(s) on hold until:

If released, notify:

Project Management Review:

Date:

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE DATA REVIEWER, THE PERSON IS REQUIRED TO APPLY THE DATE AND THE DATE NEXT TO THAT ITEM.

DCN# EXE808

ADMIN-0004, REVISED 08/06/07\SL\svr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc



DOCUMENTATION OF TECHNICAL REVIEW
SUBCONTRACTOR WORK PRODUCT

Project Name: Exelon COL Project

Project Number: 6468-07-1777

Project Manager: Scott Auger

Project Principal: Kathryn White

The report described below has been prepared by the named subcontractor retained in accordance with the MACTEC QAPD. The work and report have been reviewed by a MACTEC technically qualified person. Comments on the work or report, if any, have been satisfactorily addressed by the subcontractor. The attached report is approved in accordance with section QS-7 of MACTEC's QAPD.

The information and data contained in the attached report are hereby released by MACTEC for project use. Based on the presence of ammonia in the method blank associated with samples OW-2319U and OW-2319L, MACTEC recommends using these data as non-detect values at the Reporting Limit of 50 µg/L.

REPORT : Analytical Report Lot #: F8B220240

SUBCONTRACTOR: TestAmerica, Earth City, MO

DATE OF ACCEPTANCE : 4/10/2008

TECHNICAL REVIEWER: William S. Grimes

PROJECT PRINCIPAL: Kathryn A. White





ANALYTICAL REPORT

PROJECT NO. 6468071777

Excelon Victoria TEXAS COL

Lot #: F8B220240

Kathryn White

MACTEC Engineering & Consultin
3301 Atlantic Ave
Raleigh, NC 27604

TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Ivan Vania", is written over a horizontal line.

Ivan Vania
Project Manager

March 10, 2008

Case Narrative
LOT NUMBER: F8B220240

This report contains the analytical results for the six samples received under chain of custody by TestAmerica St. Louis on February 22, 2008. These samples are associated with your Excelon Victoria TEXAS COL project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Due to limitations of the data reporting system method 6020 is reported for metals analysis; however, 6020C was used to perform the analysis.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

ICP-MS (SW846-6020)

Batch 8056166:

Analysis of the sample designated for MS/MSD is a sufficiently high concentration of silicon that the MS/MSD are above the instrument's calibration range. MS/MSD results are reported as estimated values.

Affected Samples:

F8B220240 (1): OW-2319U
F8B220240 (2): OW-2319L
F8B220240 (3): OW-2304U
F8B220240 (4): OW-2304L
F8B220240 (5): OW-2302U
F8B220240 (6): OW-2302L

Batch 8056166:

The MS (MSD) recovery for silicon is outside the established QC limits. The said analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8B220240 (1): OW-2319U
F8B220240 (2): OW-2319L
F8B220240 (3): OW-2304U
F8B220240 (4): OW-2304L
F8B220240 (5): OW-2302U
F8B220240 (6): OW-2302L

Batch 8056166:

The samples were analyzed at a dilution due to high concentrations of target analytes. The reporting limit has been adjusted for the dilution since no analysis at a lesser dilution was performed.

Affected Samples:

F8B220240 (1): OW-2319U
F8B220240 (2): OW-2319L
F8B220240 (3): OW-2304U
F8B220240 (4): OW-2304L
F8B220240 (5): OW-2302U
F8B220240 (6): OW-2302L

Anions (MCAWW 300.0A)

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Chloride in batch 8053330 and Nitrite in batch 8053334 is attributed to matrix interference.

Affected Samples:

F8B220240 (1): OW-2319U
F8B220240 (2): OW-2319L
F8B220240 (3): OW-2304U
F8B220240 (4): OW-2304L
F8B220240 (5): OW-2302U
F8B220240 (6): OW-2302L

There were no other nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F8B220240

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity	MCAWW 310.1	MCAWW 310.1
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Bromide	MCAWW 300.0A	MCAWW 300.0A
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Ion Balance (%Difference)	SM18 1030F & AP	SM18 1030F & AP
ICP-MS (6020)	SW846 6020	
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM18 "Standard Methods for the Examination of Water and
Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F8B220240

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KHH6P	001	OW-2319U	02/21/08	10:05
KHH68	002	OW-2319L	02/21/08	10:40
KHH7C	003	OW-2304U	02/21/08	12:15
KHH7E	004	OW-2304L	02/21/08	12:20
KHH7F	005	OW-2302U	02/21/08	14:05
KHH7H	006	OW-2302L	02/21/08	14:35

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2319U

TOTAL Metals

Lot-Sample #....: F8B220240-001

Matrix.....: WATER

Date Sampled....: 02/21/08 10:05 Date Received...: 02/22/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 8056166						
Calcium	72500	1000	ug/L	SW846 6020	02/25-02/26/08	KHH6P1AM
		Dilution Factor: 10		Analysis Time...: 13:56		
Iron	ND	500	ug/L	SW846 6020	02/25-02/26/08	KHH6P1AN
		Dilution Factor: 10		Analysis Time...: 16:50		
Potassium	4100	1000	ug/L	SW846 6020	02/25-02/26/08	KHH6P1AP
		Dilution Factor: 10		Analysis Time...: 13:56		
Magnesium	12400 E	500	ug/L	SW846 6020	02/25-02/26/08	KHH6P1AQ
		Dilution Factor: 10		Analysis Time...: 13:56		
Manganese	ND	20	ug/L	SW846 6020	02/25-02/26/08	KHH6P1AR
		Dilution Factor: 10		Analysis Time...: 13:56		
Sodium	147000	500	ug/L	SW846 6020	02/25-02/26/08	KHH6P1AT
		Dilution Factor: 10		Analysis Time...: 13:56		
Silicon	18800 N	2500	ug/L	SW846 6020	02/25-02/26/08	KHH6P1AU
		Dilution Factor: 10		Analysis Time...: 13:56		
Prep Batch #....: 8067310						
Silica	40200	250	ug/L	SW846 6020	03/07/08	KHH6P1CH
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

E Matrix interference.

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2319U

General Chemistry

Lot-Sample #...: F8B220240-001 Work Order #...: KHH6P Matrix.....: WATER
 Date Sampled...: 02/21/08 10:05 Date Received...: 02/22/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate	378	5.0	mg/L	MCAWW 310.1	02/25/08	8056133
Alkalinity						
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.58	0.25	mg/L	MCAWW 300.0A	02/22/08	8053329
		Dilution Factor: 1		Analysis Time...: 02:41		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/25/08	8056134
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	163	20.0	mg/L	MCAWW 300.0A	02/22/08	8053330
		Dilution Factor: 100		Analysis Time...: 08:46		
Fluoride	0.53	0.10	mg/L	MCAWW 300.0A	02/22/08	8053331
		Dilution Factor: 1		Analysis Time...: 02:41		
Ion Balance Difference	7.5	0.10	%	SML8 1030F & API	02/28/08	8059300
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.63	0.020	mg/L	MCAWW 300.0A	02/22/08	8053333
		Dilution Factor: 1		Analysis Time...: 02:41		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/22/08	8053334
		Dilution Factor: 10		Analysis Time...: 08:34		
Nitrogen, as Ammonia	22.7 B,J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	41.1	5.0	mg/L	MCAWW 300.0A	02/22/08	8053332
		Dilution Factor: 10		Analysis Time...: 08:34		
Total Alkalinity	378	5.0	mg/L	MCAWW 310.1	02/25/08	8056136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	665	5.0	mg/L	MCAWW 160.1	02/27/08	8056086
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2319L

TOTAL Metals

Lot-Sample #...: F8B220240-002

Matrix.....: WATER

Date Sampled...: 02/21/08 10:40 Date Received...: 02/22/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	8056166					
Calcium	229000	1000	ug/L	SW846 6020	02/25-02/26/08	KHH681AN
		Dilution Factor: 10		Analysis Time...: 14:19		
Iron	6650	500	ug/L	SW846 6020	02/25-02/26/08	KHH681AP
		Dilution Factor: 10		Analysis Time...: 17:04		
Potassium	7580	1000	ug/L	SW846 6020	02/25-02/26/08	KHH681AQ
		Dilution Factor: 10		Analysis Time...: 14:19		
Magnesium	35700 E	500	ug/L	SW846 6020	02/25-02/26/08	KHH681AR
		Dilution Factor: 10		Analysis Time...: 14:19		
Manganese	108	20	ug/L	SW846 6020	02/25-02/26/08	KHH681AT
		Dilution Factor: 10		Analysis Time...: 14:19		
Sodium	189000	500	ug/L	SW846 6020	02/25-02/26/08	KHH681AU
		Dilution Factor: 10		Analysis Time...: 14:19		
Silicon	43300 N	12500	ug/L	SW846 6020	02/25-02/26/08	KHH681AV
		Dilution Factor: 50		Analysis Time...: 15:08		
Prep Batch #...	8067310					
Silica	92700	250	ug/L	SW846 6020	03/07/08	KHH681A1
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

E Matrix interference.

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2319L

General Chemistry

Lot-Sample #...: F8B220240-002 Work Order #...: KHH68 Matrix.....: WATER
 Date Sampled...: 02/21/08 10:40 Date Received...: 02/22/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	310	5.0	mg/L	MCAWW 310.1	02/25/08	8056133
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	1.2	0.25	mg/L	MCAWW 300.0A	02/22/08	8053329
		Dilution Factor: 1		Analysis Time...: 02:29		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/25/08	8056134
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	480	20.0	mg/L	MCAWW 300.0A	02/22/08	8053330
		Dilution Factor: 100		Analysis Time...: 08:22		
Fluoride	0.26	0.10	mg/L	MCAWW 300.0A	02/22/08	8053331
		Dilution Factor: 1		Analysis Time...: 02:29		
Ion Balance Difference	6.2	0.10	%	SM18 1030F & API	02/28/08	8059300
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.43	0.020	mg/L	MCAWW 300.0A	02/22/08	8053333
		Dilution Factor: 1		Analysis Time...: 02:29		
Nitrite	ND	0.40	mg/L	MCAWW 300.0A	02/22/08	8053334
		Dilution Factor: 20		Analysis Time...: 08:09		
Nitrogen, as Ammonia	31.5 B, J	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	198	10.0	mg/L	MCAWW 300.0A	02/22/08	8053332
		Dilution Factor: 20		Analysis Time...: 08:09		
Total Alkalinity	310	5.0	mg/L	MCAWW 310.1	02/25/08	8056136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	1340	5.0	mg/L	MCAWW 160.1	02/27/08	8056086
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2304U

TOTAL Metals

Lot-Sample #...: F8B220240-003

Matrix.....: WATER

Date Sampled...: 02/21/08 12:15 Date Received...: 02/22/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8056166						
Calcium	206000	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7C1AN
		Dilution Factor: 10		Analysis Time...: 14:23		
Iron	140 B	500	ug/L	SW846 6020	02/25-02/26/08	KHH7C1AP
		Dilution Factor: 10		Analysis Time...: 17:08		
Potassium	3500	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7C1AQ
		Dilution Factor: 10		Analysis Time...: 14:23		
Magnesium	27000 E	500	ug/L	SW846 6020	02/25-02/26/08	KHH7C1AR
		Dilution Factor: 10		Analysis Time...: 14:23		
Manganese	9.9 B	20	ug/L	SW846 6020	02/25-02/26/08	KHH7C1AT
		Dilution Factor: 10		Analysis Time...: 14:23		
Sodium	152000	500	ug/L	SW846 6020	02/25-02/26/08	KHH7C1AU
		Dilution Factor: 10		Analysis Time...: 14:23		
Silicon	19400 N	2500	ug/L	SW846 6020	02/25-02/26/08	KHH7C1AV
		Dilution Factor: 10		Analysis Time...: 14:23		
Prep Batch #...: 8067310						
Silica	41500	250	ug/L	SW846 6020	03/07/08	KHH7C1A3
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

B Estimated result. Result is less than RL.

E Matrix Interference.

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2304U

General Chemistry

Lot-Sample #....: F8B220240-003 Work Order #....: KHH7C Matrix.....: WATER
 Date Sampled....: 02/21/08 12:15 Date Received...: 02/22/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	399	5.0	mg/L	MCAWW 310.1	02/25/08	8056133
				Dilution Factor: 1	Analysis Time...: 00:00	
Bromide	1.9	0.25	mg/L	MCAWW 300.0A	02/22/08	8053329
				Dilution Factor: 1	Analysis Time...: 02:16	
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/25/08	8056134
				Dilution Factor: 1	Analysis Time...: 00:00	
Chloride	441	20.0	mg/L	MCAWW 300.0A	02/22/08	8053330
				Dilution Factor: 100	Analysis Time...: 07:32	
Fluoride	0.30	0.10	mg/L	MCAWW 300.0A	02/22/08	8053331
				Dilution Factor: 1	Analysis Time...: 02:16	
Ion Balance Difference	3.8	0.10	%	SML8 1030F & API	02/28/08	8059300
				Dilution Factor: 1	Analysis Time...: 00:00	
Nitrate	2.1	0.20	mg/L	MCAWW 300.0A	02/22/08	8053333
				Dilution Factor: 10	Analysis Time...: 07:20	
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/22/08	8053334
				Dilution Factor: 10	Analysis Time...: 07:20	
Nitrogen, as Ammonia	ND	50.0	ug/L	MCAWW 350.1	02/22/08	8053422
				Dilution Factor: 1	Analysis Time...: 00:00	
Sulfate	17.1	0.50	mg/L	MCAWW 300.0A	02/22/08	8053332
				Dilution Factor: 1	Analysis Time...: 02:16	
Total Alkalinity	399	5.0	mg/L	MCAWW 310.1	02/25/08	8056136
				Dilution Factor: 1	Analysis Time...: 00:00	
Total Dissolved Solids	1200	5.0	mg/L	MCAWW 160.1	02/27/08	8056086
				Dilution Factor: 1	Analysis Time...: 00:00	

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2304L

TOTAL Metals

Lot-Sample #....: F8B220240-004

Matrix.....: WATER

Date Sampled....: 02/21/08 12:20 Date Received...: 02/22/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 8056166						
Calcium	192000	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7E1AN
		Dilution Factor: 10		Analysis Time...: 14:26		
Iron	ND	500	ug/L	SW846 6020	02/25-02/26/08	KHH7E1AP
		Dilution Factor: 10		Analysis Time...: 17:11		
Potassium	5200	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7E1AQ
		Dilution Factor: 10		Analysis Time...: 14:26		
Magnesium	38200 E	500	ug/L	SW846 6020	02/25-02/26/08	KHH7E1AR
		Dilution Factor: 10		Analysis Time...: 14:26		
Manganese	ND	20	ug/L	SW846 6020	02/25-02/26/08	KHH7E1AT
		Dilution Factor: 10		Analysis Time...: 14:26		
Sodium	151000	500	ug/L	SW846 6020	02/25-02/26/08	KHH7E1AU
		Dilution Factor: 10		Analysis Time...: 14:26		
Silicon	19000 N	2500	ug/L	SW846 6020	02/25-02/26/08	KHH7E1AV
		Dilution Factor: 10		Analysis Time...: 14:26		
Prep Batch #....: 8067310						
Silica	40700	250	ug/L	SW846 6020	03/07/08	KHH7E1A1
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

E Matrix interference.

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2304L

General Chemistry

Lot-Sample #...: F8B220240-004 Work Order #...: KHH7E Matrix.....: WATER
 Date Sampled...: 02/21/08 12:20 Date Received...: 02/22/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	300	5.0	mg/L	MCAWW 310.1	02/25/08	8056133
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	1.4	0.25	mg/L	MCAWW 300.0A	02/22/08	8053329
		Dilution Factor: 1		Analysis Time...: 02:04		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/25/08	8056134
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	436	20.0	mg/L	MCAWW 300.0A	02/22/08	8053330
		Dilution Factor: 100		Analysis Time...: 07:07		
Fluoride	0.38	0.10	mg/L	MCAWW 300.0A	02/22/08	8053331
		Dilution Factor: 1		Analysis Time...: 02:04		
Ion Balance Difference	5.6	0.10	%	SM18 1030F & API	02/28/08	8059300
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.32	0.020	mg/L	MCAWW 300.0A	02/22/08	8053333
		Dilution Factor: 1		Analysis Time...: 02:04		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/22/08	8053334
		Dilution Factor: 10		Analysis Time...: 06:55		
Nitrogen, as Ammonia	19.7 B	50.0	ug/L	MCAWW 350.1	02/22/08	8053422
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	153	5.0	mg/L	MCAWW 300.0A	02/22/08	8053332
		Dilution Factor: 10		Analysis Time...: 06:55		
Total Alkalinity	300	5.0	mg/L	MCAWW 310.1	02/25/08	8056136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	1160	5.0	mg/L	MCAWW 160.1	02/27/08	8056086
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2302U

TOTAL Metals

Lot-Sample #...: F8B220240-005

Matrix.....: WATER

Date Sampled...: 02/21/08 14:05 Date Received...: 02/22/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8056166						
Calcium	91300	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7F1AN
		Dilution Factor: 10		Analysis Time...: 14:30		
Iron	ND	500	ug/L	SW846 6020	02/25-02/26/08	KHH7F1AP
		Dilution Factor: 10		Analysis Time...: 17:15		
Potassium	4550	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7F1AQ
		Dilution Factor: 10		Analysis Time...: 14:30		
Magnesium	12400 E	500	ug/L	SW846 6020	02/25-02/26/08	KHH7F1AR
		Dilution Factor: 10		Analysis Time...: 14:30		
Manganese	ND	20	ug/L	SW846 6020	02/25-02/26/08	KHH7F1AT
		Dilution Factor: 10		Analysis Time...: 14:30		
Sodium	119000	500	ug/L	SW846 6020	02/25-02/26/08	KHH7F1AU
		Dilution Factor: 10		Analysis Time...: 14:30		
Silicon	18500 N	5000	ug/L	SW846 6020	02/25-02/26/08	KHH7F1AV
		Dilution Factor: 20		Analysis Time...: 15:12		
Prep Batch #...: 8067310						
Silica	39600	250	ug/L	SW846 6020	03/07/08	KHH7F1CE
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

E Matrix interference.

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2302U

General Chemistry

Lot-Sample #...: F8B220240-005 Work Order #...: KHH7F Matrix.....: WATER
 Date Sampled...: 02/21/08 14:05 Date Received...: 02/22/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	339	5.0	mg/L	MCAWW 310.1	02/25/08	8056133
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	0.35	0.25	mg/L	MCAWW 300.0A	02/22/08	8053329
		Dilution Factor: 1		Analysis Time...: 01:52		
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/25/08	8056134
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	110	10.0	mg/L	MCAWW 300.0A	02/22/08	8053330
		Dilution Factor: 50		Analysis Time...: 05:03		
Fluoride	0.44	0.10	mg/L	MCAWW 300.0A	02/22/08	8053331
		Dilution Factor: 1		Analysis Time...: 01:52		
Ion Balance Difference	1.6	0.10	%	SM18 1030F & API	02/28/08	8059300
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.73	0.020	mg/L	MCAWW 300.0A	02/22/08	8053333
		Dilution Factor: 1		Analysis Time...: 01:52		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/22/08	8053334
		Dilution Factor: 1		Analysis Time...: 01:52		
Nitrogen, as Ammonia	ND	50.0	ug/L	MCAWW 350.1	02/22/08	8053422
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	26.1	5.0	mg/L	MCAWW 300.0A	02/22/08	8053332
		Dilution Factor: 10		Analysis Time...: 04:50		
Total Alkalinity	339	5.0	mg/L	MCAWW 310.1	02/25/08	8056136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	574	5.0	mg/L	MCAWW 160.1	02/27/08	8056086
		Dilution Factor: 1		Analysis Time...: 00:00		

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2302L

TOTAL Metals

Lot-Sample #...: F8B220240-006

Matrix.....: WATER

Date Sampled...: 02/21/08 14:35 Date Received...: 02/22/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8056166						
Calcium	265000	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7H1AN
		Dilution Factor: 10		Analysis Time...: 14:34		
Iron	18300	500	ug/L	SW846 6020	02/25-02/26/08	KHH7H1AP
		Dilution Factor: 10		Analysis Time...: 17:27		
Potassium	9690	1000	ug/L	SW846 6020	02/25-02/26/08	KHH7H1AQ
		Dilution Factor: 10		Analysis Time...: 14:34		
Magnesium	30800 E	500	ug/L	SW846 6020	02/25-02/26/08	KHH7H1AR
		Dilution Factor: 10		Analysis Time...: 14:34		
Manganese	254	20	ug/L	SW846 6020	02/25-02/26/08	KHH7H1AT
		Dilution Factor: 10		Analysis Time...: 14:34		
Sodium	167000	500	ug/L	SW846 6020	02/25-02/26/08	KHH7H1AU
		Dilution Factor: 10		Analysis Time...: 14:34		
Silicon	72300 N	12500	ug/L	SW846 6020	02/25-02/26/08	KHH7H1AV
		Dilution Factor: 50		Analysis Time...: 15:15		
Prep Batch #...: 8067310						
Silica	155000	250	ug/L	SW846 6020	03/07/08	KHH7H1A5
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S):

E Matrix interference.

N Spiked analyte recovery is outside stated control limits.

MACTEC Engineering and Consulting Inc

Client Sample ID: OW-2302L

General Chemistry

Lot-Sample #...: F8B220240-006 Work Order #...: KHH7H
 Date Sampled...: 02/21/08 14:35 Date Received...: 02/22/08

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	308	5.0	mg/L	MCAWW 310.1	02/25/08	8056133
		Dilution Factor: 1		Analysis Time...: 00:00		
Bromide	1.1	0.25	mg/L	MCAWW 300.0A	02/22/08	8053329
		Dilution Factor: 1		Analysis Time...: 01:39		
Carbonate Alkalinity ND		5.0	mg/L	MCAWW 310.1	02/25/08	8056134
		Dilution Factor: 1		Analysis Time...: 00:00		
Chloride	440	20.0	mg/L	MCAWW 300.0A	02/22/08	8053330
		Dilution Factor: 100		Analysis Time...: 04:38		
Fluoride	0.23	0.10	mg/L	MCAWW 300.0A	02/22/08	8053331
		Dilution Factor: 1		Analysis Time...: 01:39		
Ion Balance Difference	4.0	0.10	%	SM18 1030F & API	02/28/08	8059300
		Dilution Factor: 1		Analysis Time...: 00:00		
Nitrate	0.56	0.020	mg/L	MCAWW 300.0A	02/22/08	8053333
		Dilution Factor: 1		Analysis Time...: 01:39		
Nitrite	ND	0.20	mg/L	MCAWW 300.0A	02/22/08	8053334
		Dilution Factor: 10		Analysis Time...: 04:26		
Nitrogen, as Ammonia 17.8 B		50.0	ug/L	MCAWW 350.1	02/22/08	8053422
		Dilution Factor: 1		Analysis Time...: 00:00		
Sulfate	125	5.0	mg/L	MCAWW 300.0A	02/22/08	8053332
		Dilution Factor: 10		Analysis Time...: 04:26		
Total Alkalinity	308	5.0	mg/L	MCAWW 310.1	02/25/08	8056136
		Dilution Factor: 1		Analysis Time...: 00:00		
Total Dissolved Solids	1180	5.0	mg/L	MCAWW 160.1	02/27/08	8056086
		Dilution Factor: 1		Analysis Time...: 00:00		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F8B220240

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F8B250000-166 Prep Batch #...: 8056166						
Calcium	ND	100	ug/L	SW846 6020	02/25-02/26/08	KHKW01AA
		Dilution Factor: 1				
		Analysis Time...: 13:49				
Iron	7.6 B	50	ug/L	SW846 6020	02/25-02/26/08	KHKW01AC
		Dilution Factor: 1				
		Analysis Time...: 16:43				
Magnesium	ND	50	ug/L	SW846 6020	02/25-02/26/08	KHKW01AE
		Dilution Factor: 1				
		Analysis Time...: 13:49				
Manganese	ND	2	ug/L	SW846 6020	02/25-02/26/08	KHKW01AF
		Dilution Factor: 1				
		Analysis Time...: 13:49				
Potassium	ND	100	ug/L	SW846 6020	02/25-02/26/08	KHKW01AD
		Dilution Factor: 1				
		Analysis Time...: 13:49				
Silicon	ND	250	ug/L	SW846 6020	02/25-02/26/08	KHKW01AH
		Dilution Factor: 1				
		Analysis Time...: 13:49				
Sodium	6.4 B	50	ug/L	SW846 6020	02/25-02/26/08	KHKW01AG
		Dilution Factor: 1				
		Analysis Time...: 13:49				
MB Lot-Sample #: F8C070000-310 Prep Batch #...: 8067310						
Silica	ND	250	ug/L	SW846 6020	03/07/08	KH74H1AA
		Dilution Factor: 1				
		Analysis Time...: 00:00				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: F8B220240

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/25/08	8056133
		Work Order #: KHKXE1AA MB Lot-Sample #: F8B250000-133				
		Dilution Factor: 1				
		Analysis Time...: 00:00				
Bromide	ND	0.25	mg/L	MCAWW 300.0A	02/22/08	8053329
		Work Order #: KHK6R1AA MB Lot-Sample #: F8B220000-329				
		Dilution Factor: 1				
		Analysis Time...: 01:27				
Carbonate Alkalinity	ND	5.0	mg/L	MCAWW 310.1	02/25/08	8056134
		Work Order #: KHKXG1AA MB Lot-Sample #: F8B250000-134				
		Dilution Factor: 1				
		Analysis Time...: 00:00				
Chloride	ND	0.20	mg/L	MCAWW 300.0A	02/22/08	8053330
		Work Order #: KHK6T1AA MB Lot-Sample #: F8B220000-330				
		Dilution Factor: 1				
		Analysis Time...: 01:27				
Fluoride	ND	0.10	mg/L	MCAWW 300.0A	02/22/08	8053331
		Work Order #: KHK6W1AA MB Lot-Sample #: F8B220000-331				
		Dilution Factor: 1				
		Analysis Time...: 01:27				
Nitrate	ND	0.020	mg/L	MCAWW 300.0A	02/22/08	8053333
		Work Order #: KHK611AA MB Lot-Sample #: F8B220000-333				
		Dilution Factor: 1				
		Analysis Time...: 01:27				
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	02/22/08	8053334
		Work Order #: KHK621AA MB Lot-Sample #: F8B220000-334				
		Dilution Factor: 1				
		Analysis Time...: 01:27				
Nitrogen, as Ammonia	22.7 B	50.0	ug/L	MCAWW 350.1	02/22/08	8053421
		Work Order #: KHJ1N1AA MB Lot-Sample #: F8B220000-421				
		Dilution Factor: 1				
		Analysis Time...: 00:00				
Nitrogen, as Ammonia	ND	50.0	ug/L	MCAWW 350.1	02/22/08	8053422
		Work Order #: KHJ1P1AA MB Lot-Sample #: F8B220000-422				
		Dilution Factor: 1				
		Analysis Time...: 00:00				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8B220240

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	ND	Work Order #: KHK601AA 0.50 Dilution Factor: 1 Analysis Time...: 01:27	mg/L	MB Lot-Sample #: F8B220000-332 MCAWW 300.0A	02/22/08	8053332
Total Alkalinity	ND	Work Order #: KHKXJ1AA 5.0 Dilution Factor: 1 Analysis Time...: 00:00	mg/L	MB Lot-Sample #: F8B250000-136 MCAWW 310.1	02/25/08	8056136
Total Dissolved Solids	ND	Work Order #: KHR9Q1AA 5.0 Dilution Factor: 1 Analysis Time...: 00:00	mg/L	MB Lot-Sample #: F8B250000-086 MCAWW 160.1	02/27/08	8056086

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: F8B220240

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F8B250000-166 Prep Batch #....: 8056166					
Calcium	102	(85 - 115)	SW846 6020	02/25-02/26/08	KHKW01AJ
		Dilution Factor: 1		Analysis Time...: 13:53	
Iron	92	(85 - 115)	SW846 6020	02/25-02/26/08	KHKW01AK
		Dilution Factor: 1		Analysis Time...: 16:47	
Potassium	92	(85 - 115)	SW846 6020	02/25-02/26/08	KHKW01AL
		Dilution Factor: 1		Analysis Time...: 13:53	
Magnesium	88	(85 - 115)	SW846 6020	02/25-02/26/08	KHKW01AM
		Dilution Factor: 1		Analysis Time...: 13:53	
Manganese	97	(85 - 115)	SW846 6020	02/25-02/26/08	KHKW01AN
		Dilution Factor: 1		Analysis Time...: 13:53	
Sodium	86	(85 - 115)	SW846 6020	02/25-02/26/08	KHKW01AP
		Dilution Factor: 1		Analysis Time...: 13:53	
Silicon	96	(85 - 115)	SW846 6020	02/25-02/26/08	KHKW01AQ
		Dilution Factor: 1		Analysis Time...: 13:53	
LCS Lot-Sample#: F8C070000-310 Prep Batch #....: 8067310					
Silica	96 N	(0.0- 0.0)	SW846 6020	03/07/08	KH74H1AC
		Dilution Factor: 1		Analysis Time...: 00:00	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: F8B220240

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #	
Bicarbonate Alkalinity		WO#:KHKXE1AC-LCS/KHKXE1AD-LCSD LCS Lot-Sample#: F8B250000-133					
	100	(90 - 110)		MCAWW 310.1	02/25/08	8056133	
	99	(90 - 110)	1.0 (0-15)	MCAWW 310.1	02/25/08	8056133	
		Dilution Factor: 1		Analysis Time...: 00:00			
Carbonate Alkalinity		WO#:KHKXG1AC-LCS/KHKXG1AD-LCSD LCS Lot-Sample#: F8B250000-134					
	100	(90 - 110)		MCAWW 310.1	02/25/08	8056134	
	99	(90 - 110)	1.0 (0-15)	MCAWW 310.1	02/25/08	8056134	
		Dilution Factor: 1		Analysis Time...: 00:00			
Nitrogen, as Ammonia		WO#:KHJ1N1AC-LCS/KHJ1N1AD-LCSD LCS Lot-Sample#: F8B220000-421					
	100	(90 - 110)		MCAWW 350.1	02/22/08	8053421	
	99	(90 - 110)	0.22 (0-20)	MCAWW 350.1	02/22/08	8053421	
		Dilution Factor: 1		Analysis Time...: 00:00			
Nitrogen, as Ammonia		WO#:KHJ1P1AC-LCS/KHJ1P1AD-LCSD LCS Lot-Sample#: F8B220000-422					
	103	(90 - 110)		MCAWW 350.1	02/22/08	8053422	
	101	(90 - 110)	1.5 (0-20)	MCAWW 350.1	02/22/08	8053422	
		Dilution Factor: 1		Analysis Time...: 00:00			
Total Alkalinity		WO#:KHKXJ1AC-LCS/KHKXJ1AD-LCSD LCS Lot-Sample#: F8B250000-136					
	100	(90 - 110)		MCAWW 310.1	02/25/08	8056136	
	99	(90 - 110)	1.0 (0-15)	MCAWW 310.1	02/25/08	8056136	
		Dilution Factor: 1		Analysis Time...: 00:00			
Total Dissolved Solids		WO#:KHR9Q1AC-LCS/KHR9Q1AD-LCSD LCS Lot-Sample#: F8B250000-086					
	100	(86 - 115)		MCAWW 160.1	02/27/08	8056086	
	100	(86 - 115)	0.39 (0-15)	MCAWW 160.1	02/27/08	8056086	
		Dilution Factor: 1		Analysis Time...: 00:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B220240

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	103	Work Order #: KHK6R1AC (90 - 110)	LCS Lot-Sample#: F8B220000-329 MCAWW 300.0A	02/22/08	8053329
		Dilution Factor: 1	Analysis Time...: 01:14		
Chloride	100	Work Order #: KHK6T1AC (90 - 110)	LCS Lot-Sample#: F8B220000-330 MCAWW 300.0A	02/22/08	8053330
		Dilution Factor: 1	Analysis Time...: 01:14		
Fluoride	99	Work Order #: KHK6W1AC (90 - 110)	LCS Lot-Sample#: F8B220000-331 MCAWW 300.0A	02/22/08	8053331
		Dilution Factor: 1	Analysis Time...: 01:14		
Nitrate	104	Work Order #: KHK611AC (90 - 110)	LCS Lot-Sample#: F8B220000-333 MCAWW 300.0A	02/22/08	8053333
		Dilution Factor: 1	Analysis Time...: 01:14		
Nitrite	106	Work Order #: KHK621AC (90 - 110)	LCS Lot-Sample#: F8B220000-334 MCAWW 300.0A	02/22/08	8053334
		Dilution Factor: 1	Analysis Time...: 01:14		
Sulfate	102	Work Order #: KHK601AC (90 - 110)	LCS Lot-Sample#: F8B220000-332 MCAWW 300.0A	02/22/08	8053332
		Dilution Factor: 1	Analysis Time...: 01:14		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F8B220240

Matrix.....: WATER

Date Sampled...: 02/21/08 10:05 Date Received...: 02/22/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F8B220240-001 Prep Batch #...: 8056166						
Calcium	120	(75 - 125)		SW846 6020	02/25-02/26/08	KHH6P1A1
	113	(75 - 125)	1.6 (0-20)	SW846 6020	02/25-02/26/08	KHH6P1A2
		Dilution Factor: 10				
		Analysis Time...: 14:12				
Iron	95 B	(75 - 125)		SW846 6020	02/25-02/26/08	KHH6P1A3
	104	(75 - 125)	8.7 (0-20)	SW846 6020	02/25-02/26/08	KHH6P1A4
		Dilution Factor: 10				
		Analysis Time...: 16:57				
Magnesium	99	(75 - 125)		SW846 6020	02/25-02/26/08	KHH6P1A7
	98	(75 - 125)	0.67 (0-20)	SW846 6020	02/25-02/26/08	KHH6P1A8
		Dilution Factor: 10				
		Analysis Time...: 14:12				
Manganese	106	(75 - 125)		SW846 6020	02/25-02/26/08	KHH6P1A9
	105	(75 - 125)	0.21 (0-20)	SW846 6020	02/25-02/26/08	KHH6P1CA
		Dilution Factor: 10				
		Analysis Time...: 14:12				
Potassium	99	(75 - 125)		SW846 6020	02/25-02/26/08	KHH6P1A5
	97	(75 - 125)	1.9 (0-20)	SW846 6020	02/25-02/26/08	KHH6P1A6
		Dilution Factor: 10				
		Analysis Time...: 14:12				
Silicon	192 N	(75 - 125)		SW846 6020	02/25-02/26/08	KHH6P1CE
	205 N	(75 - 125)	0.62 (0-20)	SW846 6020	02/25-02/26/08	KHH6P1CF
		Dilution Factor: 10				
		Analysis Time...: 14:12				
Sodium	110	(75 - 125)		SW846 6020	02/25-02/26/08	KHH6P1CC
	97	(75 - 125)	1.8 (0-20)	SW846 6020	02/25-02/26/08	KHH6P1CD
		Dilution Factor: 10				
		Analysis Time...: 14:12				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B220240

Matrix.....: WATER

Date Sampled...: 02/21/08 12:15 Date Received...: 02/22/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	101	Work Order #...: KHH7F1A1 (90 - 110)	MCAWW 300.0A Dilution Factor: 1	MS Lot-Sample #: F8B220240-005 02/22/08 Analysis Time...: 01:52	8053329
Chloride	113 N	Work Order #...: KHH7F1A3 (90 - 110)	MCAWW 300.0A Dilution Factor: 50	MS Lot-Sample #: F8B220240-005 02/22/08 Analysis Time...: 05:03	8053330
Fluoride	104	Work Order #...: KHH7F1A5 (90 - 110)	MCAWW 300.0A Dilution Factor: 1	MS Lot-Sample #: F8B220240-005 02/22/08 Analysis Time...: 01:52	8053331
Nitrate	107	Work Order #...: KHH7F1A9 (90 - 110)	MCAWW 300.0A Dilution Factor: 1	MS Lot-Sample #: F8B220240-005 02/22/08 Analysis Time...: 01:52	8053333
Nitrite	124 N	Work Order #...: KHH7F1CC (90 - 110)	MCAWW 300.0A Dilution Factor: 1	MS Lot-Sample #: F8B220240-005 02/22/08 Analysis Time...: 01:52	8053334
Nitrogen, as Ammonia	97	Work Order #...: KHE551C0 (90 - 110)	MCAWW 350.1 Dilution Factor: 1	MS Lot-Sample #: F8B210151-001 02/22/08 Analysis Time...: 00:00	8053421
Nitrogen, as Ammonia	104	Work Order #...: KHH7C1A1 (90 - 110)	MCAWW 350.1 Dilution Factor: 1	MS Lot-Sample #: F8B220240-003 02/22-02/25/08 Analysis Time...: 00:00	8053422
Sulfate	99	Work Order #...: KHH7F1A7 (90 - 110)	MCAWW 300.0A Dilution Factor: 10	MS Lot-Sample #: F8B220240-005 02/22/08 Analysis Time...: 04:50	8053332
Total Alkalinity	85	Work Order #...: KHH7H1A3 (80 - 120)	MCAWW 310.1 Dilution Factor: 1	MS Lot-Sample #: F8B220240-006 02/25/08 Analysis Time...: 00:00	8056136

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B220240

Work Order #...: KHH7F-SMP

Matrix.....: WATER

KHH7F-DUP

Date Sampled...: 02/21/08 14:05 Date Received...: 02/22/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bromide	0.35	0.38	mg/L	9.3	(0-20)	SD Lot-Sample #: F8B220240-005 MCAWW 300.0A	02/22/08	8053329
				Dilution Factor: 1		Analysis Time...: 01:52		
Chloride	110	117	mg/L	6.1	(0-20)	SD Lot-Sample #: F8B220240-005 MCAWW 300.0A	02/22/08	8053330
				Dilution Factor: 50		Analysis Time...: 05:03		
Fluoride	0.44	0.45	mg/L	2.1	(0-20)	SD Lot-Sample #: F8B220240-005 MCAWW 300.0A	02/22/08	8053331
				Dilution Factor: 1		Analysis Time...: 01:52		
Sulfate	26.1	26.3	mg/L	0.73	(0-20)	SD Lot-Sample #: F8B220240-005 MCAWW 300.0A	02/22/08	8053332
				Dilution Factor: 10		Analysis Time...: 04:50		
Nitrate	0.73	0.73	mg/L	0.032	(0-20)	SD Lot-Sample #: F8B220240-005 MCAWW 300.0A	02/22/08	8053333
				Dilution Factor: 1		Analysis Time...: 01:52		
Nitrite	ND	ND	mg/L	0	(0-20)	SD Lot-Sample #: F8B220240-005 MCAWW 300.0A	02/22/08	8053334
				Dilution Factor: 1		Analysis Time...: 01:52		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B220240

Work Order #...: KHE55-SMP
KHE55-DUP

Matrix.....: WATER

Date Sampled...: 02/19/08 10:00 Date Received...: 02/20/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia						SD Lot-Sample #:	F8B210151-001	
	22.7 B,J	22.7 B	ug/L	0.0	(0-20)	MCAWW 350.1	02/22/08	8053421
			Dilution Factor: 1			Analysis Time...: 00:00		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B220240

Work Order #...: KHH7C-SMP

Matrix.....: WATER

KHH7C-DUP

Date Sampled...: 02/21/08 12:15

Date Received...: 02/22/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia						SD Lot-Sample #: F8B220240-003		
ND		7.9 B	ug/L	200	(0-20)	MCAWW 350.1	02/22/08	8053422
			Dilution Factor: 1			Analysis Time...: 00:00		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8B220240

Work Order #...: KHH6P-SMP
KHH6P-DUP

Matrix.....: WATER

Date Sampled...: 02/21/08 10:05 Date Received...: 02/22/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	665	673	mg/L	1.2	(0-0.0)	MCAWW 160.1	02/27/08	8056086
Dilution Factor: 1						Analysis Time...: 00:00		

SD Lot-Sample #: F8B220240-001

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: F8B220240

Work Order #....: KHH7H-SMP
KHH7H-DUP

Matrix.....: WATER

Date Sampled....: 02/21/08 14:35 Date Received...: 02/22/08

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity					SD Lot-Sample #: F8B220240-006		
308	310	mg/L	0.65	(0-15)	MCAWW 310.1	02/25/08	8056133
		Dilution Factor: 1			Analysis Time...: 00:00		
Carbonate Alkalinity					SD Lot-Sample #: F8B220240-006		
ND	ND	mg/L	0	(0-20)	MCAWW 310.1	02/25/08	8056134
		Dilution Factor: 1			Analysis Time...: 00:00		
Total Alkalinity					SD Lot-Sample #: F8B220240-006		
308	310	mg/L	0.65	(0-20)	MCAWW 310.1	02/25/08	8056136
		Dilution Factor: 1			Analysis Time...: 00:00		

F8B220240

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-229,METS

Project Manager: IV
 Project: 6468071777
 PO#: 200803591
 Client: 373886 MACTEC Engineering and Consulting Inc

Quote #: 78576
 SDG:
 Excelon Victoria TEXAS COL
 Report to: Kathryn White

RUSH

Date Received: 2008-02-22
 Analytical Due Date: 2008-02-29
 Report Due Date: 2008-02-29

Report Type: W
 EDD Code: 00

#SMPS in LOT: 6

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
1	OW-2319U			2008-02-21 / 1005	KHH6P	WATER
<u>SAMPLE COMMENTS:</u>						
FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
MG MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
SA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	0X CALCULATION ONLY	9Q ORG FLAGS FOR INORG; STANDARD	PROT: A WRK LOC 06
SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX ZV	RAD SCREEN		RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX AK	MCAW 160.1 W		Solids, Filterable "TDS" (160.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX C8	MCAW 300.0A W		Fluoride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX C9	MCAW 300.0A W		Nitrate as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CB	MCAW 310.1 W		Alkalinity, Carbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CX	MCAW 300.0A W		Chloride (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX CY	MCAW 300.0A W		Sulfate (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX GM	MCAW 300.0A W		Bromide (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX GO	MCAW 300.0A W		Nitrite as N (300.0A, Ion Chromatography)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX SL	SM18 1030F & API		Ion Balance (% Difference)	0X CALCULATION ONLY	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX UX	MCAW 310.1 W		Alkalinity, Bicarbonate (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX VC	MCAW 310.1 W		Alkalinity, Total (310.1)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX VM	MCAW 350.1 W		Nitrogen, Ammonia (350.1, Automated)	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
D FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D MG MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
D CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S FE MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S SI MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S NA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S MN MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S KX MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06
S CA MH	SW846 6020		Inductively Coupled Plasma Mass Spectrometry(6020)	GJ METALS, TOTAL - 2% HCL	01 STANDARD TEST SET	PROT: A WRK LOC 06

F8B220240

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-229,METS

Project Manager: IV Quote #: 78576 SDG:
 Project: 6468071777 Excelon Victoria TEXAS COL
 PO#: 200803591 Report to: Kathryn White
 Client: 373886 MACTEC Engineering and Consulting Inc

Date Received: 2008-02-22
 Analytical Due Date: 2008-02-29
 Report Due Date: 2008-02-29

RUSH

Report Type: W
 EDD Code: 00

#SMPS In LOT: 6

S	MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X	XX	AK	MCAW	160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
2	OW-2319L			2008-02-21 / 1040	KHH68	WATER

SAMPLE COMMENTS:

KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC	06
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	ZV		RAD SCREEN		RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	AK	MCAW	160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	C8	MCAW	300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	C9	MCAW	300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CB	MCAW	310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CX	MCAW	300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	CY	MCAW	300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	GM	MCAW	300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	GO	MCAW	300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	SL	SM18	1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	UX	MCAW	310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	VC	MCAW	310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	VM	MCAW	350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
3	OW-2304U			2008-02-21 / 1215	KHH7C	WATER

SAMPLE COMMENTS:

FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC	06
SI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06

F8B220240

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-229,METS

Project Manager: IV Quote #: 78576 SDG:
 Project: 6468071777 Excelon Victoria TEXAS COL
 PO#: 200803591 Report to: Kathryn White
 Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Date Received: 2008-02-22
 Analytical Due Date: 2008-02-29
 Report Due Date: 2008-02-29

Report Type: W
 EDD Code: 00

#SMPS in LOT: 6

XX ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID		Site ID	Client Matrix	DATE/TIME SAMPLED		WORKORDER		I
4	OW-2304L				2008-02-21 / 1220		KHH7E	WATER	
SAMPLE COMMENTS:									
FE	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC 06
KX	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC 06
MG	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC 06
MN	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC 06
NA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC 06
SA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC 06
SI	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC 06
CA	MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC 06
XX	UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC 06

F8B220240

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-229,METS

Project Manager: IV Quote #: 78576 SDG:
 Project: 6468071777 Excelon Victoria TEXAS COL
 PO#: 200803591 Report to: Kathryn White
 Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

Date Received: 2008-02-22
 Analytical Due Date: 2008-02-29
 Report Due Date: 2008-02-29

Report Type: W
 EDD Code: 00

#SMPS In LOT: 6

XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	J
5	OW-2302U			2008-02-21 / 1405	KHH7F	WATER

SAMPLE COMMENTS:

SI MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SA MH	SWB46 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK LOC	06
XX ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
X XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

F8B220240

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-229,METS
 Date Received: 2008-02-22
 Analytical Due Date: 2008-02-29
 Report Due Date: 2008-02-29
 Report Type: W
 EDD Code: 00

Project Manager: IV Quote #: 78576 SDG:
 Project: 6468071777 Excelon Victoria TEXAS COL
 PO#: 200803591 Report to: Kathryn White
 Client: 373886 MACTEC Engineering and Consulting Inc

RUSH

#SMPS in LOT: 6

X XX GO MCAW 300.0A Nitrite as N (300.0A, Ion 88 NO SAMPLE PREPARATION 01 STANDARD TEST SET PROT:A WRK 06
 W Chromatography) PERFORMED / DIRECT

SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER I
 6 OW-2302L 2008-02-21 / 1435 KHH7H WATER

SAMPLE COMMENTS:

MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
FE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
SA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT:A	WRK LOC	06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX ZV	RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX AK	MCAW 160.1 W	Solids, Filterable "TDS" (160.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX C8	MCAW 300.0A W	Fluoride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX C9	MCAW 300.0A W	Nitrate as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX CX	MCAW 300.0A W	Chloride (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX CY	MCAW 300.0A W	Sulfate (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX GM	MCAW 300.0A W	Bromide (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX GO	MCAW 300.0A W	Nitrite as N (300.0A, Ion Chromatography)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX SL	SM18 1030F & API	Ion Balance (% Difference)	0X	CALCULATION ONLY	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
XX VM	MCAW 350.1 W	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
S XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
X XX CB	MCAW 310.1 W	Alkalinity, Carbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
X XX UX	MCAW 310.1 W	Alkalinity, Bicarbonate (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06
X XX VC	MCAW 310.1 W	Alkalinity, Total (310.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT:A	WRK LOC	06

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

- 2099^{Lot #}(s): F8B220240

Client: MacTel COC/REA No: 061793 Date: 2/22/08
Quote No: 78576 Initiated By: AD Time: 1530

Shipping Information

Shipper Name: PC Multiple Packages Y (N)
Shipping # (s):* 7998 0629 5754 Sample Temperature (s):** 2
1. 7998 0629 5754 6. 1. 2 6.
2. 7. 2. 7.
3. 8. 3. 8.
4. 9. 4. 9.
5. 10. 5. 10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <u>(Y)</u> <u>N</u>	Are there custody seals present on the cooler?	8. <u>Y</u> <u>(N)</u>	Are there custody seals present on bottles?
2. <u>Y</u> <u>(N)</u> <u>N/A</u>	Do custody seals on cooler appear to be tampered with?	9. <u>Y</u> <u>N</u> <u>(N/A)</u>	Do custody seals on bottles appear to be tampered with?
3. <u>(Y)</u> <u>N</u>	Were contents of cooler frisked after opening, but before unpacking?	10. <u>(Y)</u> <u>N</u> <u>N/A</u>	Was sample received with proper pH? (If not, make note below)
4. <u>(Y)</u> <u>N</u>	Sample received with Chain of Custody?	11. <u>Y</u> <u>N</u>	If N/A- Was pH taken by original TestAmerica lab?
5. <u>(Y)</u> <u>N</u> <u>N/A</u>	Does the Chain of Custody match sample ID's on the container(s)?	12. <u>(Y)</u> <u>N</u>	Sample received in proper containers?
6. <u>Y</u> <u>(N)</u>	Was sample received broken?	13. <u>Y</u> <u>N</u> <u>(N/A)</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7. <u>(Y)</u> <u>N</u>	Is sample volume sufficient for analysis?	14. <u>Y</u> <u>N</u>	Was Internal COC/Workshare received?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

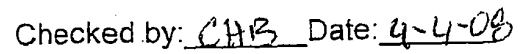
Corrective Action:

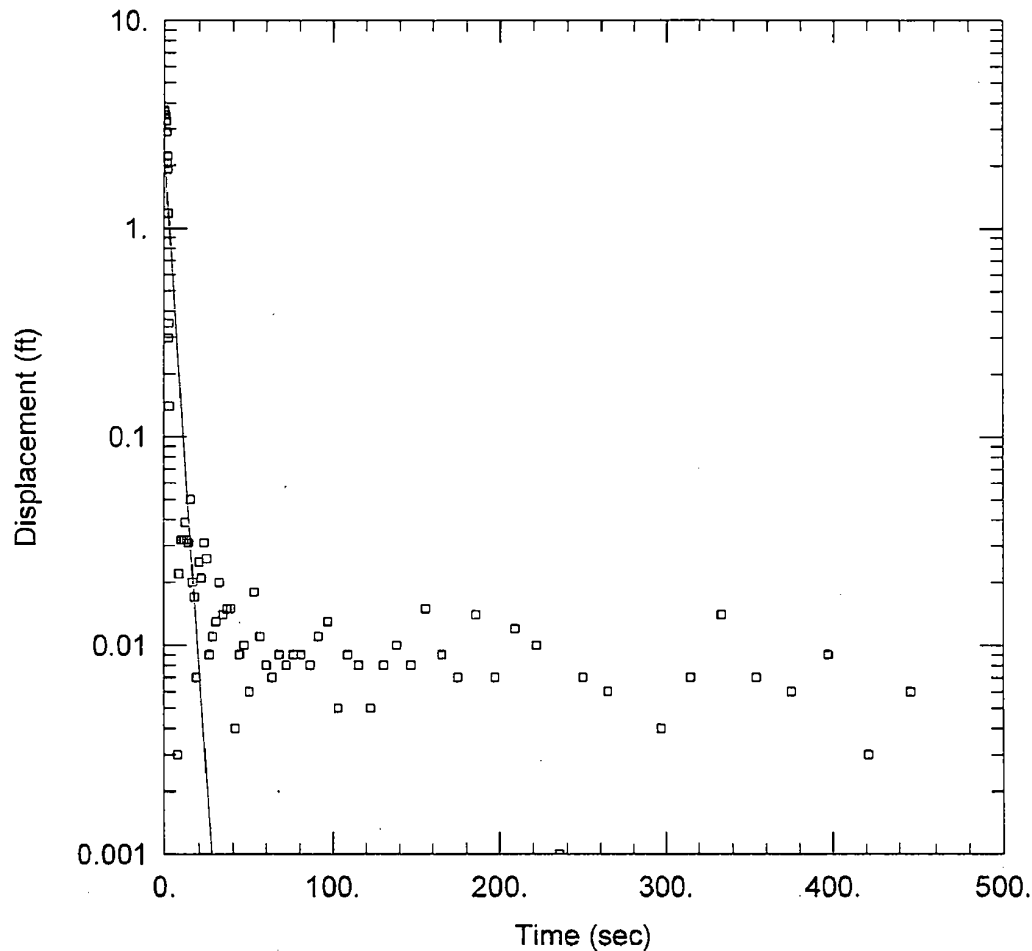
☐ Client Contact Name: Informed by:
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: If released, notify:

Project Management Review: Date: 2-27-08

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

Slug Test Data Forms

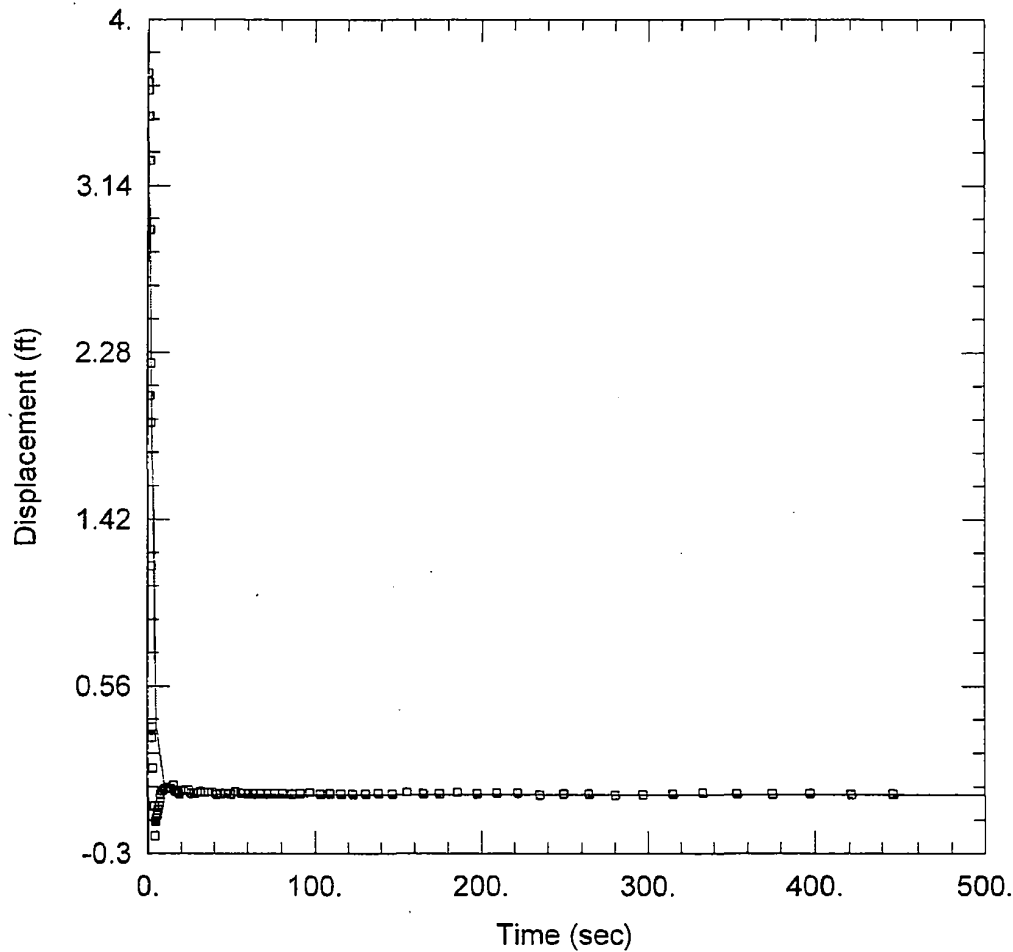
[illegible]

OW-01 L FALLING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-01 L
Test Date: 1/19/07

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-01 L)Initial Displacement: 3.723 ftStatic Water Column Height: 70.04 ftTotal Well Penetration Depth: 110. ftScreen Length: 10. ftCasing Radius: 0.083 ftWell Radius: 0.083 ftSOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-RiceK = 43.26 ft/day Volume 1 Rev. 0 7/18/2008Page 279 of 652 2.367 ft

DCN# EXE808



OW-01 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-01 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-01 L)

Initial Displacement: 3.723 ft
 Total Well Penetration Depth: 110. ft
 Casing Radius: 0.083 ft

Static Water Column Height: 70.04 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

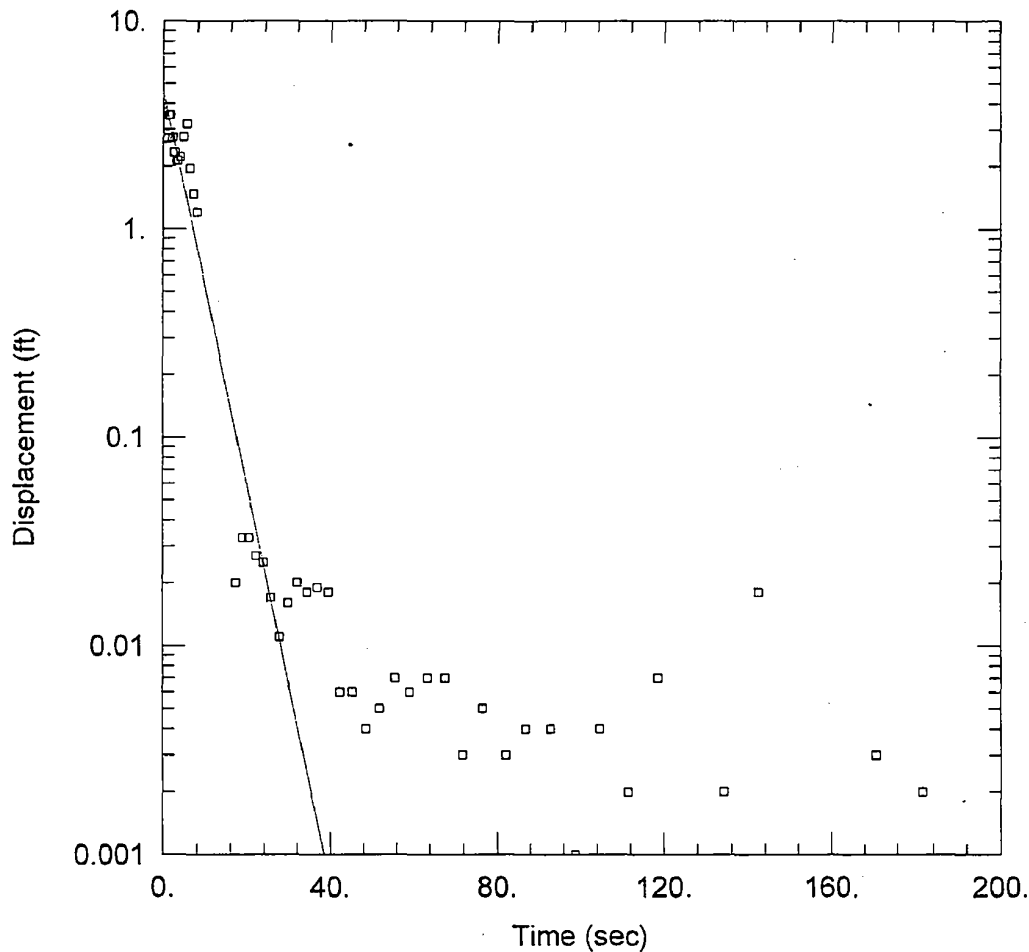
SOLUTION

Aquifer Model: Confined

Solution Method: Butler

Prepared by: CHB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-01 L FALLING HEAD TEST (B)

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-01 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 0.001

WELL DATA (OW-01 L)

Initial Displacement: 3.638 ft Static Water Column Height: 70.04 ft
 Total Well Penetration Depth: 110. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bower-Rice

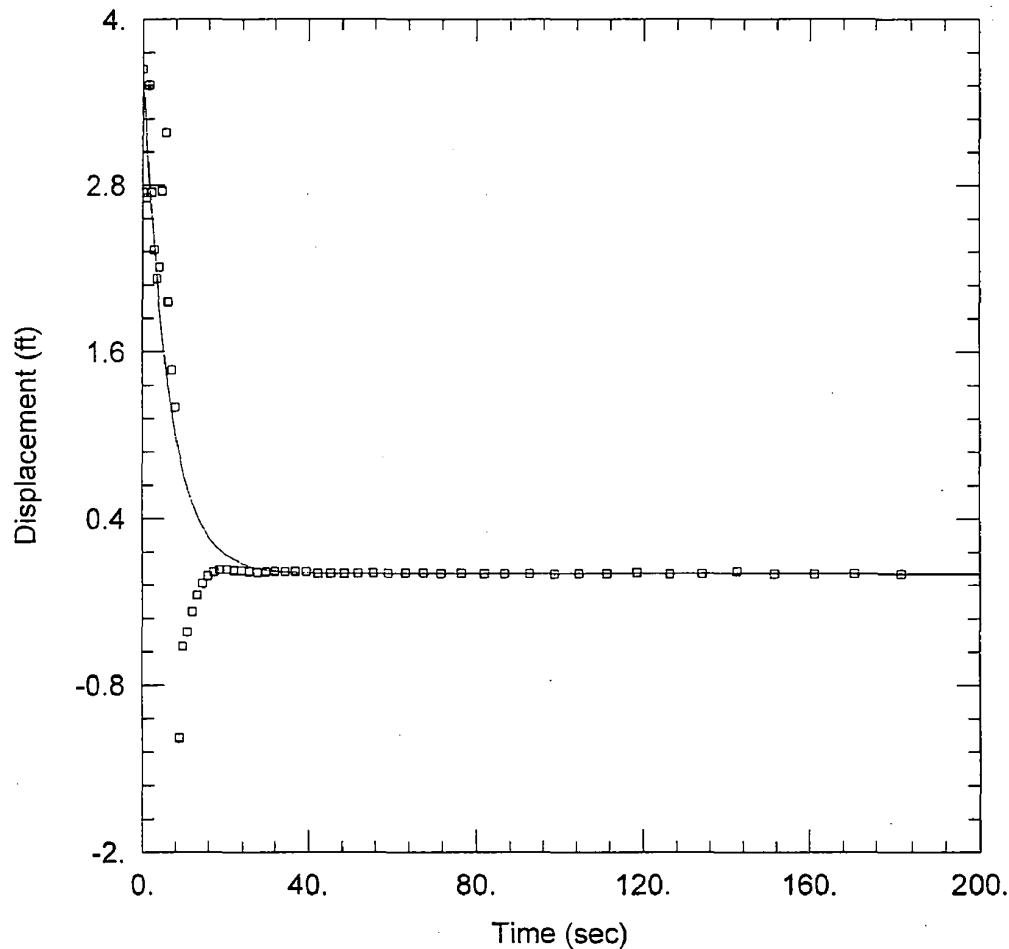
K = 0.0355 ft/day Date: 7/18/2008

Page 281 of 357 4.573 ft

DCN# EXE808

Prepared by: CHB Date: 4-4-08

Checked by: BLL Date: 4/4/08



OW-01 L FALLING HEAD TEST (B)

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-01 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 0.001

WELL DATA (OW-01 L)

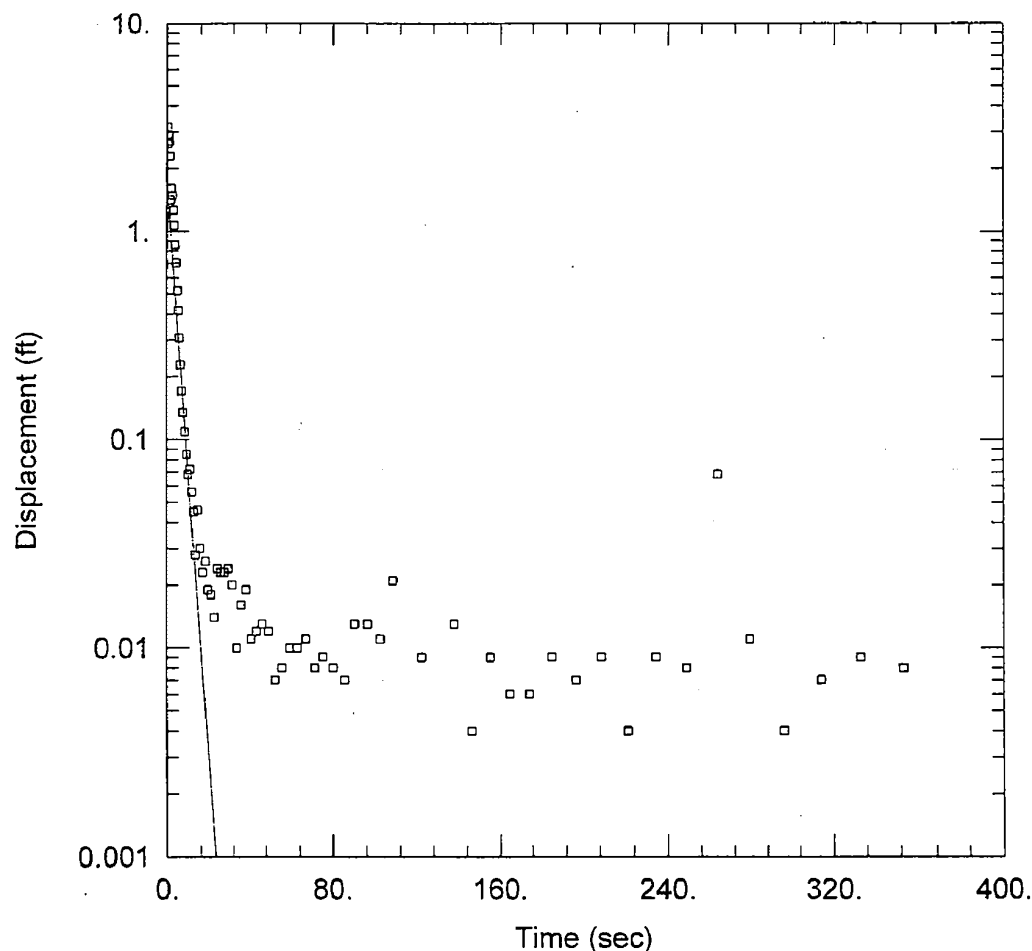
Initial Displacement: 3.638 ft Static Water Column Height: 70.04 ft
 Total Well Penetration Depth: 110. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

Prepared by: CAB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-01 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-01 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-01 L)

Initial Displacement: 3.165 ft Static Water Column Height: 70.04 ft
 Total Well Penetration Depth: 110. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

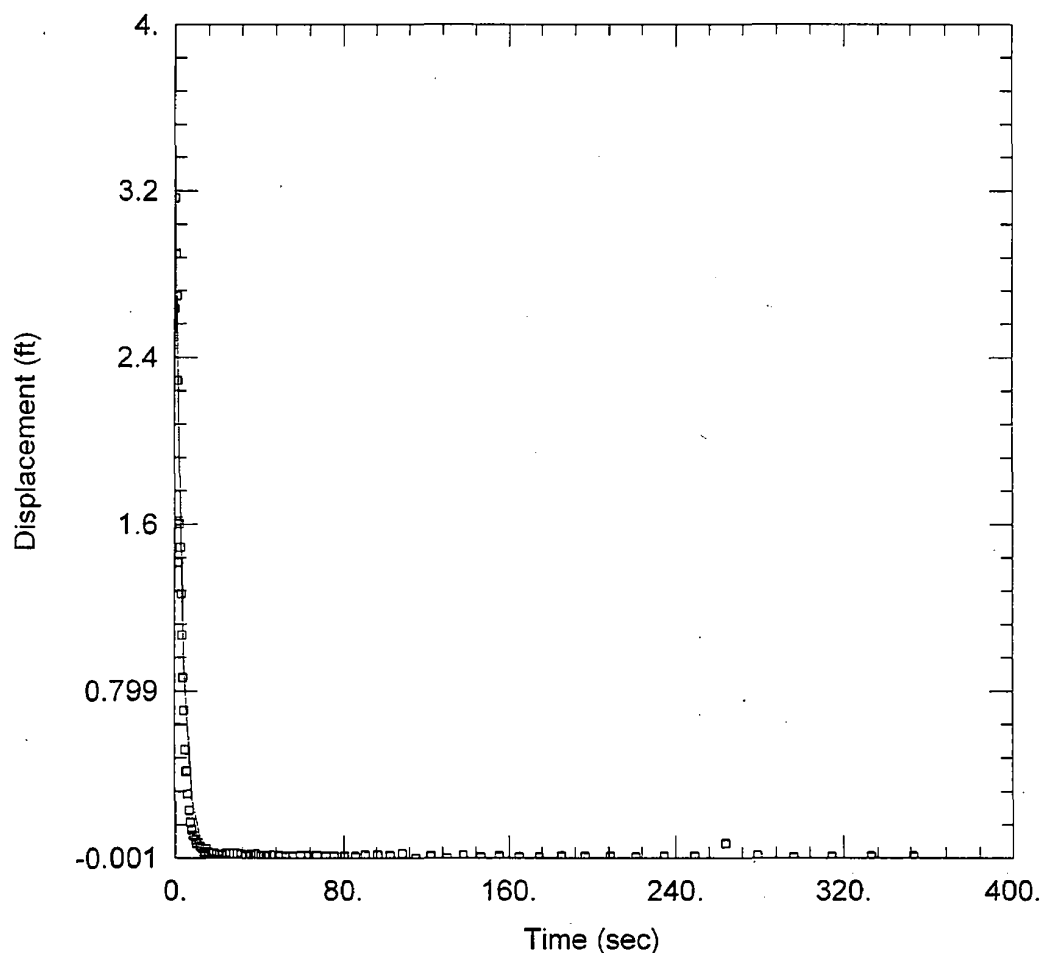
SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

K value: 48.94 ft/day

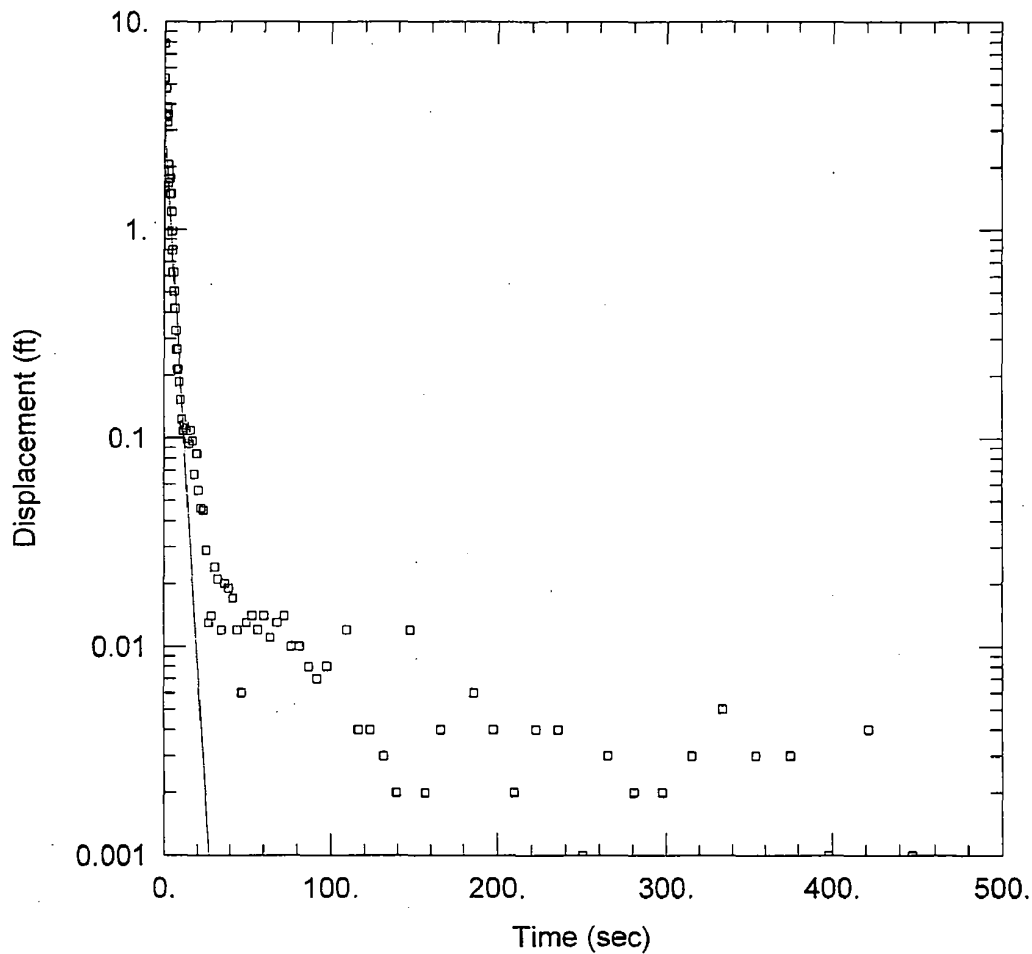
Page 283 of 657 1.678 ft

DCN# EXE808

OW-01 L RISING HEAD TESTPROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-01 L
 Test Date: 1/19/07

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-01 L)Initial Displacement: 3.165 ftStatic Water Column Height: 70.04 ftTotal Well Penetration Depth: 110. ftScreen Length: 10. ftCasing Radius: 0.083 ftWell Radius: 0.083 ftSOLUTIONAquifer Model: ConfinedSolution Method: Butler

OW-01 L RISING HEAD TEST (B)PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-01 L
 Test Date: 1/19/07

AQUIFER DATA

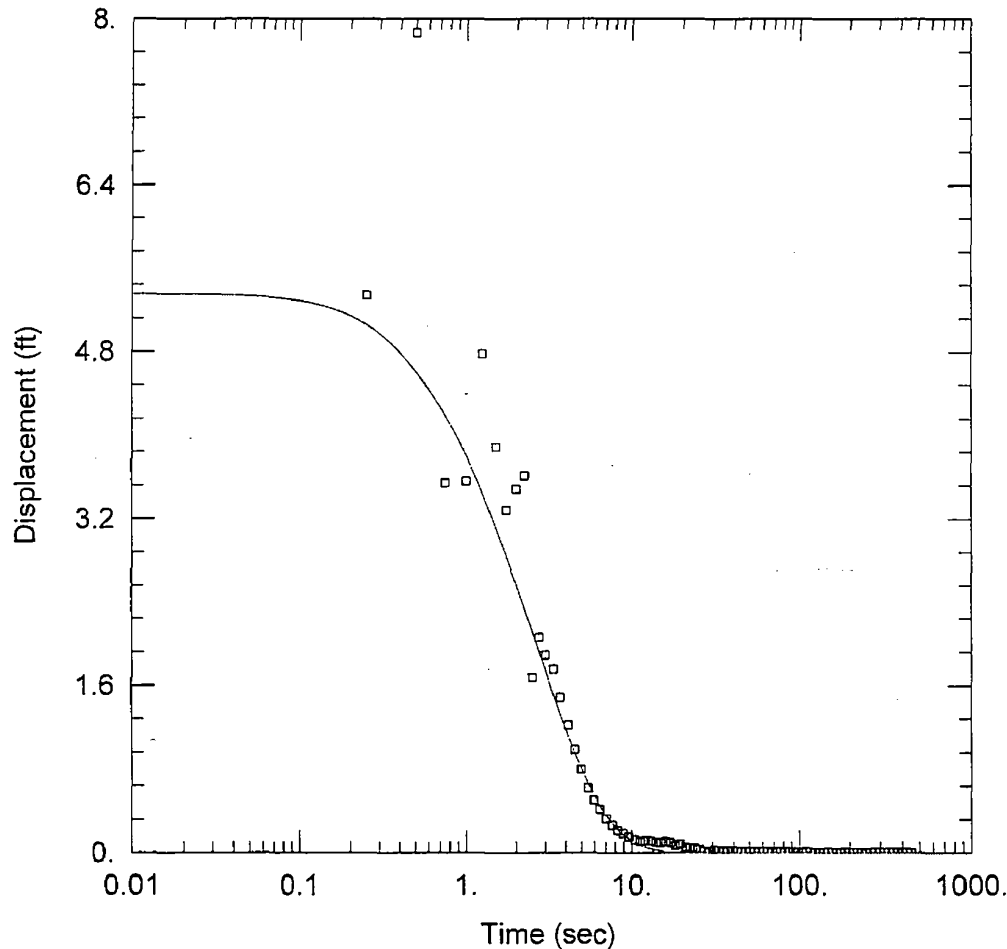
Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-01 L)

Initial Displacement: 5.354 ft Static Water Column Height: 70.04 ft
 Total Well Penetration Depth: 110. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

OW-01 L RISING HEAD TEST (B)PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-01 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-01 L)

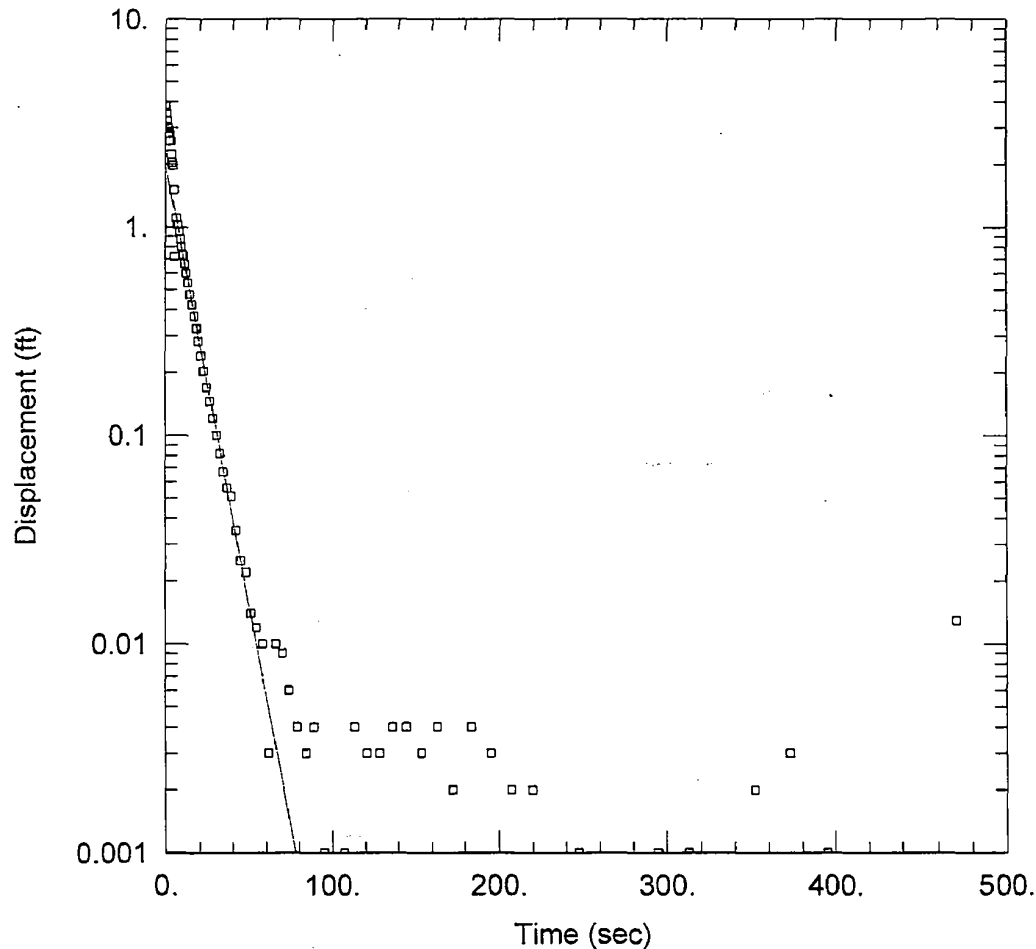
Initial Displacement: 5.354 ft Static Water Column Height: 70.04 ft
 Total Well Penetration Depth: 110. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

SLUG TEST REPORT

Project Name: Exelon COL		Project Number: 6469-07-1777		Page 1 of 1	OW-01U
Client: Bechtel		Contractor: MACTEC			
Location: Victoria		MACTEC Rep: Jeff Moore		Date: 1/19/08	
UNITS					
Length	Feet				
Time	Minutes				
Well Data					
Static Water Level	42.15 feet				
Total Well Depth	63 feet				
Static Water Column Height (H)	20.95 feet				
Observed Initial Displacement (H ₀)	Background	Falling Head	JAM 1-14-08 Rising Head		
	NA	~3.7 Feet	~2.7 feet ~3		
Saturated Thickness (b)	feet				
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1				
Depth to Top of Well Screen (d)	50 feet				
Length of Well Screen (L)	10 feet				
Radius of Well Casing (rc)	0.083 feet				
Radius of Screen (rw)	0.083 feet				
Radius of Probe (req)					
Radius of Boring (rsk) Skin Effect	0.083 feet				
Probe Serial Number	103078				
Slug Data					
Length	5.5 feet				
Weight					
Diameter	1.625 inches				
Slug Test File	Background	Falling	Rising		
File Name	OW-01U Background	OW-01U Falling Head	OW-01U Rising Head		
Start Time	12:35:34 PM	12:52:01	1:07:23 1:01:22 JAM 1-14-08		
End Time	12:58:34	1:05:52 12:59:58	1:10:49		
Notes 2 Feet of Sediment in Bottom, set Transducer at 60 (orig water)	JAM 1-14-08				

OW-01 U FALLING HEADPROJECT INFORMATION

Company: Exelon
 Client: Bechtel
 Project: 6468-07-1777
 Location: Victoria, Tx
 Test Well: OW-01 U
 Test Date: 2/28/08

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (Kz/Kr): 1.WELL DATA (OW-01 U)

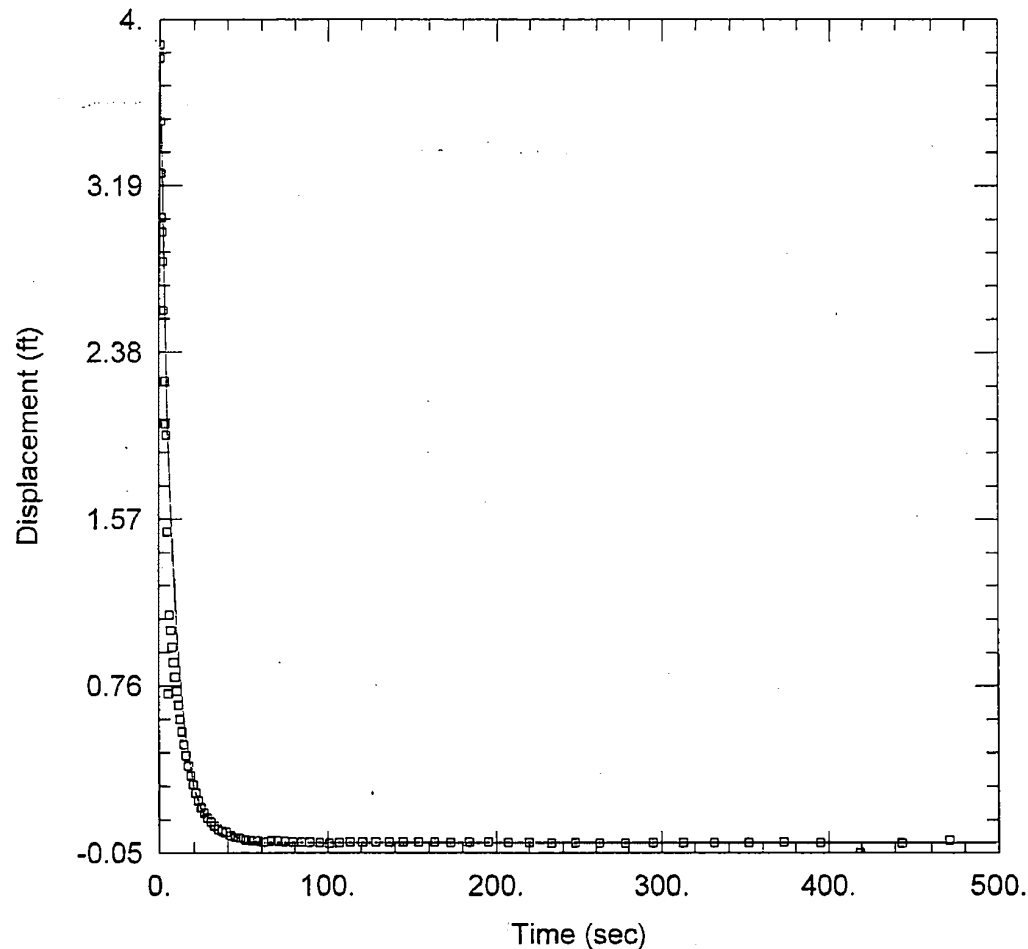
Initial Displacement: 3.877 ft
 Total Well Penetration Depth: 60. ft
 Casing Radius: 0.083 ft

Static Water Column Height: 20.85 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-Rice

Prepared by: CHB Date: 4-4-08

Checked by: BWZ Date: 4/4/08



OW-01 U FALLING HEAD

PROJECT INFORMATION

Company: Exelon
Client: Bechtel
Project: 6468-07-1777
Location: Victoria, Tx
Test Well: OW-01 U
Test Date: 2/28/08

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-01 U)

Initial Displacement: 3.877 ft Static Water Column Height: 20.85 ft
Total Well Penetration Depth: 60. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

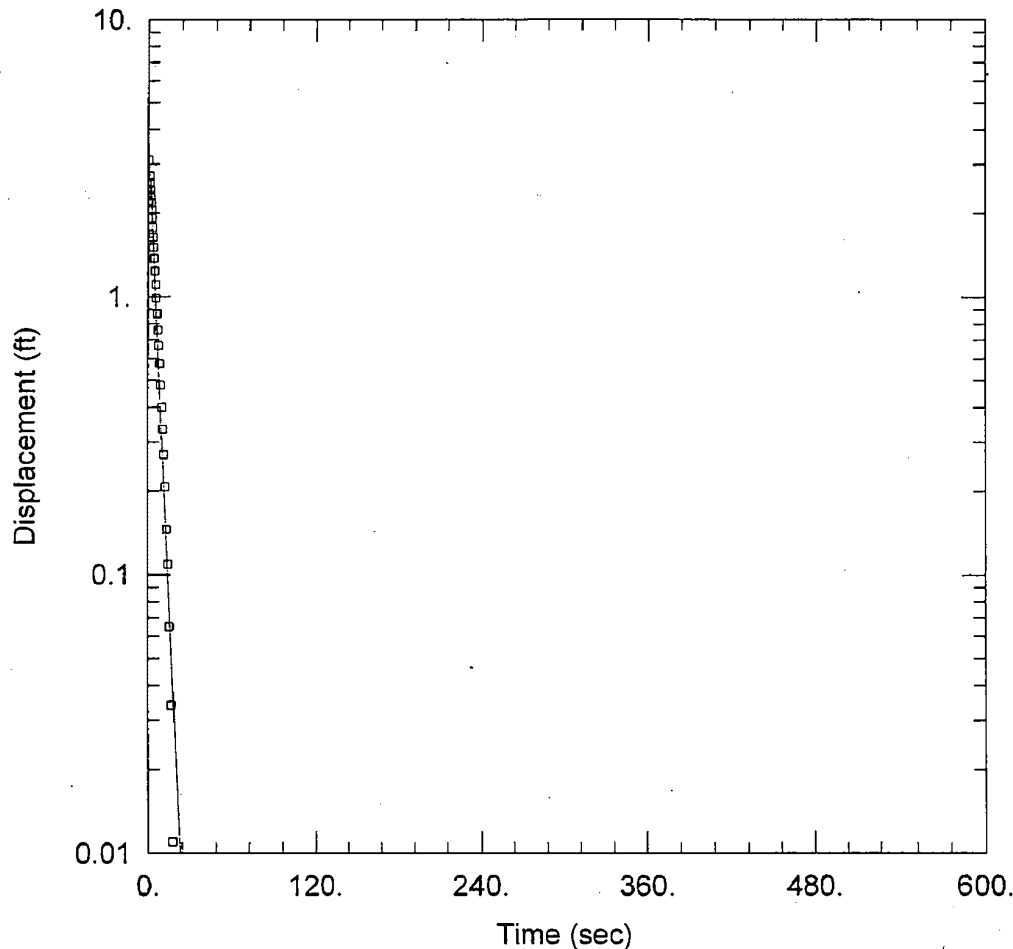
SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 20.7 Day

Page 289 of 657
Le = 59.11 ft

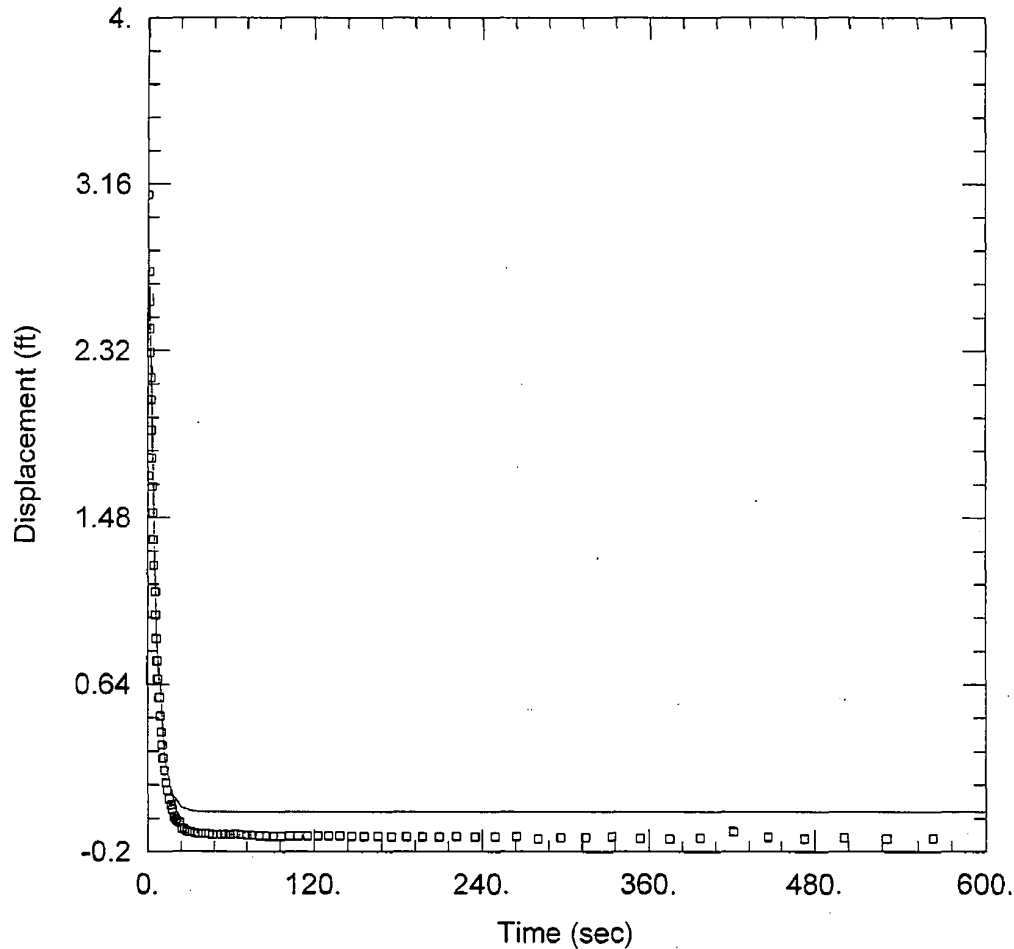
DCN# EXE808

OW-01 U RISING HEADPROJECT INFORMATION

Company: Exelon
 Client: Bechtel
 Project: 6468-07-1777
 Location: Victoria, Tx
 Test Well: OW-01 U
 Test Date: 2/28/08

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-01 U)Initial Displacement: 3.105 ftStatic Water Column Height: 20.85 ftTotal Well Penetration Depth: 60. ftScreen Length: 10. ftCasing Radius: 0.083 ftWell Radius: 0.083 ftSOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-RiceK = 97.1 ft/day Volume 1 Rev 07/18/2008Page 290 of 652 3.696 ft

DCN# EXE808

OW-01 U RISING HEADPROJECT INFORMATION

Company: Exelon
 Client: Bechtel
 Project: 6468-07-1777
 Location: Victoria, Tx
 Test Well: OW-01 U
 Test Date: 2/28/08

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (Kz/Kr): 1.WELL DATA (OW-01 U)

Initial Displacement: 3.105 ft
 Total Well Penetration Depth: 60. ft
 Casing Radius: 0.083 ft

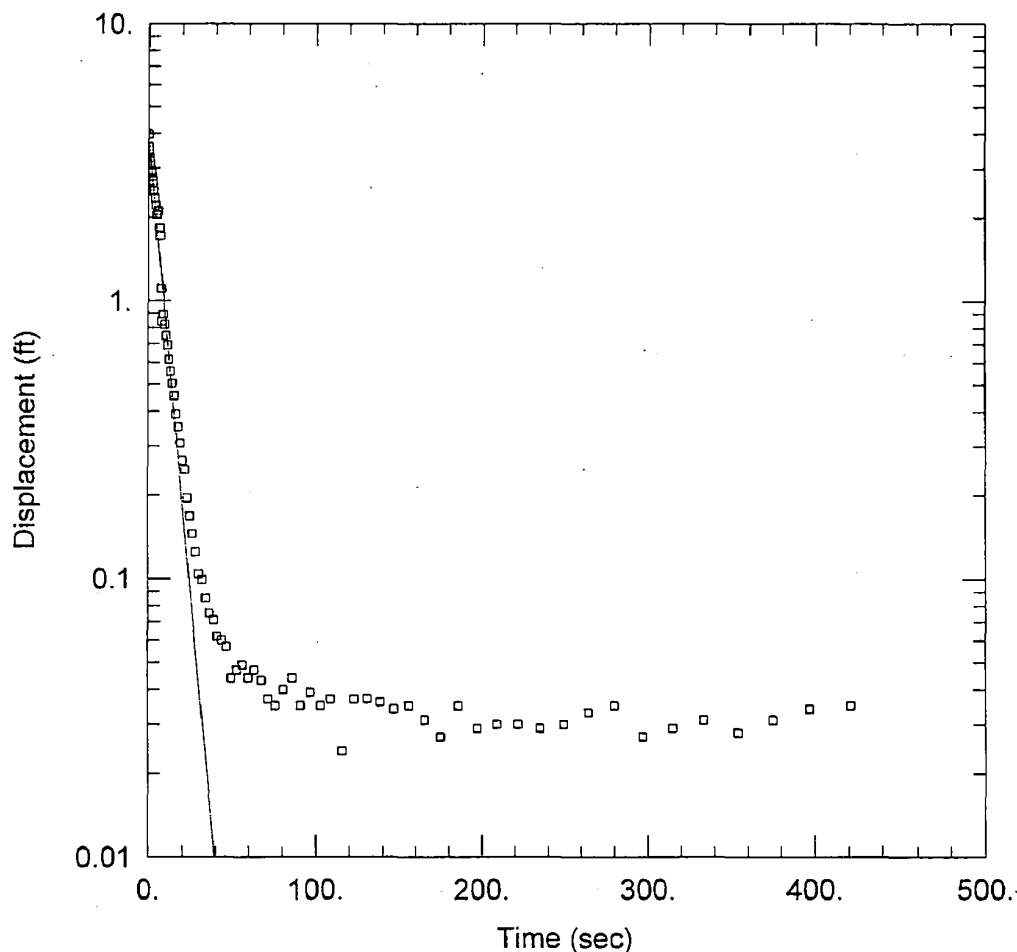
Static Water Column Height: 20.85 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Butler

[illegible]

Prepared by: CWB Date: 4-4-08

Checked by: BLW Date: 4/4/08



OW-02 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-02 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-02 L)

Initial Displacement: 3.982 ft Static Water Column Height: 57.78 ft
 Total Well Penetration Depth: 108. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

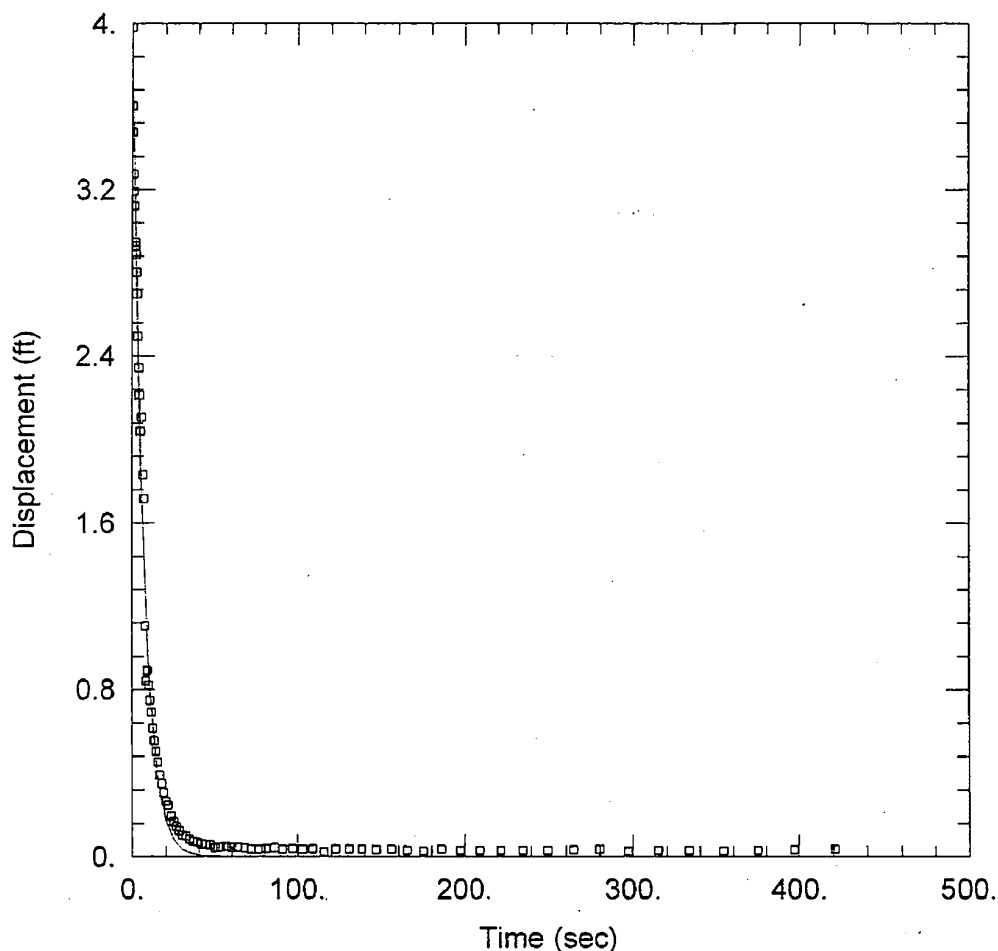
K = 28.26 ft/day Date: 7/18/2008

Page 293 of 357 3.937 ft

DCN# EXE808

Prepared by: DLB Date: 4-4-08

Checked by: BWD Date: 4/4/08



OW-02 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-02 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-02 L)

Initial Displacement: 3.982 ft Static Water Column Height: 57.78 ft
 Total Well Penetration Depth: 108. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

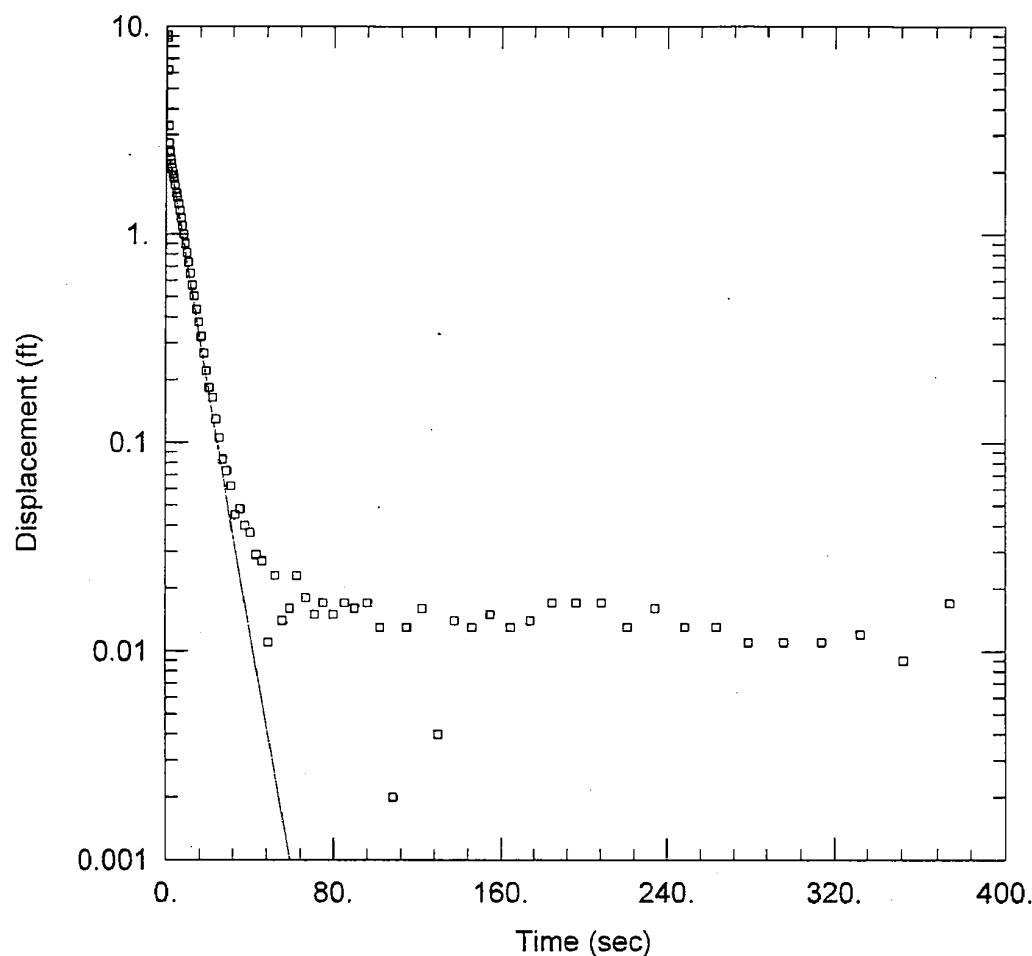
SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 24.84 ft/day

Le = 0.1 ft

DCN# EXE808



OW-02 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-02 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-02 L)

Initial Displacement: 9.074 ft

Static Water Column Height: 57.78 ft

Total Well Penetration Depth: 108. ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

SOLUTION

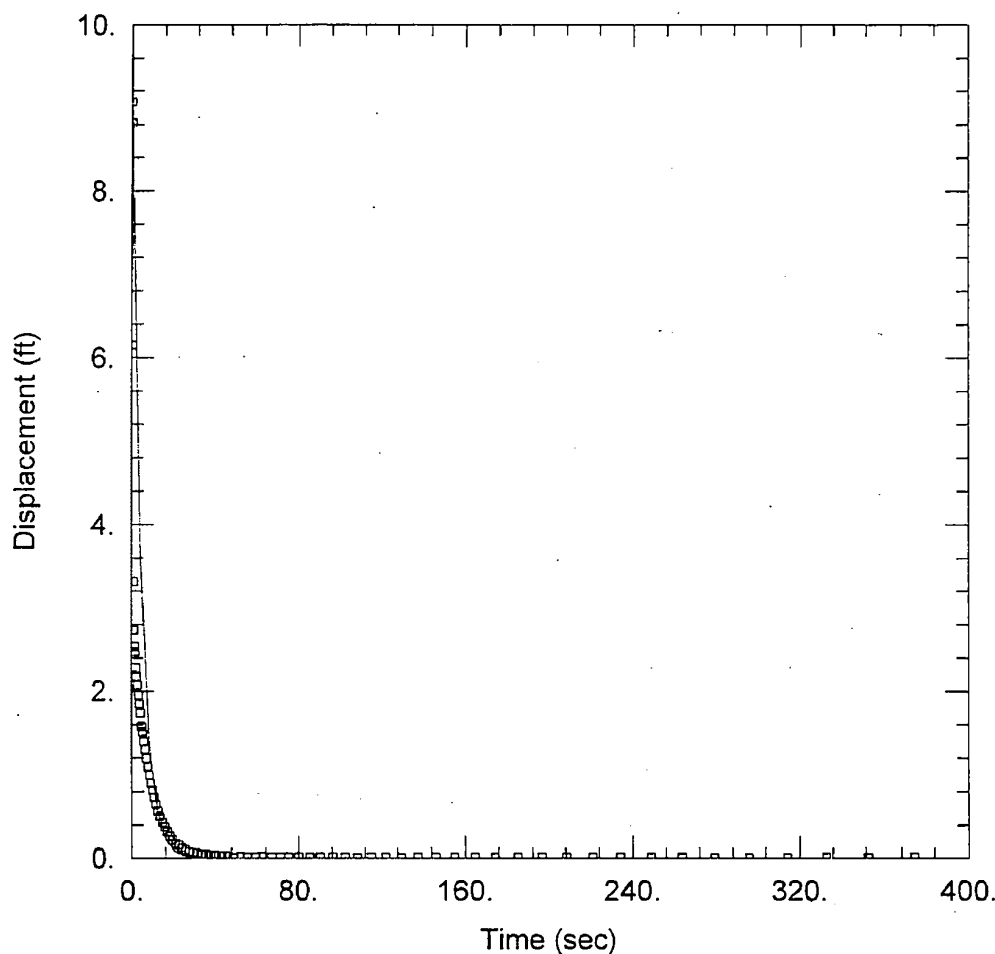
Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 20.46 ft/day 7/18/2008

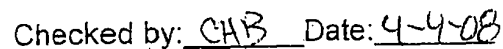
Page 295 of 652 2.684 ft

DCN# EXE808

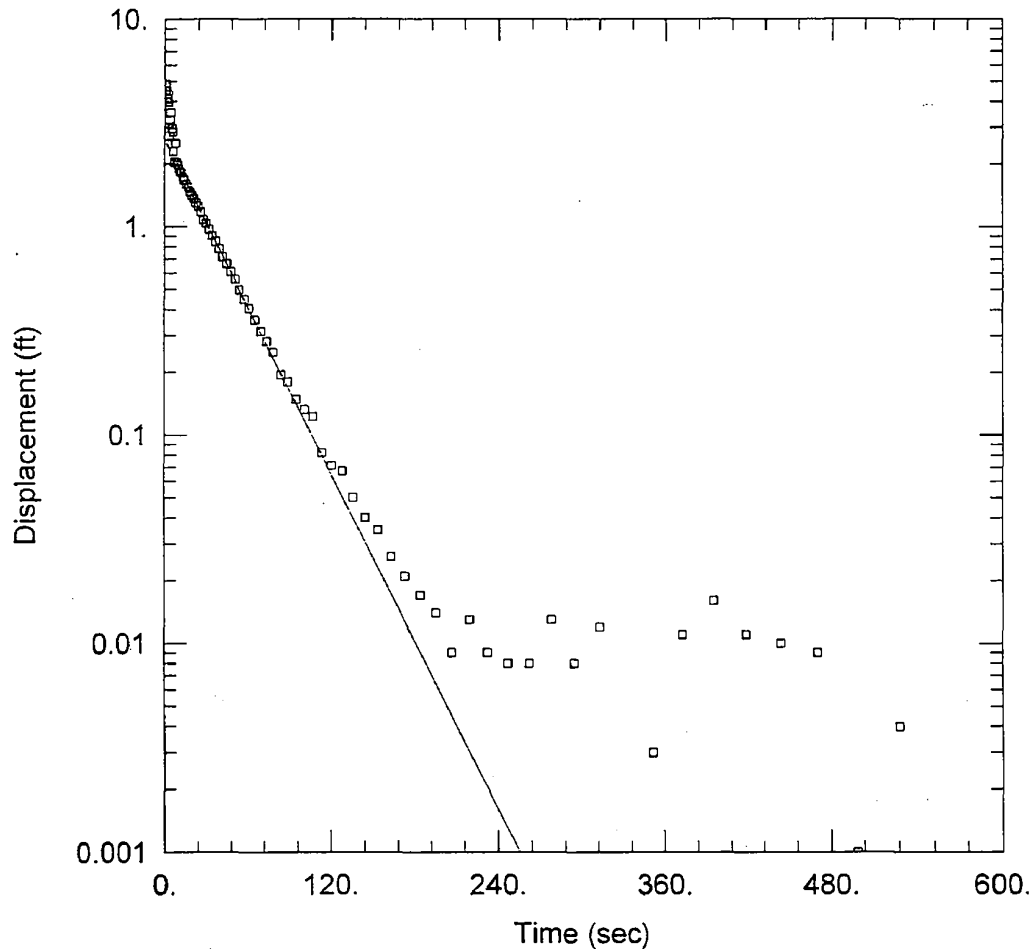
OW-02 L RISING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-02 L
Test Date: 1/19/07

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-02 L)Initial Displacement: 9.074 ftStatic Water Column Height: 57.78 ftTotal Well Penetration Depth: 108. ftScreen Length: 10. ftCasing Radius: 0.083 ftWell Radius: 0.083 ftSOLUTIONAquifer Model: ConfinedSolution Method: Butler



Project Name: Exelon COL		Project Number: 6489-07-1777		Page 1 of 1		OW-C2U	
Client: Bechtel		Contractor: MACTEC					
Location: Victoria		MACTEC Rep:		Date: 1/19/08			
UNITS							
Length		Feet					
Time		Minutes					
Well Data							
Static Water Level		51.4' feet					
Total Well Depth		66' feet					
Static Water Column Height (H)		14.6' feet					
	Background	Falling Head	Rising Head				
Observed Initial Displacement (H_0)	NA	~ 5'	~ 7'				
Saturated Thickness (b)	feet						
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1						
Depth to Top of Well Screen (d)	53 feet						
Length of Well Screen (L)	10 feet						
Radius of Well Casing (r_c)	0.083 feet						
Radius of Screen (r_w)	0.083 feet						
Radius of Probe (r_{eq})							
Radius of Boring (r_{sk}) Skin Effect	0.083 feet						
Probe Serial Number	103078						
Slug Data	Slug #1						
Length	5.5' Feet						
Weight							
Diameter	1.625 inches						
Slug Test File	Background	Falling	Rising				
File Name	OW-D2U Background	OW-D2U Falling Head	OW-D2U Rising Head				
Start Time	2:44:24	3:00:29	3:10:57				
End Time	2:59:24	3:09:23	3:18:27				
Notes	Transducer set approx. 2' from Bottom,						



OW-02 U FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-02 U
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-2U)

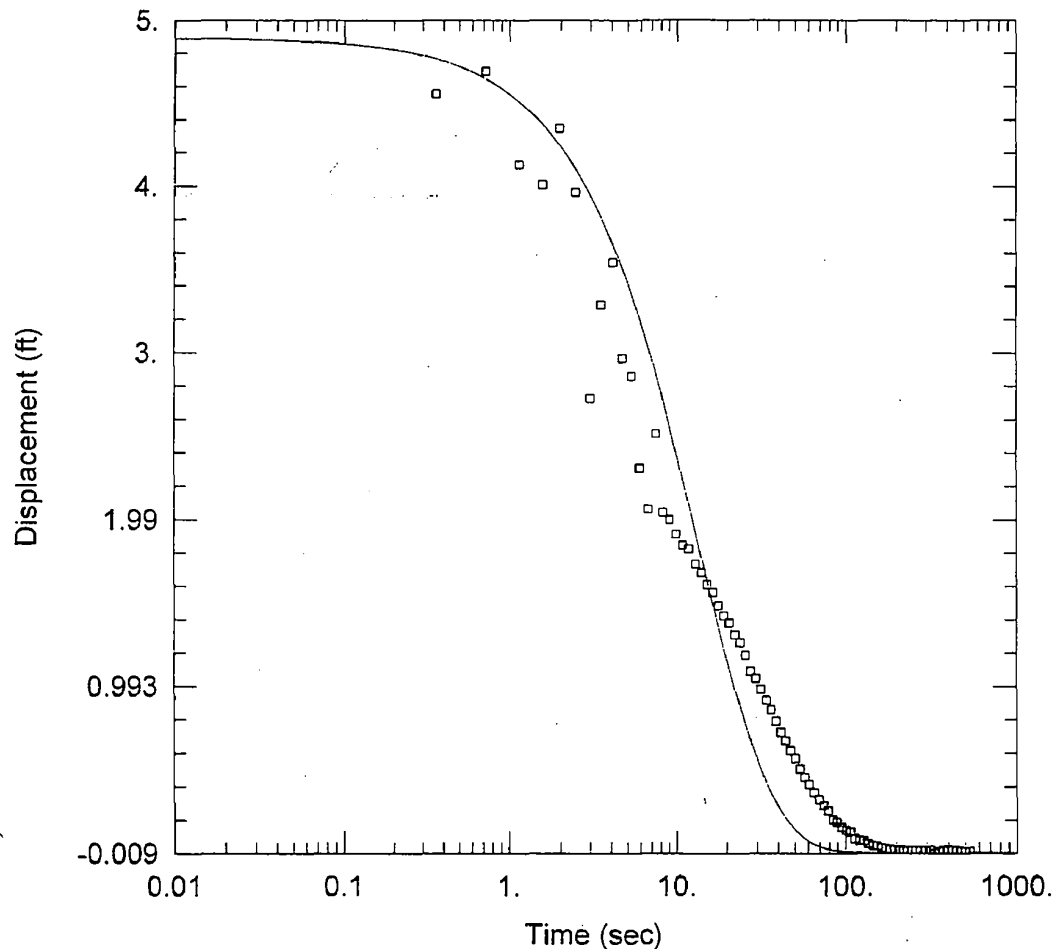
Initial Displacement: 4.892 ft Static Water Column Height: 14.6 ft
 Total Well Penetration Depth: 63. ft Screen Length: 10. ft
 Casing Radius: 0.0833 ft Well Radius: 0.0833 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

Prepared by: CAB Date: 4-4-08

Checked by: BWT Date: 4/4/08



OW-02 U FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-02 U
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-2U)

Initial Displacement: 4.892 ft Static Water Column Height: 14.6 ft
 Total Well Penetration Depth: 63. ft Screen Length: 10. ft
 Casing Radius: 0.0833 ft Well Radius: 0.0833 ft

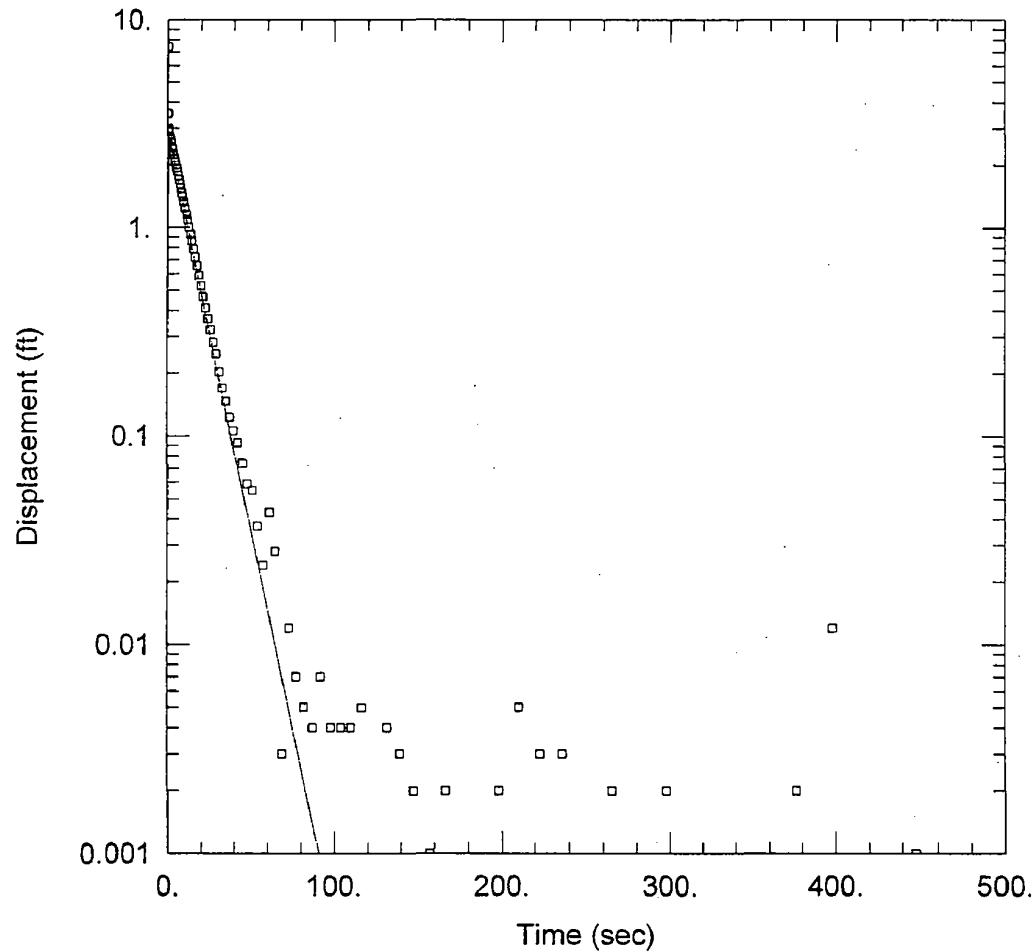
SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 11.45 ft/day
 Volume: 4.0 Rev: 1 7/18/2008

Page 299 of 357 0.1 ft

DCN# EXE808



OW-02 U RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-02 U
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (New Well)

Initial Displacement: 7.419 ft
 Total Well Penetration Depth: 63. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 14.6 ft
 Screen Length: 10. ft
 Well Radius: 0.0833 ft

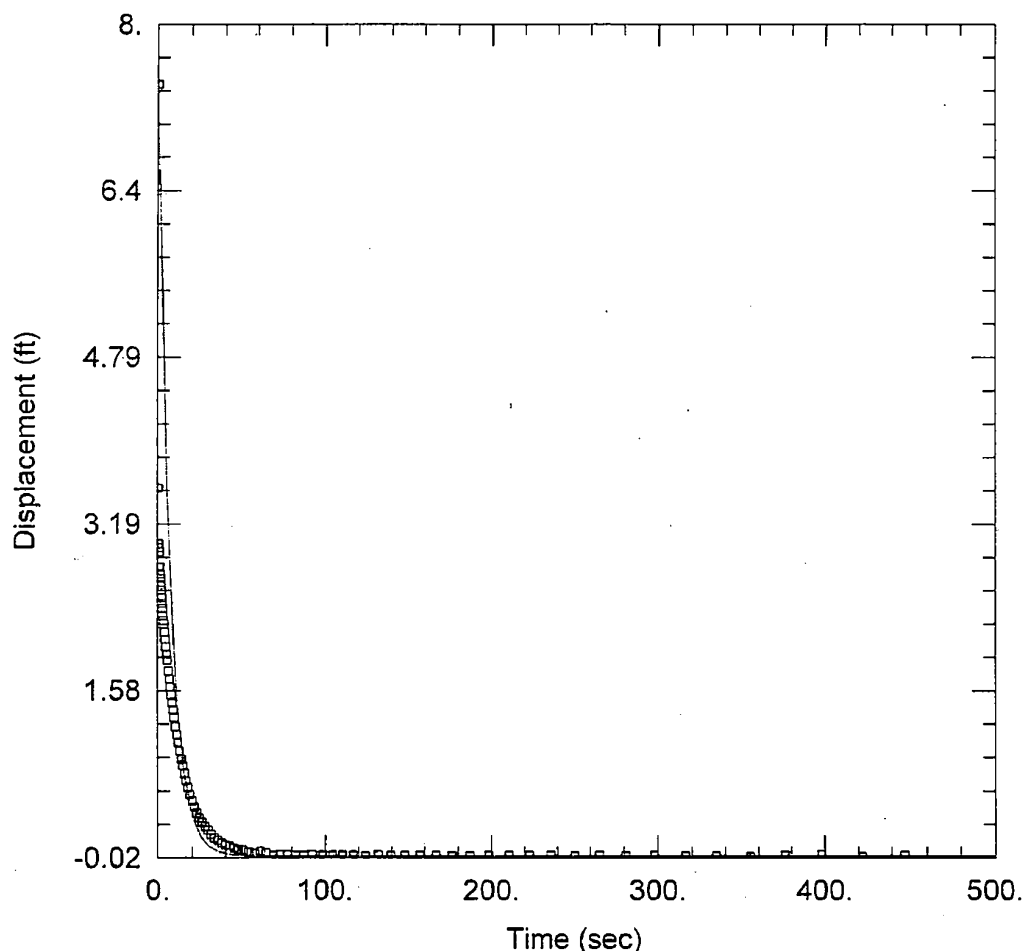
SOLUTION

Aquifer Model: Confined

Solution Method: Bower-Rice

Prepared by: CHB Date: 4-4-08

Checked by: BWT Date: 4/4/08



OW-02 U RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-02 U
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (New Well)

Initial Displacement: 7.419 ft Static Water Column Height: 14.6 ft
 Total Well Penetration Depth: 63. ft Screen Length: 10. ft
 Casing Radius: 0.0833 ft Well Radius: 0.0833 ft

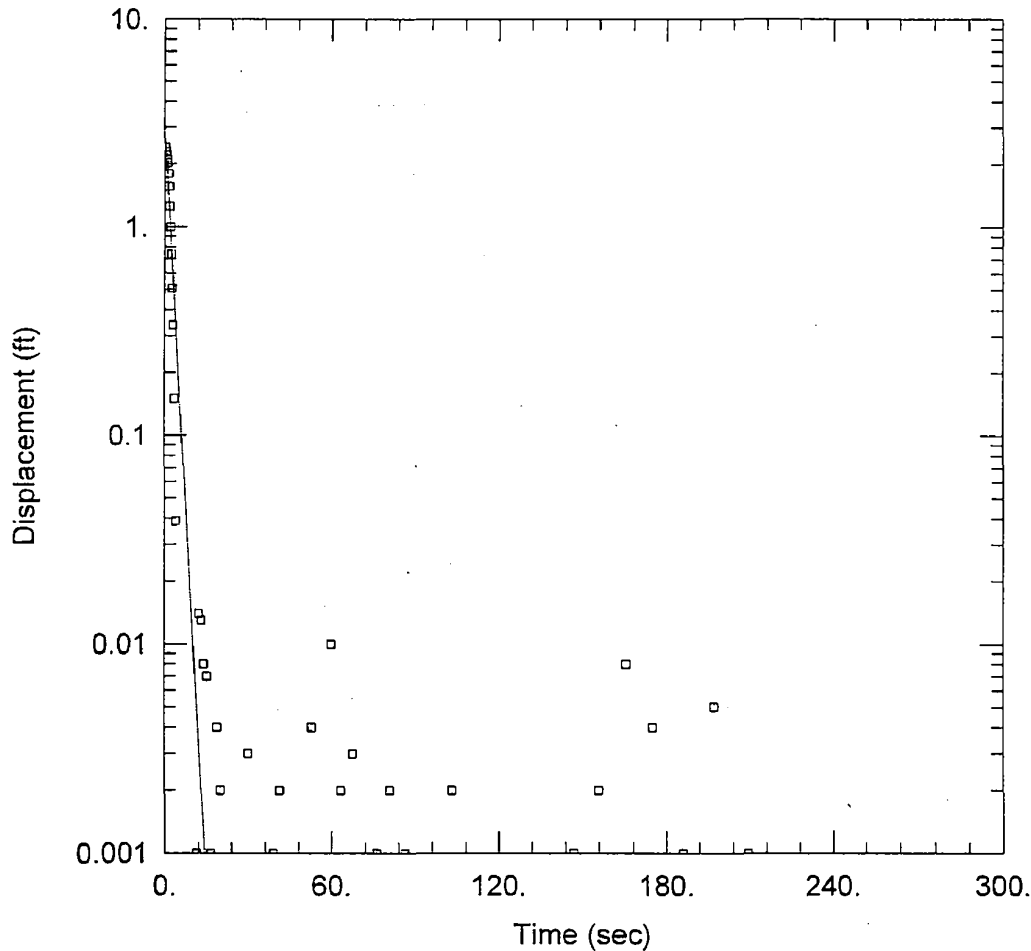
SOLUTION

Aquifer Model: Confined Solution Method: Butler



SLUG TEST REPORT

Project Name: Exelon COL	Project Number: 6489-07-1777	Page 1 of 1	OW-03L
Client: Bechtel	Contractor: MACTEC		
Location: Victoria	MACTEC Rep: Jeff Moore	Date: 1/19/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data			
Static Water Level	56.2' feet		
Total Well Depth	100' feet - 1 Foot of Sediment in bottom		
Static Water Column Height (H)	feet		
Observed Initial Displacement (H ₀)	Background	Falling Head	Rising Head
	NA	~ 2.4'	~ 4.5'
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)	87 feet		
Length of Well Screen (L)	10 feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	114305		
Slug Data			
Length	5.5 Feet		
Weight			
Diameter	1.625 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-03L Background	OW-03L Falling Head	OW-03L Rising Head
Start Time	3:56:35	4:12:57	4:17:56
End Time	4:11:35	4:16:30	4:24:37
Notes Need to add a data point At start of 26.06, I must have started pulling the slug before logger was running. will Redo this test.	OW-03L Falling Head B		OW-03L Rising Head B
	Start 4:17:57		4:32:40
	End 4:31:14		4:36:13
	Displacement ~ 2.3'		~ 3 Feet



OW-03 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-03 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-03 L)

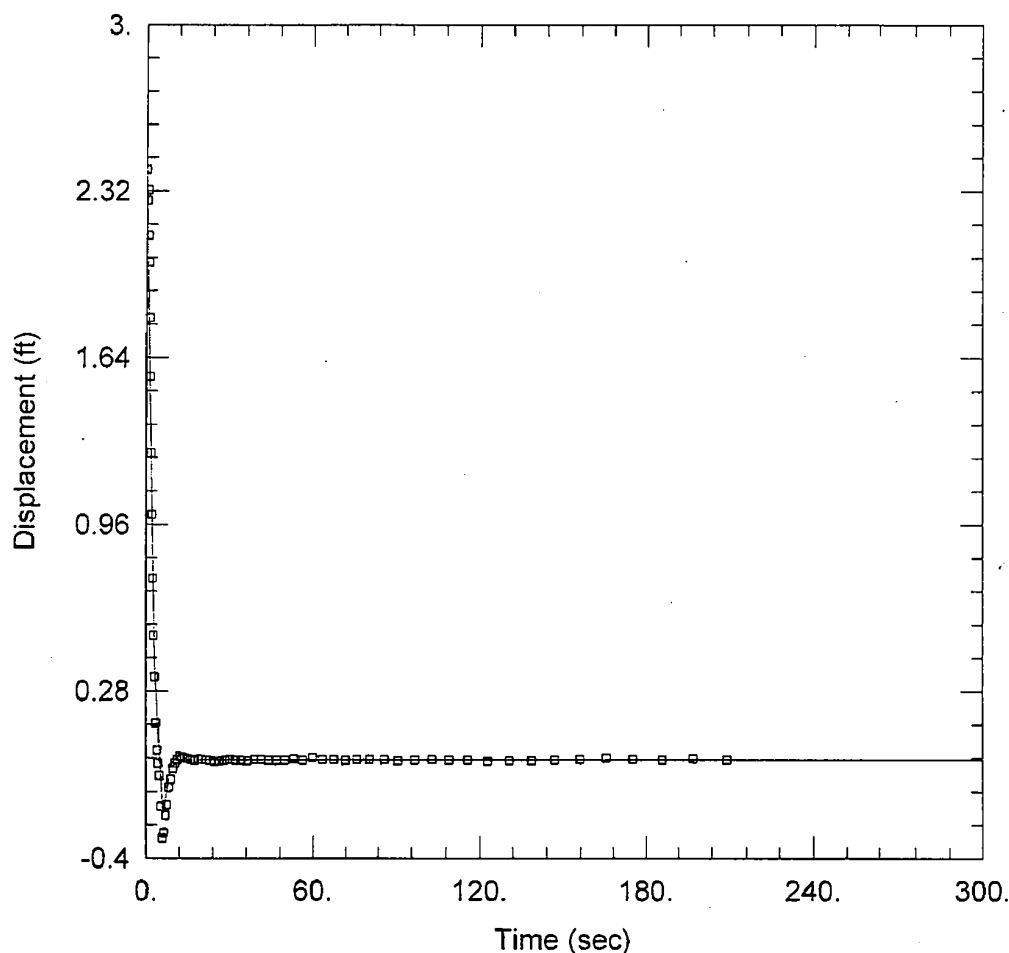
Initial Displacement: 2.412 ft Static Water Column Height: 43.8 ft
 Total Well Penetration Depth: 97. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

Prepared by: CHB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-03 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-03 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-03 L)

Initial Displacement: 2.412 ft Static Water Column Height: 43.8 ft
 Total Well Penetration Depth: 97. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

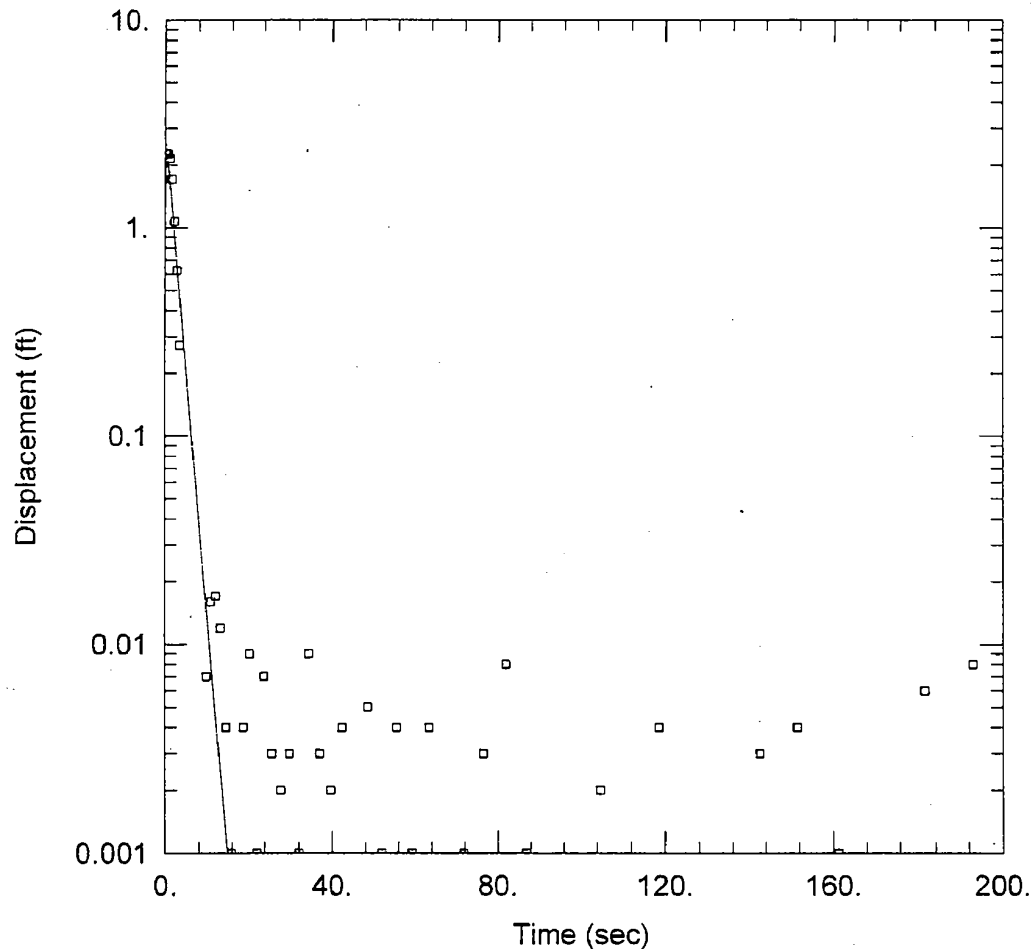
K = 0.477 ft/day Date: 7/18/2008

Page 304 of 357 65.3 ft

DCN# EXE808

Prepared by: CMB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-03 L FALLING HEAD TEST (B)

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-03 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-03 L)

Initial Displacement: 2.293 ft Static Water Column Height: 43.8 ft
 Total Well Penetration Depth: 97. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

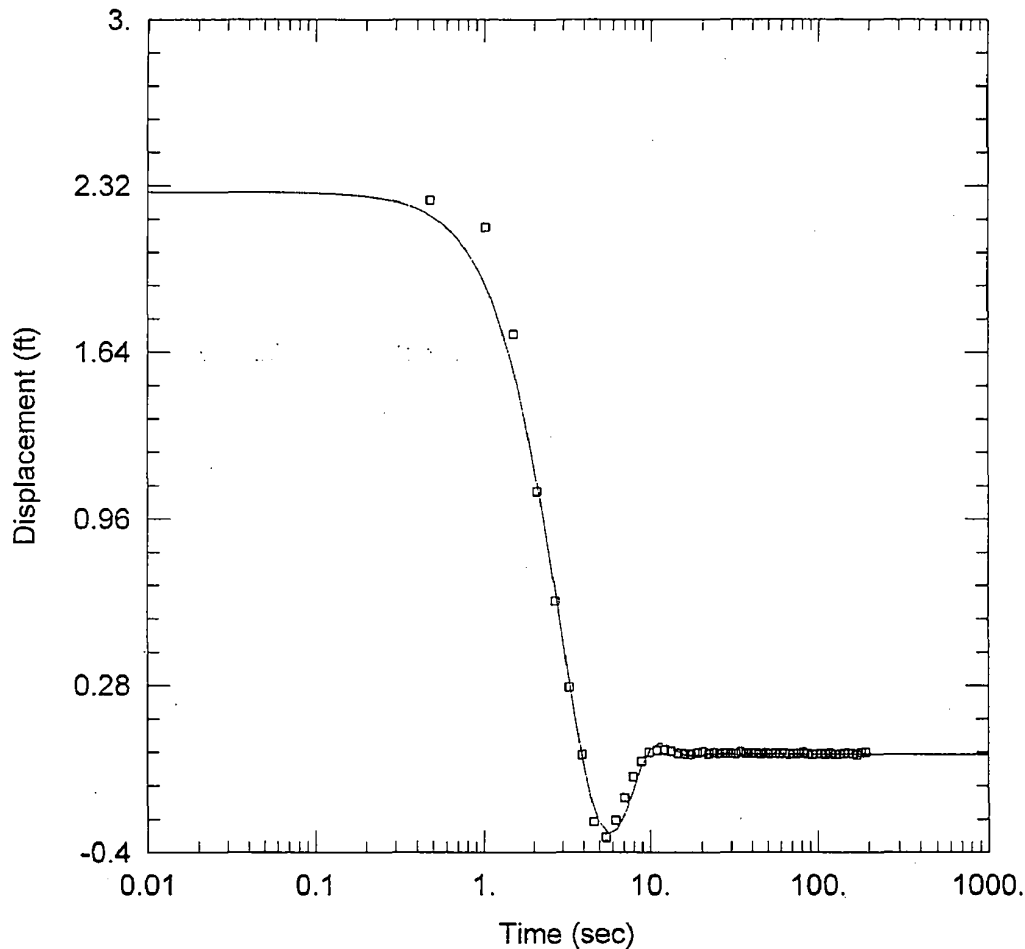
K = 0.02 ft/day Date: 1/18/2008

Page 305 of 357 2.778 ft

DCN# EXE808

Prepared by: CAB Date: 4-4-08

Checked by: BLJ Date: 4/4/08



OW-03 L FALLING HEAD TEST (B)

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-03 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-03 L)

Initial Displacement: 2.293 ft Static Water Column Height: 43.8 ft
 Total Well Penetration Depth: 97. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

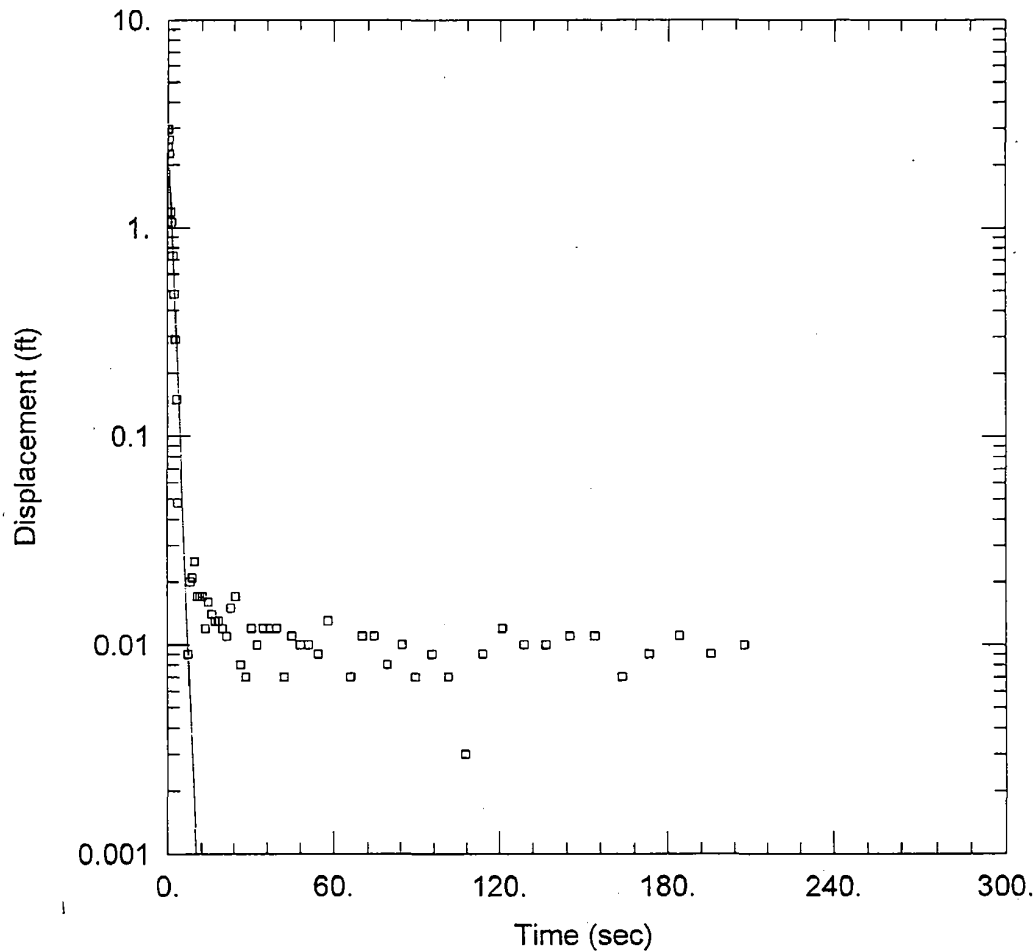
$K = 96.53 \text{ ft/day}$
 Volume 1 Rev. 0-7/18/2008

Page 306 of 657 $L_e = 78.4 \text{ ft}$

DCN# EXE808

Prepared by: CHB Date: 4-4-08

Checked by: BHA Date: 4/4/08



OW-03 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-03 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-03 L)

Initial Displacement: 2.965 ft
 Total Well Penetration Depth: 97. ft
 Casing Radius: 0.083 ft

Static Water Column Height: 43.8 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTION

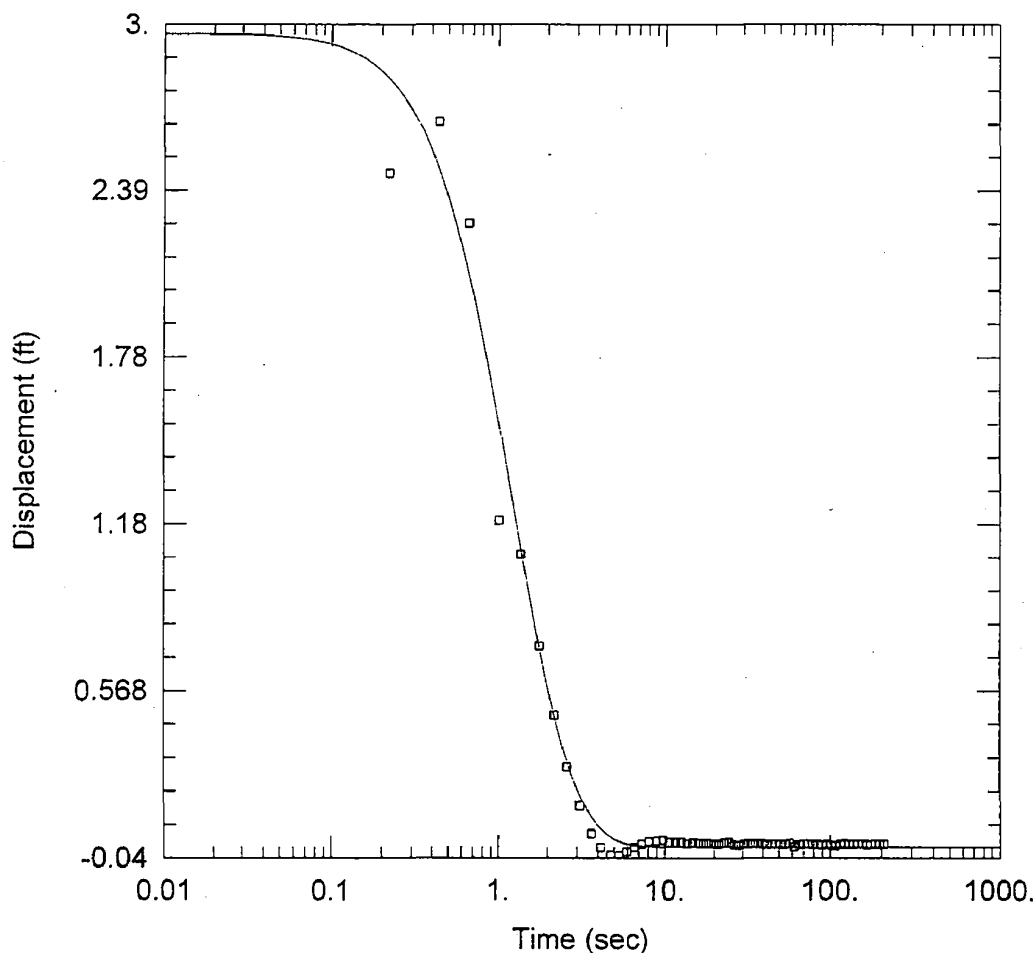
Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 120.8 ft/day

Page 307 of 367 3.175 ft

DCN# EXE808



OW-03 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-03 L
 Test Date: 1/19/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-03 L)

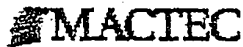
Initial Displacement: 2.965 ft Static Water Column Height: 43.8 ft
 Total Well Penetration Depth: 97. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler



Project Name: Exelon COL		Project Number: 6469-07-1777		Page 1 of 1		OW-03U	
Client: Bechtel		Contractor: MACTEC					
Location: Victoria		MACTEC Rep: Jeff Moore		Date: 1/19/08			
UNITS							
Length		Feet					
Time		Minutes					
Well Data		JAM L-H-08 56' DRY					
Static Water Level		56' feet					
Total Well Depth		56' feet					
Static Water Column Height (H)		0 feet					
Observed Initial Displacement (H_0)		Background		Falling Head		Rising Head	
		NA		NA		NA	
Saturated Thickness (b)		feet					
Conductivity Anisotropy (K_v/K_h)		Assume 1 to 1					
Depth to Top of Well Screen (d)		43 feet					
Length of Well Screen (L)		10 feet					
Radius of Well Casing (rc)		0.083 feet					
Radius of Screen (rw)		0.083 feet					
Radius of Probe (req)							
Radius of Boring (rsk) Skin Effect		0.083 feet					
Probe Serial Number		103078					
Slug Data		Slug #1					
Length		5.5 Feet well is DRY-					
weight							
Diameter		1.625 inches					
Slug Test File		Background		Falling		Rising	
File Name		OW-03U Background		OW-03U Falling Head		OW-03U Rising Head	
Start Time							
End Time							
Notes							

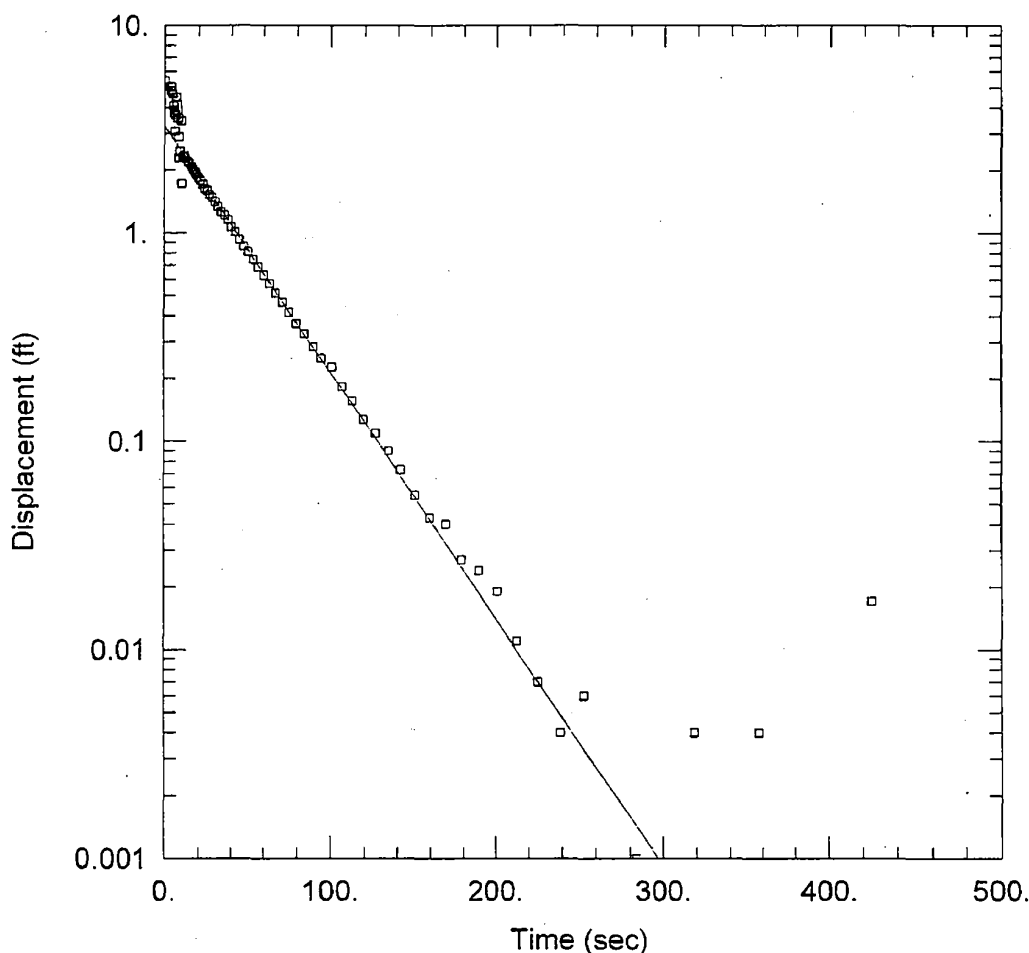
Checked by: CHB Date: 4-4-08

SLUG TEST REPORT

Project Name: Exelon COL	Project Number: 6489-07-1777	Page 1 of 1	OW-04L
Client: Bechtel	Contractor: MACTEC		
Location: Victoria	MACTEC Rep: Jeff Moore	Date: 4/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data			
Static Water Level	56.88 feet		
Total Well Depth	113.49 feet 2 Feet of sediment in bottom		
Static Water Column Height (H)	56.61 feet		
Observed Initial Displacement (H ₀)	Background	Falling Head	Rising Head
	NA	~ 5.4'	~ 8'
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)	100 feet		
Length of Well Screen (L)	10 feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	106721		
Slug Data			
Length	5.5 Feet		
Weight			
Diameter	1.625 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-04L Background	OW-04L Falling Head	OW-04L Rising Head
Start Time	9:14:38	9:32:18	9:40:41
End Time	9:24:38	9:39:23	9:44:39
Notes			
Volume 4 Rev. 0 - 7/18/2008			
Rev 0			
Page 310 of 657			
DCN# EXE808			

Prepared by: CHB Date: 4-4-08

Checked by: BWS Date: 4/4/08



OW-04 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-04 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-04 L)

Initial Displacement: 5.4 ft Static Water Column Height: 56.61 ft
 Total Well Penetration Depth: 110. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

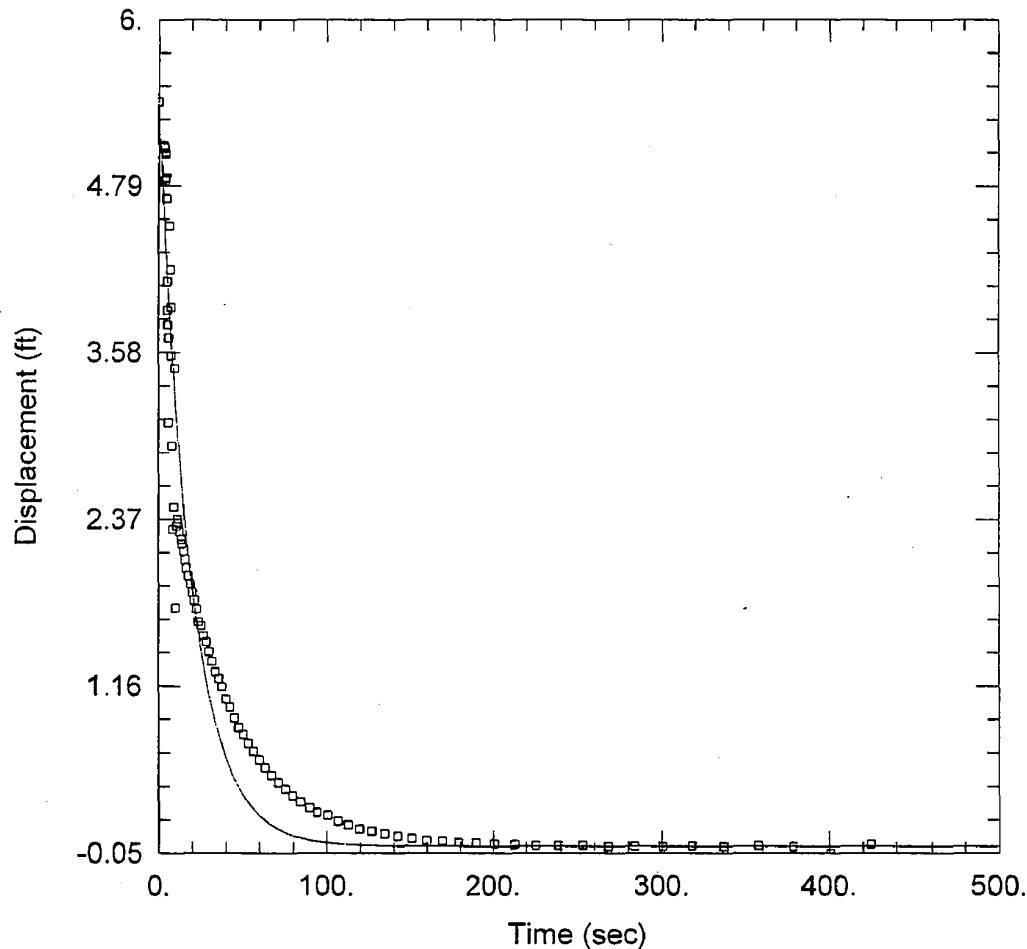
K = 1.175 ft/day Date: 7/18/2008

Page 311 of 357 3.241 ft

DCN# EXE808

Prepared by: CAB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-04 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-04 L
 Test Date: 1/20/07

AQUIFER DATA

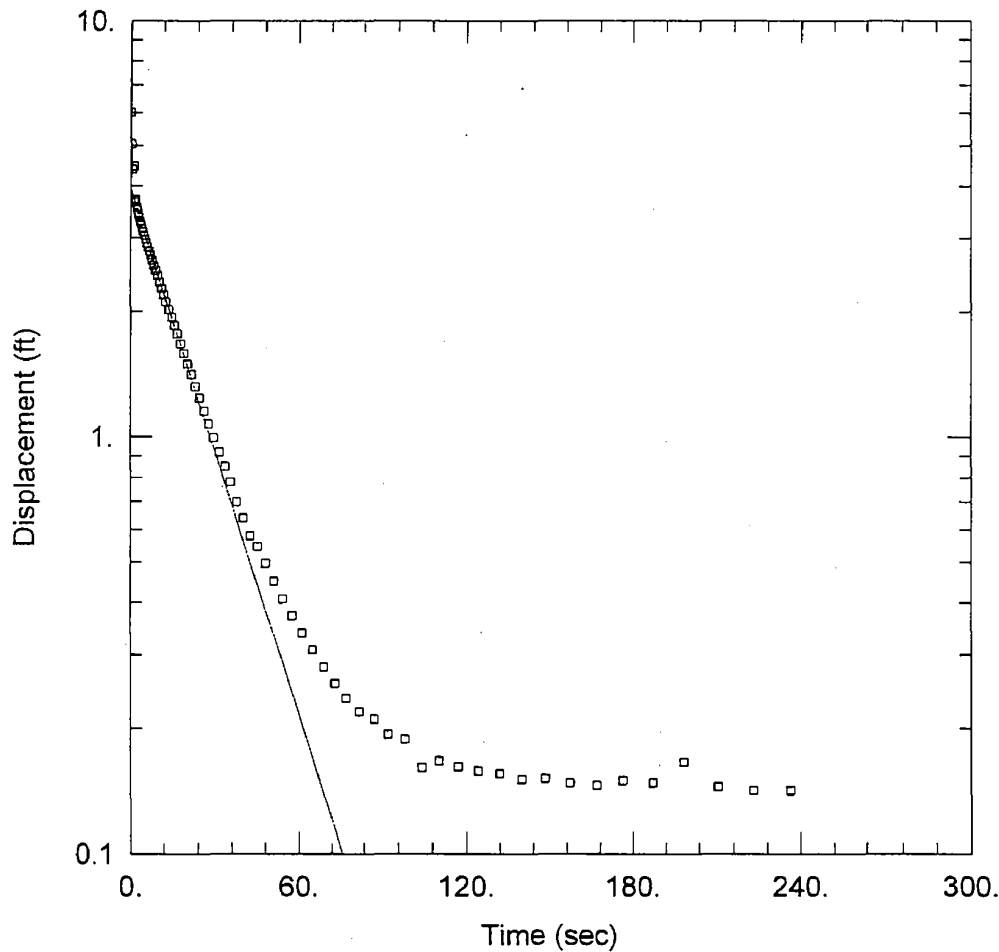
Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-04 L)

Initial Displacement: 5.4 ft Static Water Column Height: 56.61 ft
 Total Well Penetration Depth: 110. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler



OW-04 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-04 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-04 L)

Initial Displacement: 6.024 ft

Static Water Column Height: 56.61 ft

Total Well Penetration Depth: 110. ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

SOLUTION

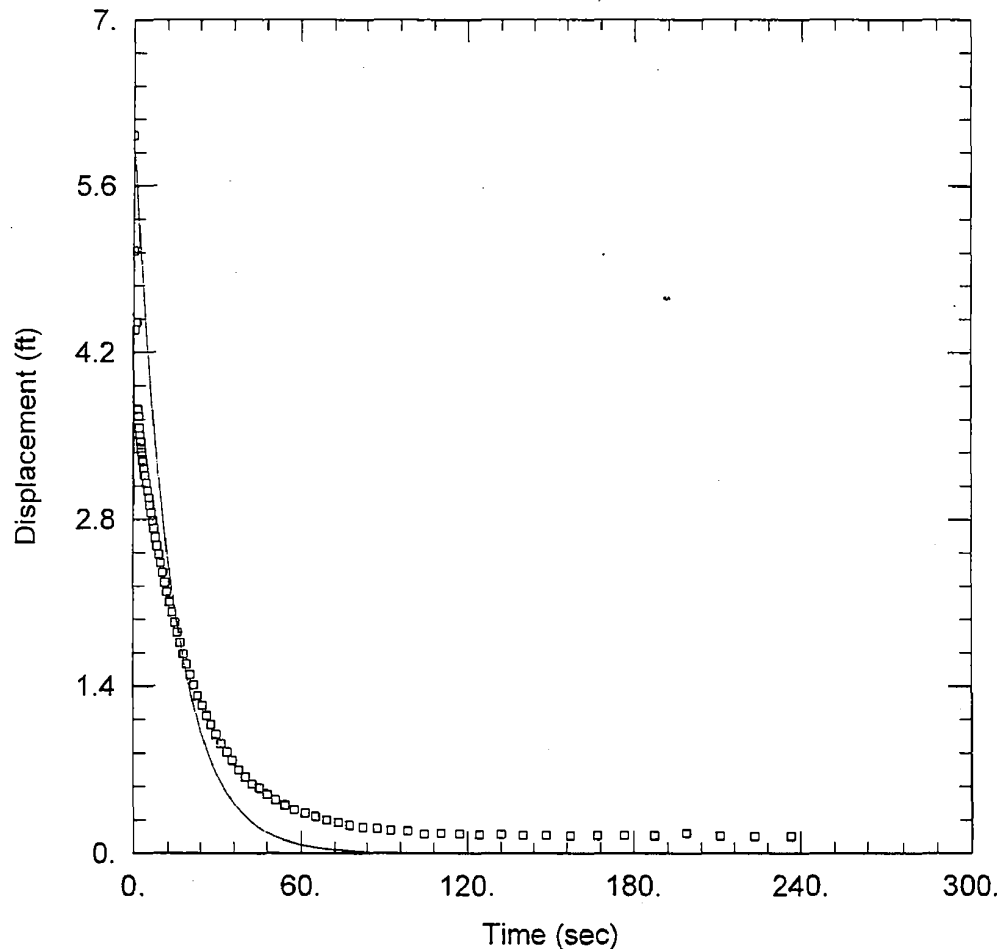
Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 7.386 ft/day 1/18/2008

Page 313 of 657 3.903 ft

DCN# EXE808



OW-04 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-04 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-04 L)

Initial Displacement: 6.024 ft

Static Water Column Height: 56.61 ft

Total Well Penetration Depth: 110. ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

SOLUTION

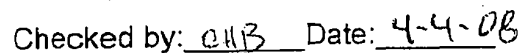
Aquifer Model: Confined

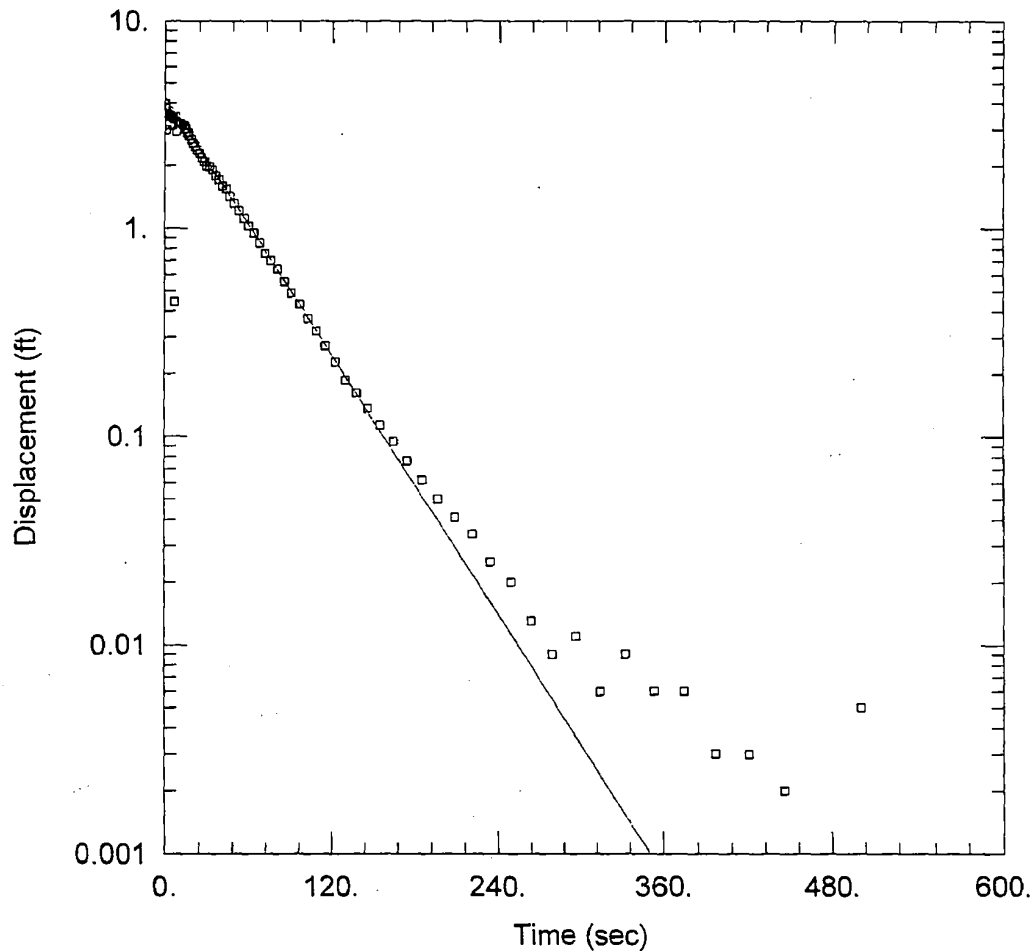
Solution Method: Butler

$K = 11.66 \text{ ft/day}$
 Volume 2 Rev. 0 7/18/2008

Page 314 of 657 $h_e = 10. \text{ ft}$

DCN# EXE808

[illegible]



OW-04 U FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-04 U
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 3.5 ft

Anisotropy Ratio (K_z/K_r): 1

WELL DATA (OW-04 U)

Initial Displacement: 3.974 ft
 Total Well Penetration Depth: 85 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 31.8 ft
 Screen Length: 10 ft
 Well Radius: 0.083 ft

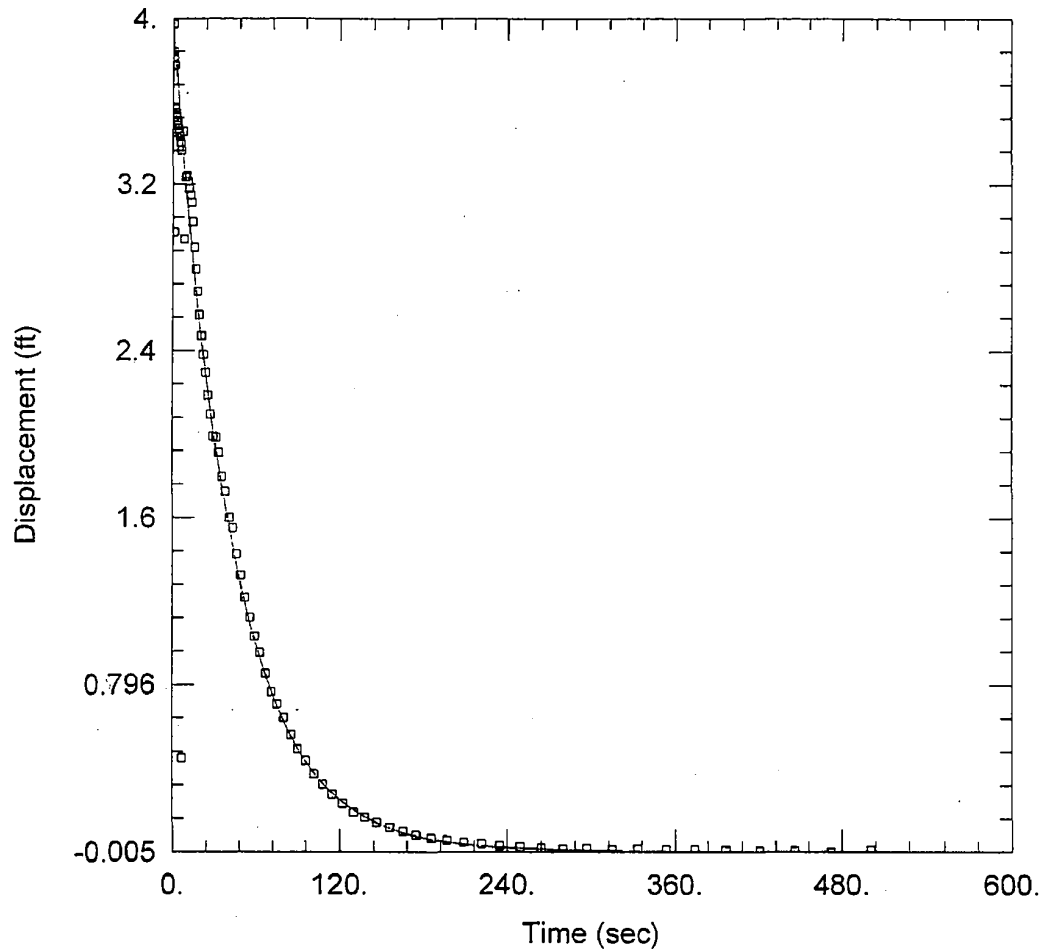
SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 9.442$ ft/day

$y_0 = 4.295$ ft

OW-04 U FALLING HEAD TESTPROJECT INFORMATION

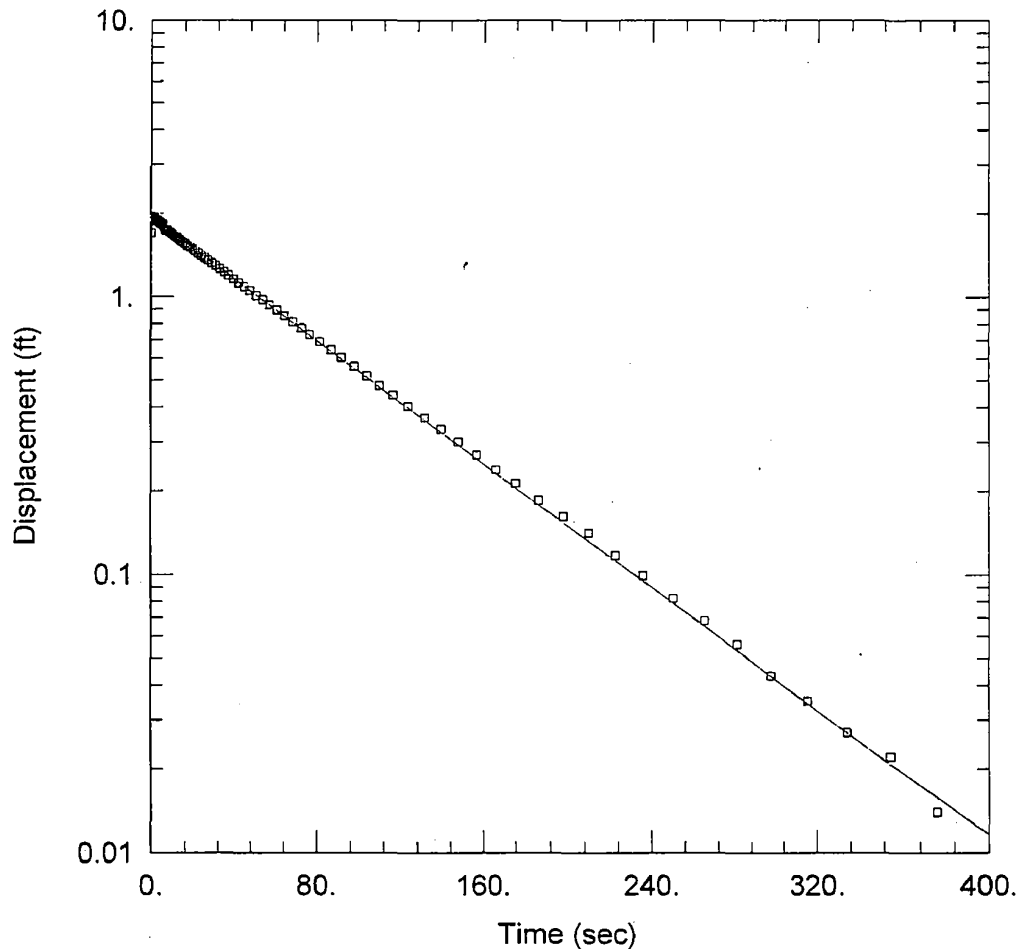
Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-04 U
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 3.5 ftAnisotropy Ratio (K_z/K_r): 1WELL DATA (OW-04 U)

Initial Displacement: 3.974 ft
Total Well Penetration Depth: 85 ft
Casing Radius: 0.083 ft

Static Water Column Height: 31.8 ft
Screen Length: 10 ft
Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Butler $K = 10.44$ ft/day $L_e = 0.1$ ft

OW-04 U RISING HEAD TESTPROJECT INFORMATION

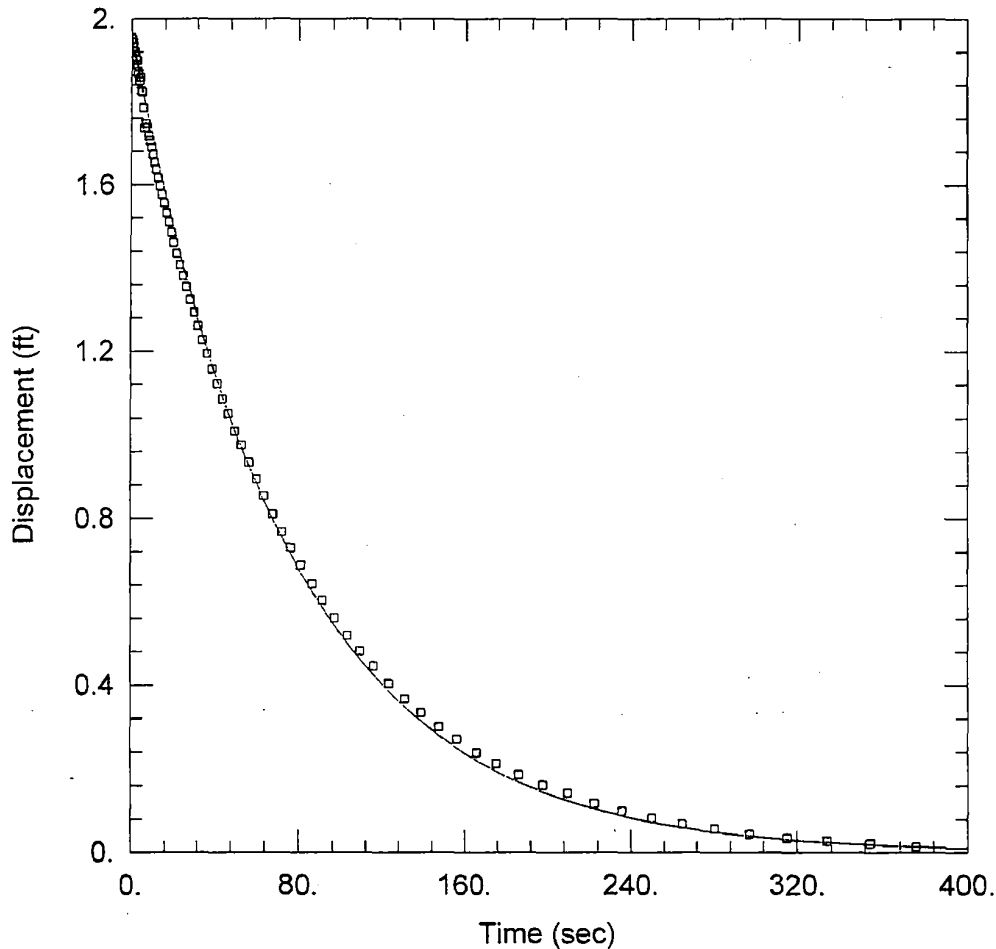
Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-04 U
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 3.5 ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-04 U)

Initial Displacement: 1.699 ft
Total Well Penetration Depth: 85 ft
Casing Radius: 0.083 ft

Static Water Column Height: 31.8 ft
Screen Length: 10 ft
Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-Rice $K = 5.057$ ft/day $y_0 = 1.928$ ft



OW-04 U RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-04 U
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 3.5 ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-04 U)

Initial Displacement: 1.956 ft Static Water Column Height: 31.8 ft
 Total Well Penetration Depth: 85. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

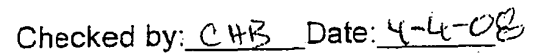
SOLUTION

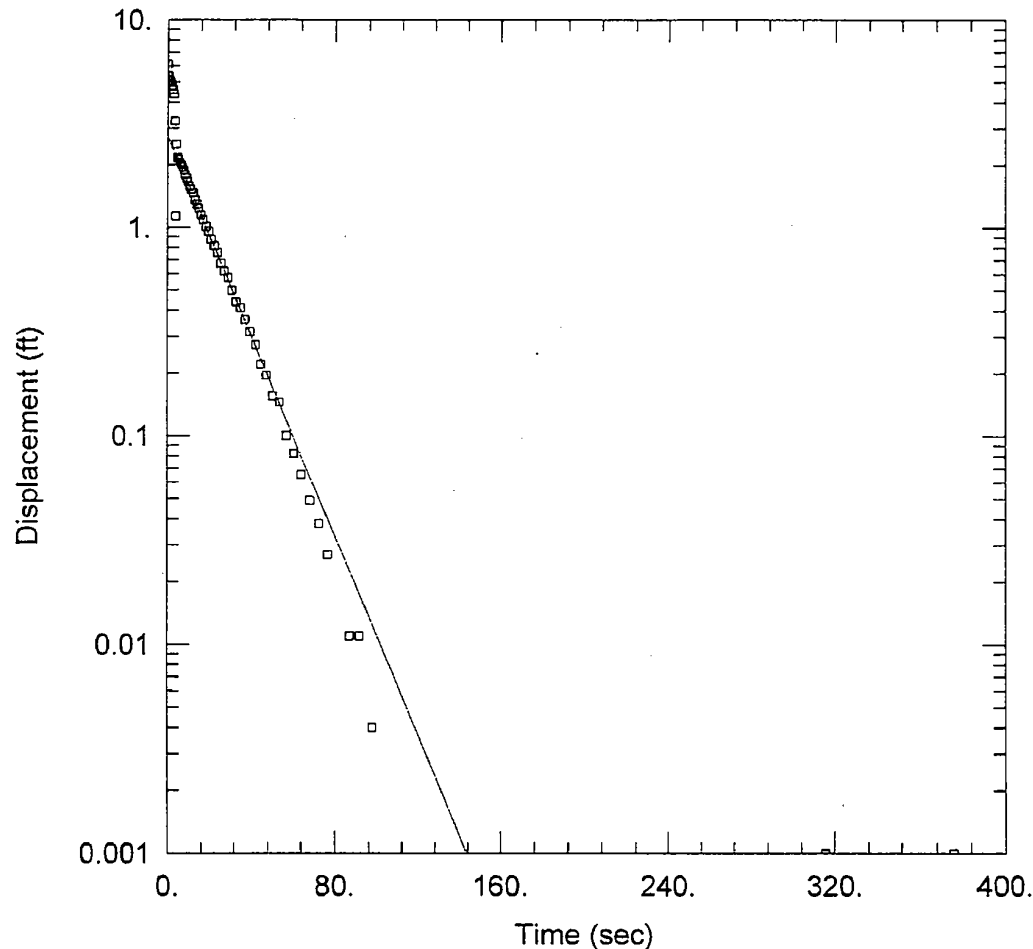
Aquifer Model: Confined Solution Method: Butler

$K = 5.94 \text{ ft/day}$
 Volume 4 Rev. 0 - 7/18/2008

$L_e = 0.1 \text{ ft}$
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DCN# EXE808

[illegible]

OW-05 L FALLING HEAD TESTPROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-05 L
 Test Date: 1/20/07

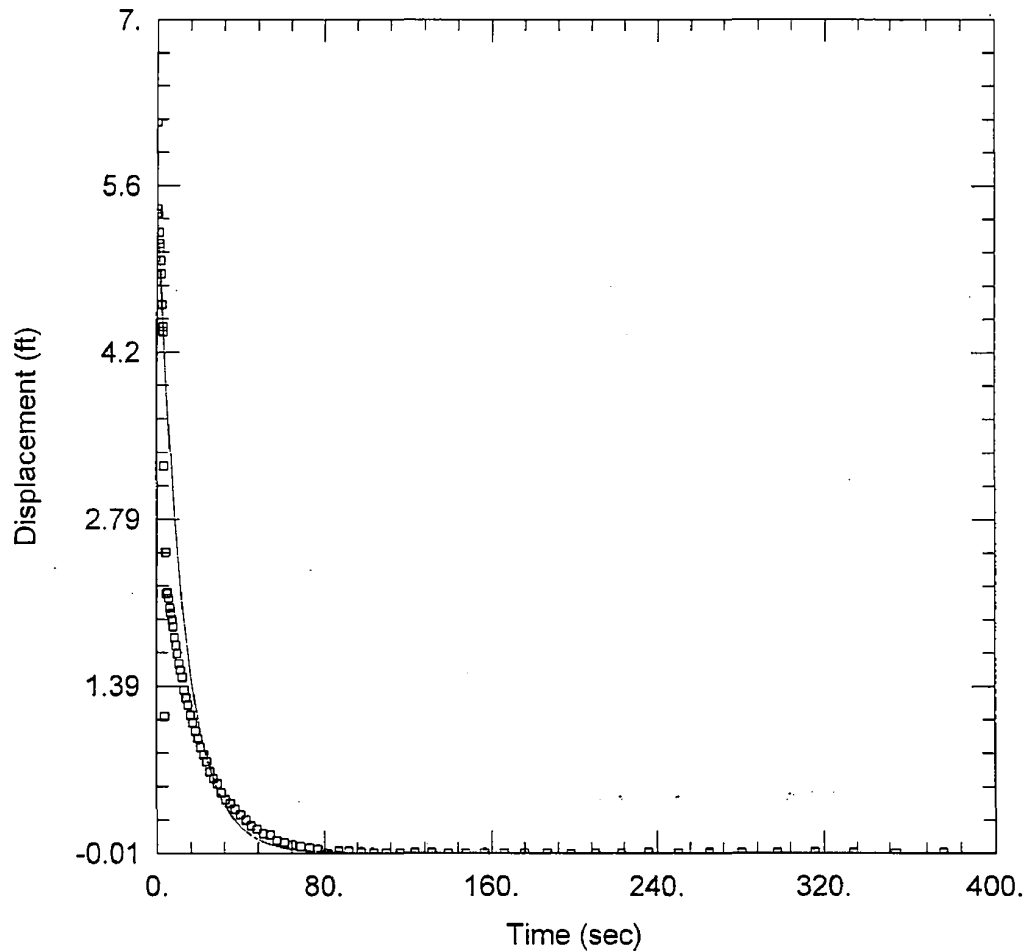
AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-05U)

Initial Displacement: 5.4 ft
 Total Well Penetration Depth: 130. ft
 Casing Radius: 0.083 ft

Static Water Column Height: 80.03 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-RiceK = 8.617 ft/dayPage 321 of 357 $\gamma_0 =$ 2.749 ft

DCN# EXE808

OW-05 L FALLING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-05 L
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-05U)

Initial Displacement: 5.4 ft
Total Well Penetration Depth: 130. ft
Casing Radius: 0.083 ft

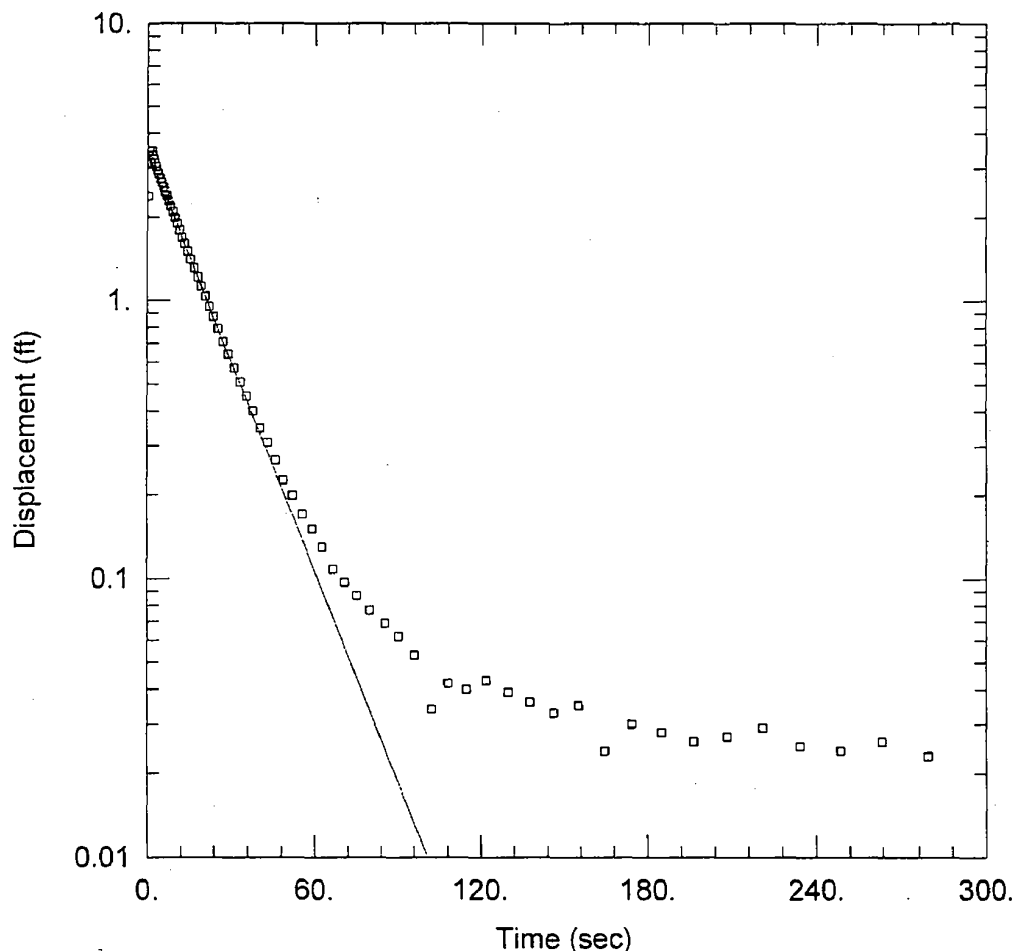
Static Water Column Height: 80.03 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Butler $K = 12.78 \text{ ft/day}$
Volume 4 Rev. 0-7/18/2008Page 322 of 557 $L_e = 55.43 \text{ ft}$

DCN# EXE808

Prepared by: CHB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-05 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-05 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-05 L)

Initial Displacement: 3.189 ft Static Water Column Height: 80.03 ft
 Total Well Penetration Depth: 130. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

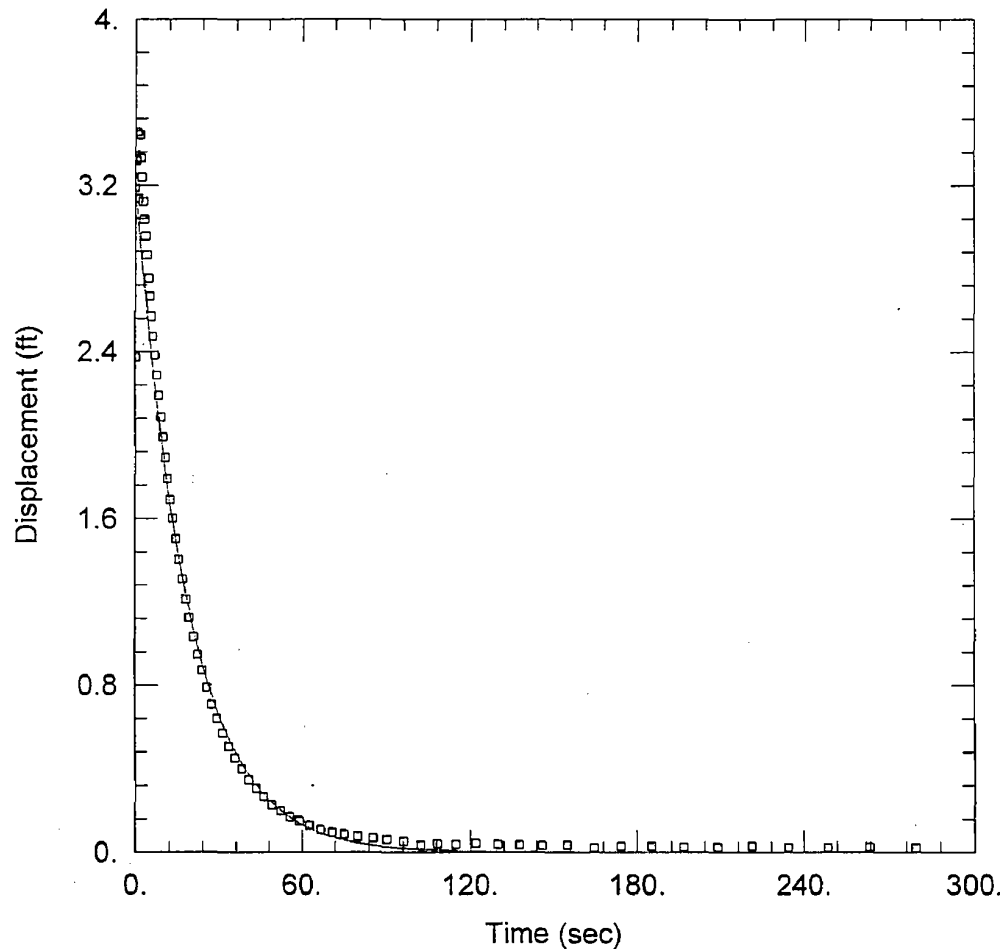
$K = 9.045 \text{ ft/day}$
 Volume 4 Rev. 07/18/2008

Page 323 of 357 $h_0 = 3.453 \text{ ft}$

DCN# EXE808

Prepared by: CAB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-05 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-05 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-05 L)

Initial Displacement: 3.189 ft Static Water Column Height: 80.03 ft
 Total Well Penetration Depth: 130. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

$K = 8.337 \text{ ft/day}$
 Volume 4 Rev. 07/18/2008

Page 324 of 857 $l_e = 55.39 \text{ ft}$

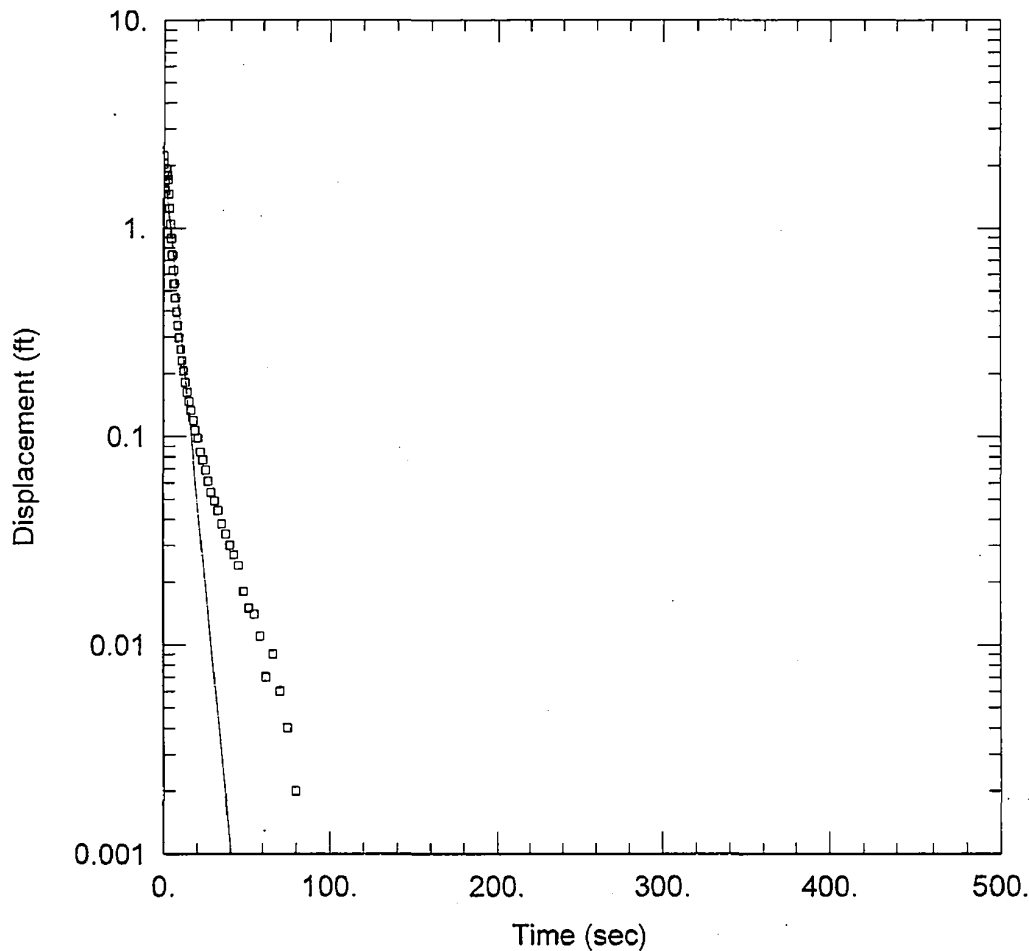
DCN# EXE808

SLUG TEST REPORT

Project Name: Exelon COL		Project Number: 6489-07-1777		Page 1 of 1		OW-05U	
Client: Bechtel		Contractor: MACTEC					
Location: Victoria		MACTEC Rep: JEFF Moore				Date: 1/20/08	
UNITS							
Length		Feet					
Time		Minutes					
Well Data							
Static Water Level		52.54 feet					
Total Well Depth		59.28 feet					
Static Water Column Height (H)		6.74 feet					
		Background		Falling Head		Rising Head	
Observed Initial Displacement (H ₀)		NA		~ 3'		~ 2'	
Saturated Thickness (b)		feet					
Conductivity Anisotropy (Kv/Kh)		Assume 1 to 1					
Depth to Top of Well Screen (d)		46 feet					
Length of Well Screen (L)		10 feet					
Radius of Well Casing (rc)		0.083 feet					
Radius of Screen (rw)		0.083 feet					
Radius of Probe (req)							
Radius of Boring (rsk) Skin Effect		0.083 feet					
Probe Serial Number		112335					
Slug Data		Slug #1					
Length		5.5 feet					
weight							
Diameter		1.625 inches					
Slug Test File		Background		Falling		Rising	
File Name		OW-05U Background		OW-05U Falling Head		OW-05U Rising Head	
Start Time		10:51:37		11:07:41		11:16:20	
End Time		11:06:37		11:15:11		11:23:50	
Notes		Bottom Appears Hard - will place transducer just off Bottom For slug test					

Prepared by: CHB Date: 4-4-08

Checked by: BHA Date: 4/4/08



OW-05 U RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-05 U
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-05U)

Initial Displacement: 2.236 ft
 Total Well Penetration Depth: 56. ft
 Casing Radius: 0.083 ft

Static Water Column Height: 6.74 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

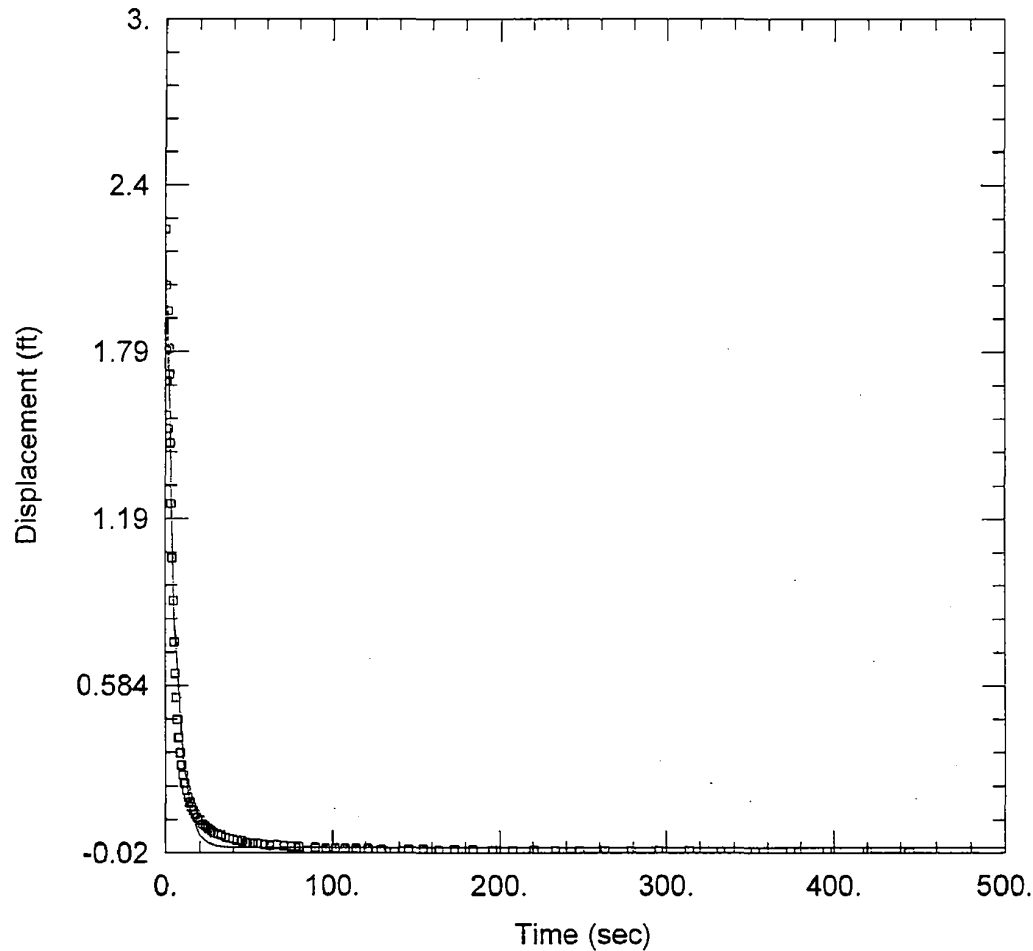
$K = 26.79 \text{ ft/day}$
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 $r_0 = 2.161 \text{ ft}$

DCN# EXE808

Prepared by: CHB Date: 4-4-08

Checked by: BWH Date: 4/4/08



OW-05 U RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-05 U
Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-05U)

Initial Displacement: 2.236 ft Static Water Column Height: 6.74 ft
Total Well Penetration Depth: 56. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

$K = 31.06 \text{ ft/day}$
Volume 4 REV. 07/18/2008

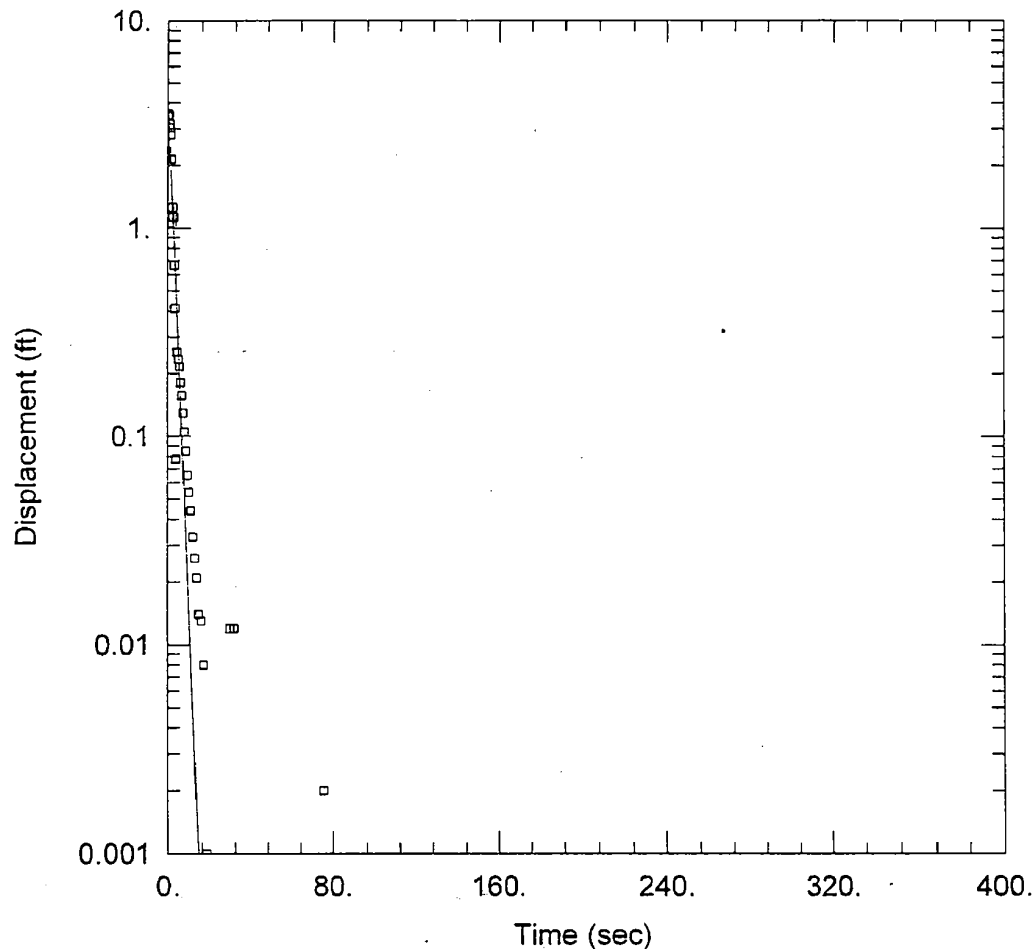
Page 327 of 657
 $l_e = 0.1 \text{ ft}$

DCN# EXE808

Checked by: CHB Date: 4-4-08

SLUG TEST REPORT

Project Name: Exelon COL	Project Number: 6468-07-1777	Page 1 of 1	OW-06L OW-06L JPM-20-08
Client: Bechtel	Contractor: MACTEC		
Location: Victoria	MACTEC Rep: Jeff Moore	Date: 1/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data			
Static Water Level	54.38 feet		
Total Well Depth	98.62 feet		
Static Water Column Height (H)	44.24 feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H ₀)	NA	~3.4'	~2
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)	85 feet		
Length of Well Screen (L)	10 feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	106721		
Slug Data			
Length	5.5'		
Weight			
Diameter	1.625 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-06L Background	OW-06L Falling Head	OW-06L Rising Head
Start Time	12:15:32	12:31:27	12:37:45
End Time	12:30:32	12:36:46	12:43:23
Notes			
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Rev 0			
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DCN# EXE808			

OW-06 L FALLING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-06 L
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-06 L)

Initial Displacement: 3.544 ft
Total Well Penetration Depth: 95. ft
Casing Radius: 0.083 ft

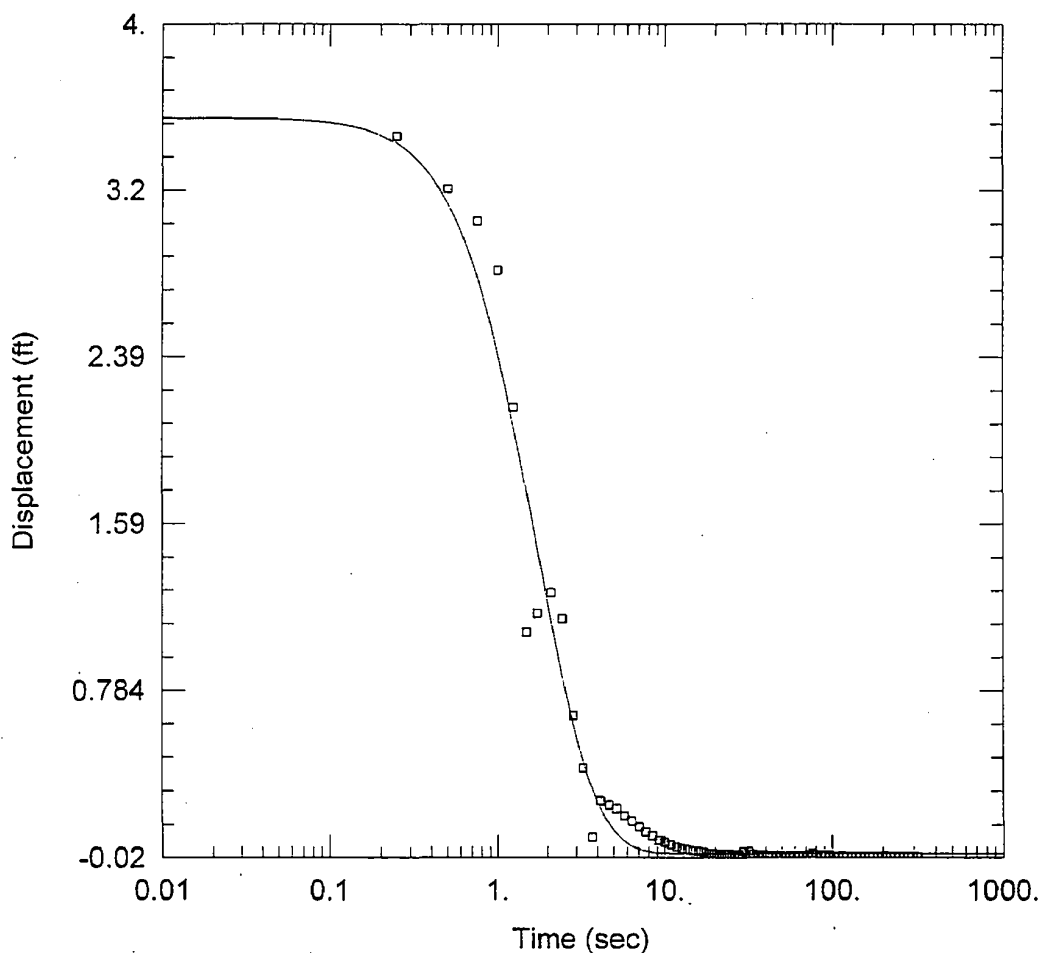
Static Water Column Height: 44.24 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-Rice

$K = 87.21 \text{ ft/day}$
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$y_0 = 4.001 \text{ ft}$
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DCN# EXE808

OW-06 L FALLING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-06 L
Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

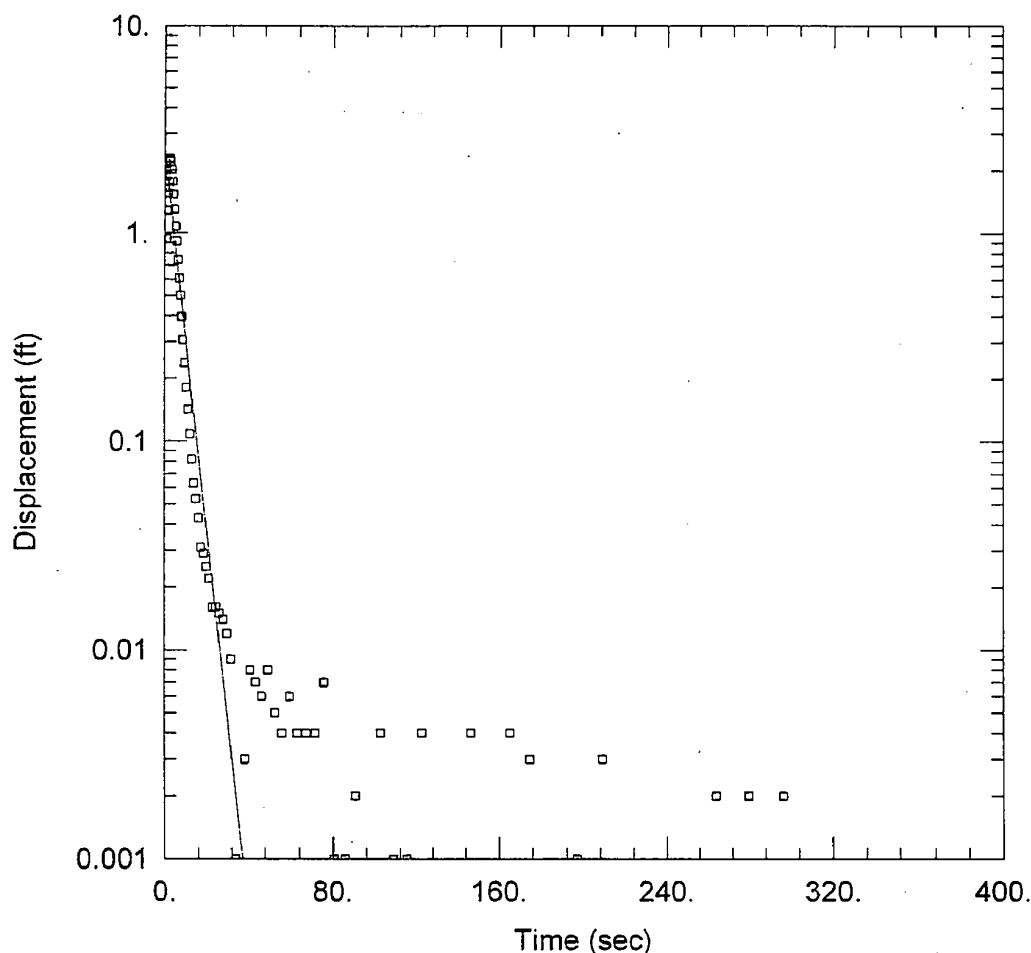
WELL DATA (OW-06 L)

Initial Displacement: 3.544 ft Static Water Column Height: 44.24 ft
Total Well Penetration Depth: 95. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

$K = 88.25 \text{ ft/day}$ $Le = 23.03 \text{ ft}$
Volume 4 Rev. 0 - 7/18/2008

OW-06 L RISING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-06 L
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-06 L)

Initial Displacement: 2.154 ft
Total Well Penetration Depth: 95. ft
Casing Radius: 0.083 ft

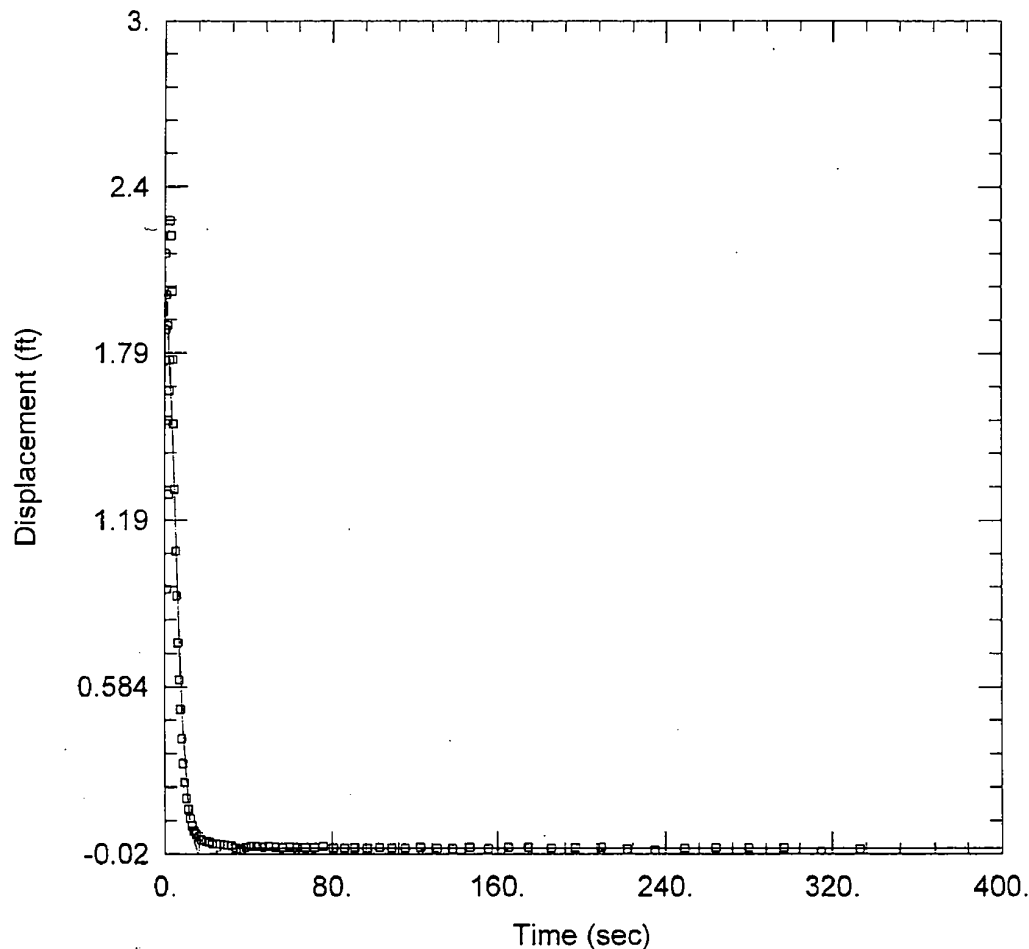
Static Water Column Height: 44.24 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-Rice

$K = 31.36 \text{ ft/day}$
Volume 4 Rev. 0 - 7/18/2008

$y_0 = 2.35 \text{ ft}$
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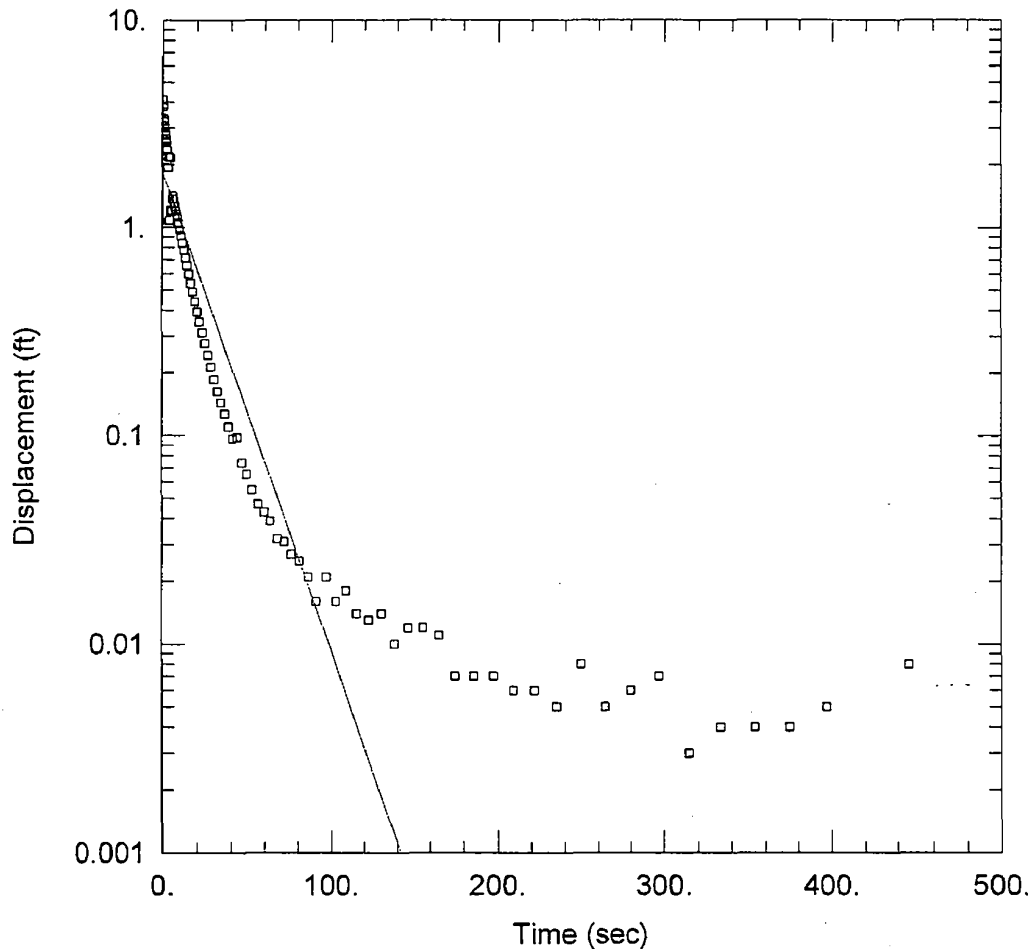
DCN# EXE808

OW-06 L RISING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-06 L
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 10. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-06 L)Initial Displacement: 2.154 ftStatic Water Column Height: 44.24 ftTotal Well Penetration Depth: 95. ftScreen Length: 10. ftCasing Radius: 0.083 ftWell Radius: 0.083 ftSOLUTIONAquifer Model: ConfinedSolution Method: Butler $K = 29.45$ ft/day $L_e = 367.7$ ft

[illegible]



OW-06 U FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-06 U
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 7. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-06 U)

Initial Displacement: 4.121 ft
 Total Well Penetration Depth: 63. ft
 Casing Radius: 0.083 ft

Static Water Column Height: 12.55 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

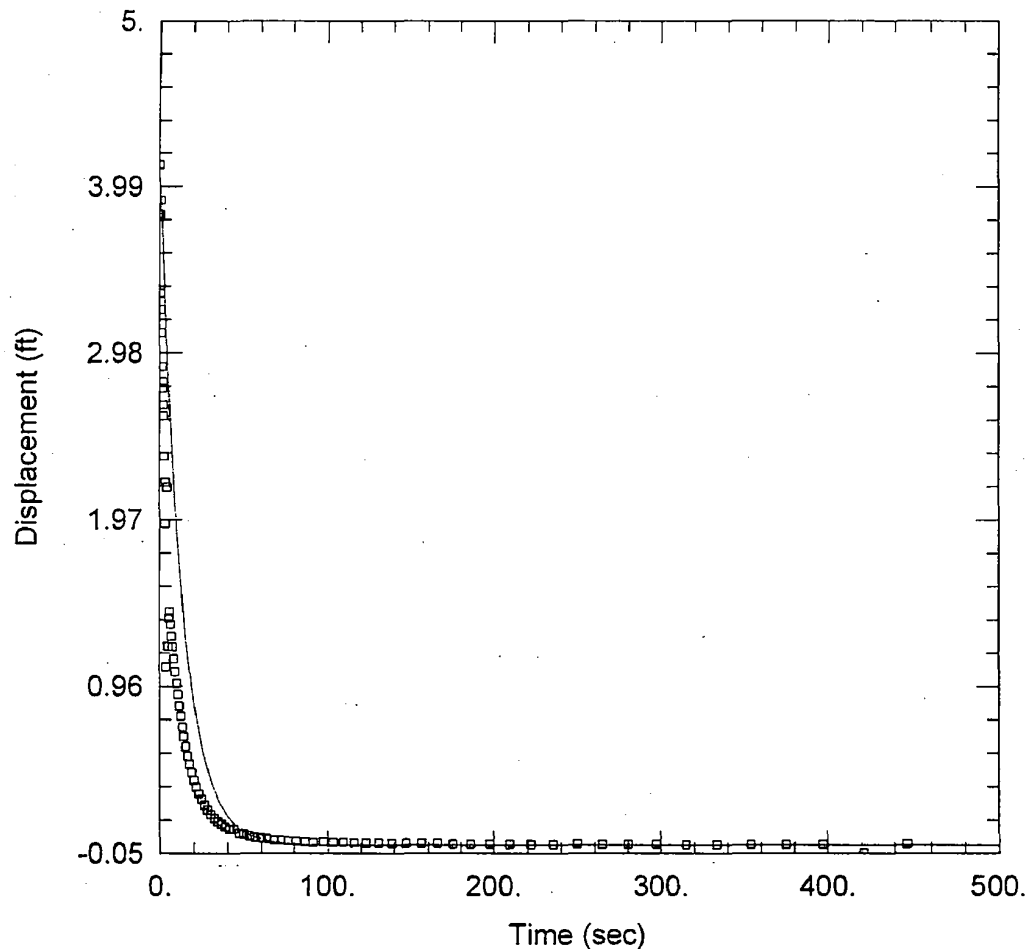
SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 10.63 \text{ ft/day}$

$y_0 = 1.821 \text{ ft}$

OW-06 U FALLING HEAD TESTPROJECT INFORMATION

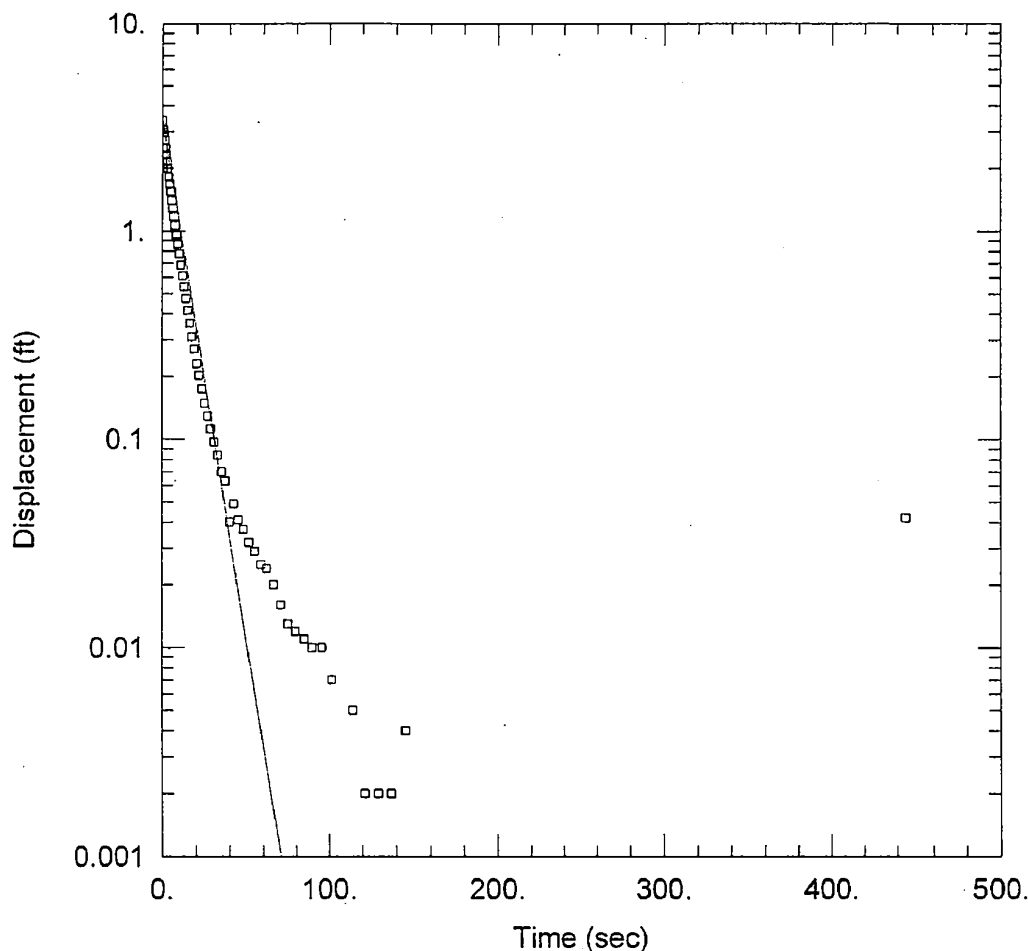
Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-06 U
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 7. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-06 U)

Initial Displacement: 4.121 ft
Total Well Penetration Depth: 63. ft
Casing Radius: 0.083 ft

Static Water Column Height: 12.55 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Butler $K =$ 17.7 ft/day $L_e =$ 0.1 ft

OW-06 U RISING HEAD TESTPROJECT INFORMATION

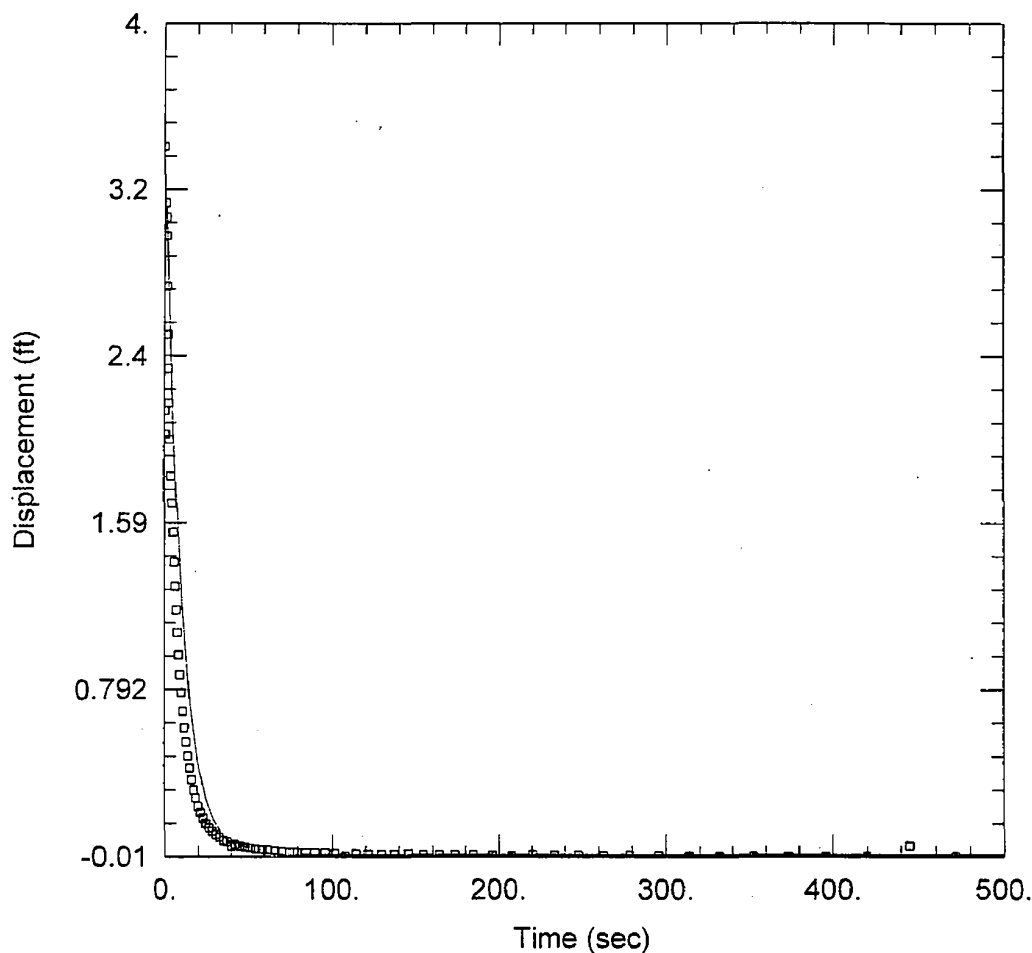
Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-06 U
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 7. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-06 U)

Initial Displacement: 3.404 ft
Total Well Penetration Depth: 63. ft
Casing Radius: 0.083 ft

Static Water Column Height: 12.55 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

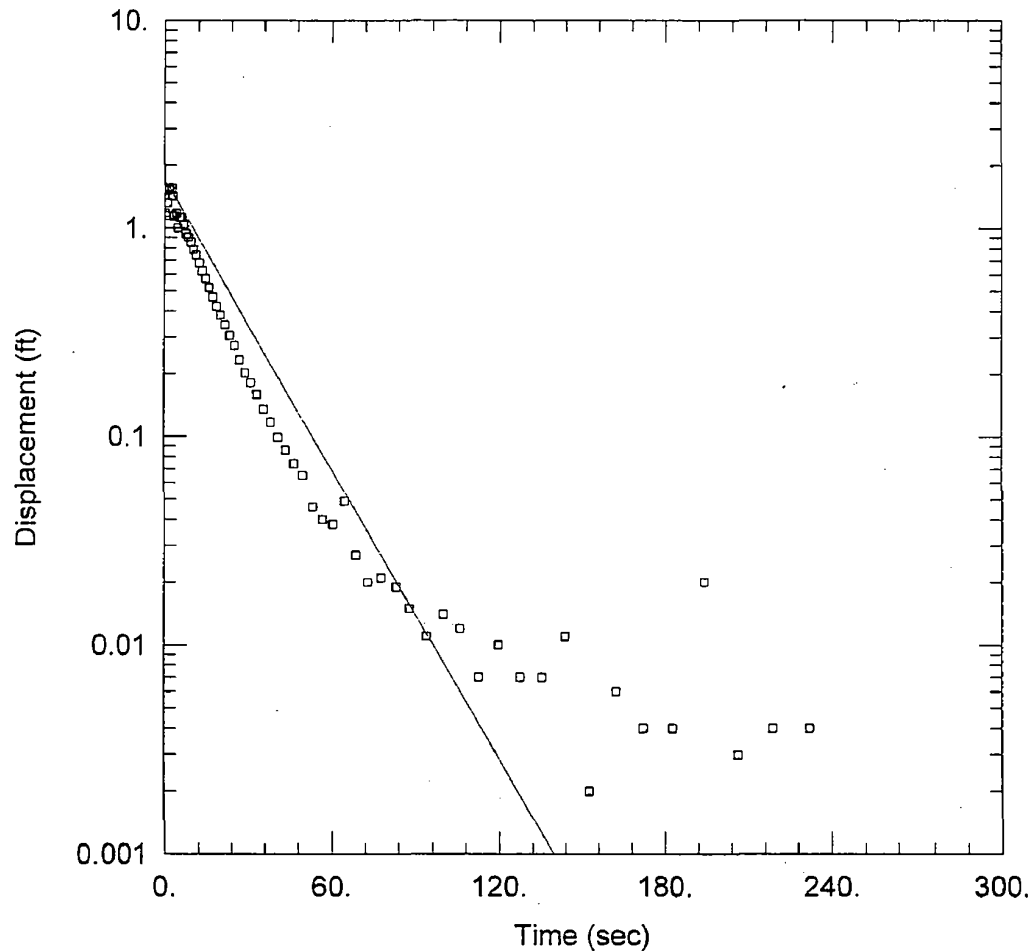
SOLUTIONAquifer Model: ConfinedSolution Method: Bouwer-Rice $K = 23.25$ ft/day $y_0 = 3.47$ ft

OW-06 U RISING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-06 U
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 7. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-06 U)Initial Displacement: 3.404 ftStatic Water Column Height: 12.55 ftTotal Well Penetration Depth: 63. ftScreen Length: 10. ftCasing Radius: 0.083 ftWell Radius: 0.083 ftSOLUTIONAquifer Model: ConfinedSolution Method: Butler $K = 23.08$ ft/day $L_e = 0.1$ ft

Project Name: Exelon COL		Project Number: 6469-07-1777		Page 1 of 1		OW-07L	
Client: Bechtel		Contractor: MACTEC					
Location: Victoria		MACTEC Rep: Jeff Moyer		Date: 1/20/08			
UNITS							
Length		Feet					
Time		Minutes					
Well Data							
Static Water Level		58.2 feet					
Total Well Depth		126.3 feet 3.5' of sediment in bottom					
Static Water Column Height (H)		68.1 feet					
		Background		Falling Head		Rising Head	
Observed Initial Displacement (H ₀)		NA		~1.6'		~1.6'	
Saturated Thickness (b)		feet					
Conductivity Anisotropy (Kv/Kh)		Assume 1 to 1					
Depth to Top of Well Screen (d)		113 feet					
Length of Well Screen (L)		10 feet					
Radius of Well Casing (rc)		0.083 feet					
Radius of Screen (rw)		0.083 feet					
Radius of Probe (req)							
Radius of Boring (rsk) Skin Effect		0.083 feet					
Probe Serial Number		106721					
Slug Data		Double Slug					
Length		11'					
Weight							
Diameter		1.625 inches					
Slug Test File		Background		Falling		Rising	
File Name		OW-07L Background		OW-07L Falling Head		OW-07L Rising Head	
Start Time		3:54:37		4:32:58		4:38:06	
End Time		4:27:37		4:36:57			
Notes		water leaks in OW-0706 & the same					



OW-07 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-07 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 7. ft Anisotropy Ratio (K_z/K_r): 1.

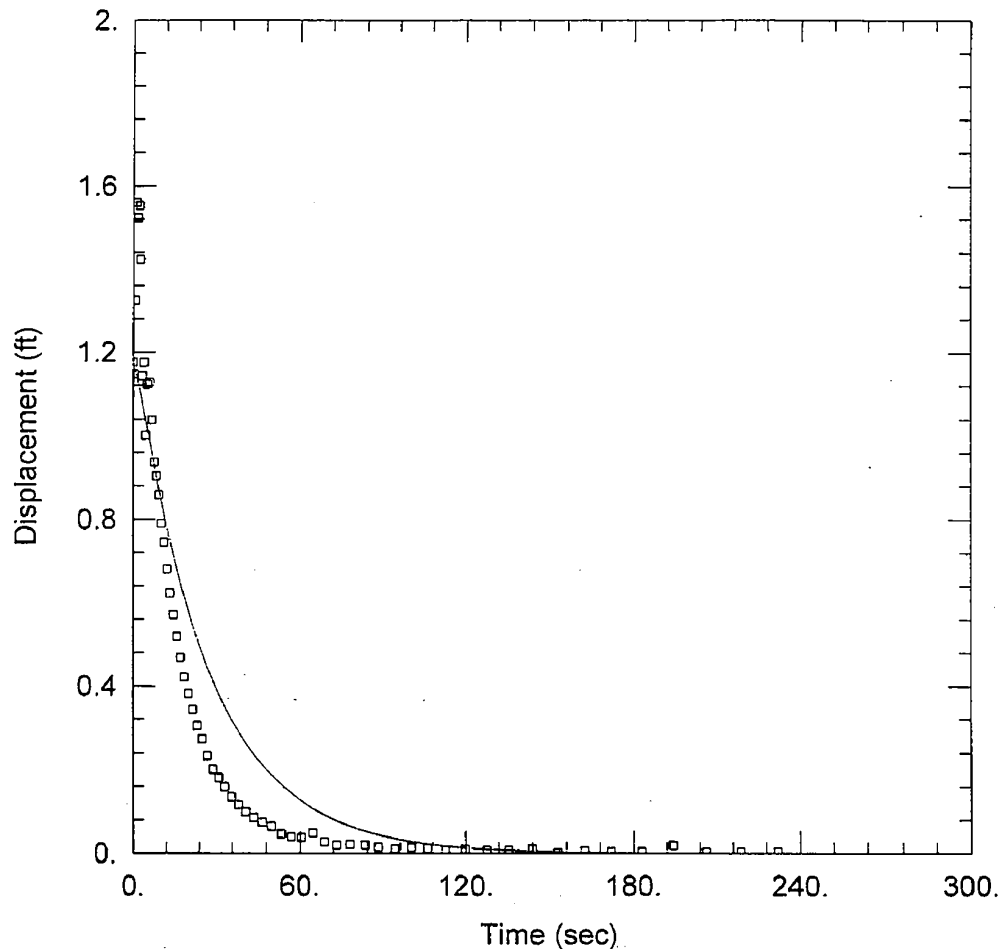
WELL DATA (OW-07 L)

Initial Displacement: 1.177 ft Static Water Column Height: 68.1 ft
 Total Well Penetration Depth: 123. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

$K = 11.55 \text{ ft/day}$ $y_0 = 1.697 \text{ ft}$

OW-07 L FALLING HEAD TESTPROJECT INFORMATION

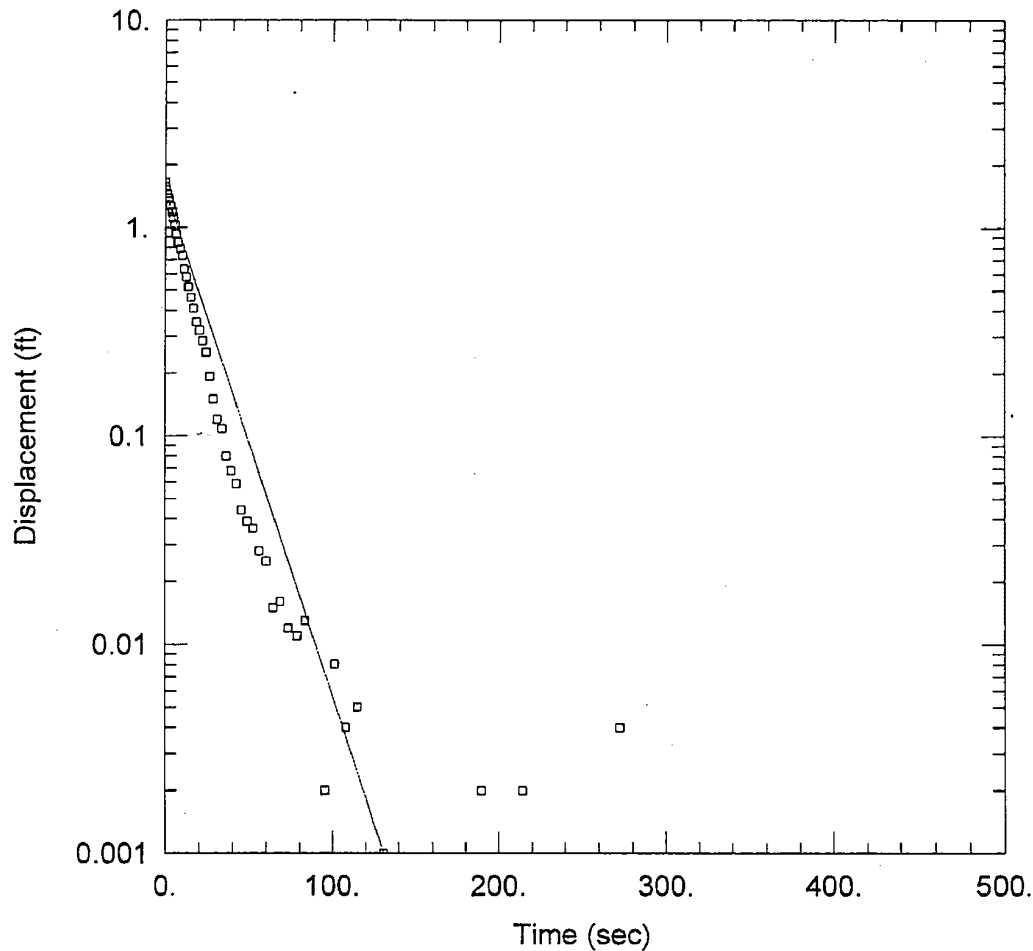
Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-07 L
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 7. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-07 L)

Initial Displacement: 1.177 ft
Total Well Penetration Depth: 123. ft
Casing Radius: 0.083 ft

Static Water Column Height: 68.1 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTIONAquifer Model: ConfinedSolution Method: Butler $K = 8.148 \text{ ft/day}$ $L_e = 1000. \text{ ft}$



OW-07 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-07 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 7. ft Anisotropy Ratio (K_z/K_r): 1.

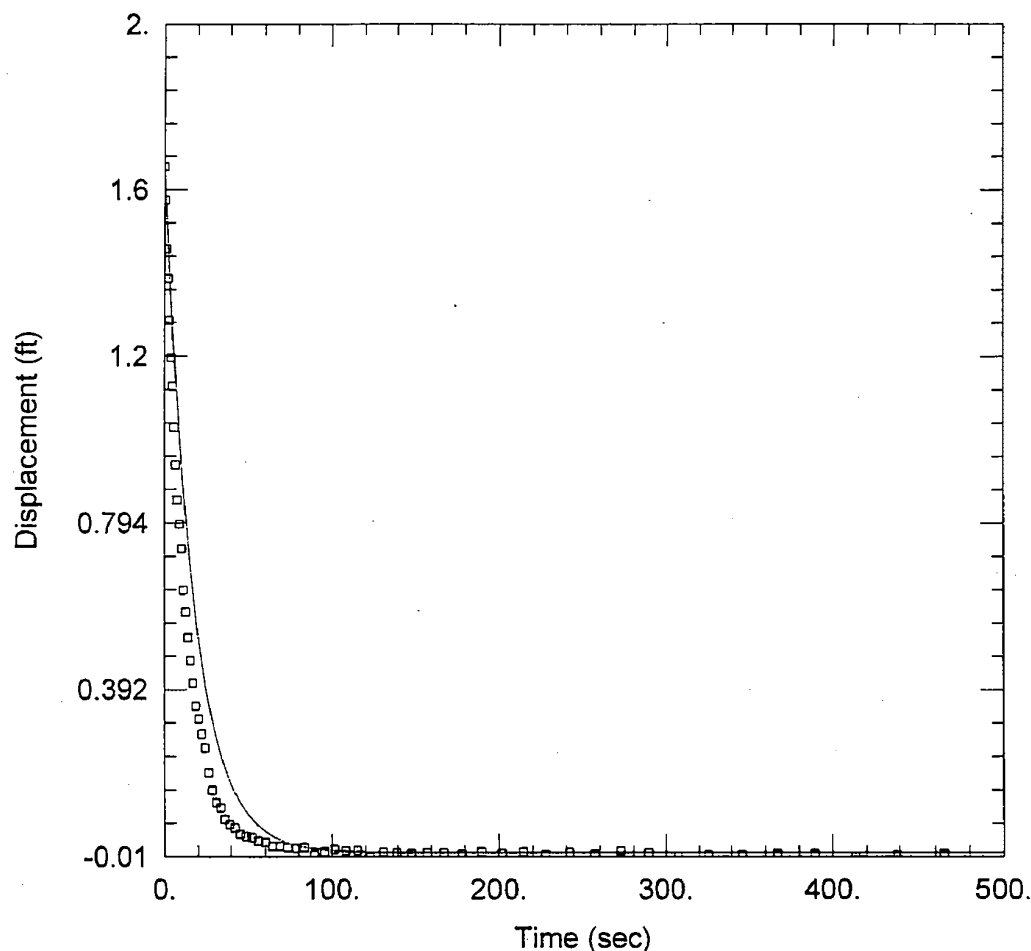
WELL DATA (OW-07 L)

Initial Displacement: 1.654 ft Static Water Column Height: 68.1 ft
 Total Well Penetration Depth: 123. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

$K = 12.09 \text{ ft/day}$ $y_0 = 1.493 \text{ ft}$

OW-07 L RISING HEAD TESTPROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-07 L
Test Date: 1/20/07

AQUIFER DATASaturated Thickness: 7. ftAnisotropy Ratio (K_z/K_r): 1.WELL DATA (OW-07 L)

Initial Displacement: 1.654 ft
Total Well Penetration Depth: 123. ft
Casing Radius: 0.083 ft

Static Water Column Height: 68.1 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
 $K =$ 13.05 ft/day

Solution Method: Butler
 $Le =$ 0.1 ft



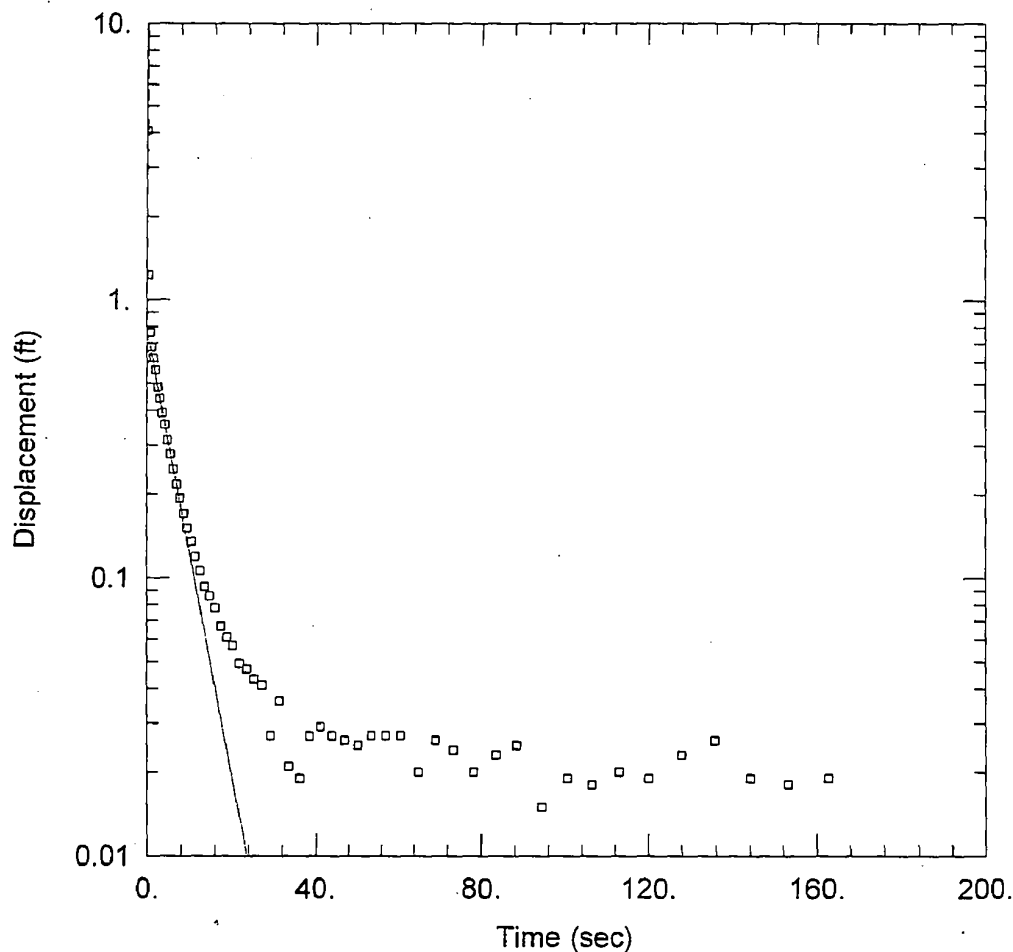
SLUG TEST REPORT

6468 WSE-5-11-08

Project Name: Exelon COL		Project Number: 6468-07-1777		Page 1 of 1	OW-07U
Client: Bechtel		Contractor: MACTEC			
Location: Victoria		MACTEC Rep: Jeff Moore		Date: 1/26/08	
UNITS					
Length		Feet			
Time		Minutes			
Well Data					
Static Water Level		58.2 feet			
Total Well Depth		66.13 feet 0.5' of sediment in bottom			
Static Water Column Height (H)		7.93 feet			
		Background	Falling Head	Rising Head	
Observed Initial Displacement (H ₀)		NA	~ 5'	~ 4'	
Saturated Thickness (b)		feet			
Conductivity Anisotropy (Kv/Kh)		Assume 1 to 1			
Depth to Top of Well Screen (d)		53 feet			
Length of Well Screen (L)		10 feet			
Radius of Well Casing (rc)		0.083 feet			
Radius of Screen (rw)		0.083 feet			
Radius of Probe (req)					
Radius of Boring (rsk) Skin Effect		0.083 feet			
Probe Serial Number		112335			
Slug Data		Slug #1			
Length		5.5'			
weight					
Diameter		1.625 inches			
Slug Test File		Background	Falling	Rising	
File Name		OW-07U Background	OW-07U Falling Head	OW-07U Rising Head	
Start Time		3:49:09	4:15:25	4:20:13	
End Time		4:04:09	4:19:10	4:23:02	
Notes		Transducer placed 1' off bottom so top of transducer is at 64'. This leaves just enough room for the 5.5' slug.			
		Falling head test not analyzed			
		due to partially unsaturated			
		well screen.			
		WSE			
		5-11-08			
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Rev 0					

Prepared by: CAB Date: 4-4-08

Checked by: BWA Date: 4/4/08



OW-07 U RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-07 U
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-07 L)

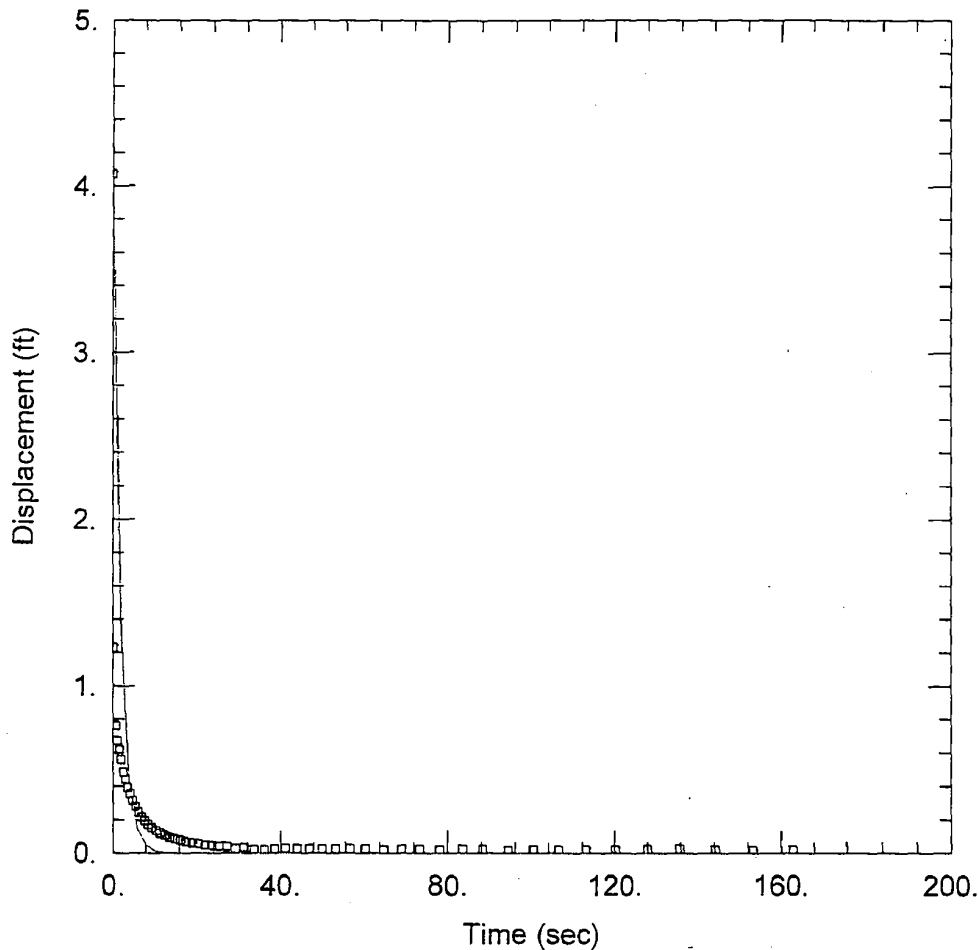
Initial Displacement: 4.073 ft Static Water Column Height: 7.93 ft
 Total Well Penetration Depth: 63. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice
 K = 26.43 ft/day y0 = 0.7733 ft

Prepared by: CRS Date: 4-4-08

Checked by: BWS Date: 4/4/08



OW-07 U RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
Client: BECHTEL
Project: 6468-07-1777
Location: VICTORIA SITE
Test Well: OW-07 U
Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-07 L)

Initial Displacement: 4.073 ft
Total Well Penetration Depth: 63. ft
Casing Radius: 0.083 ft

Static Water Column Height: 7.93 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

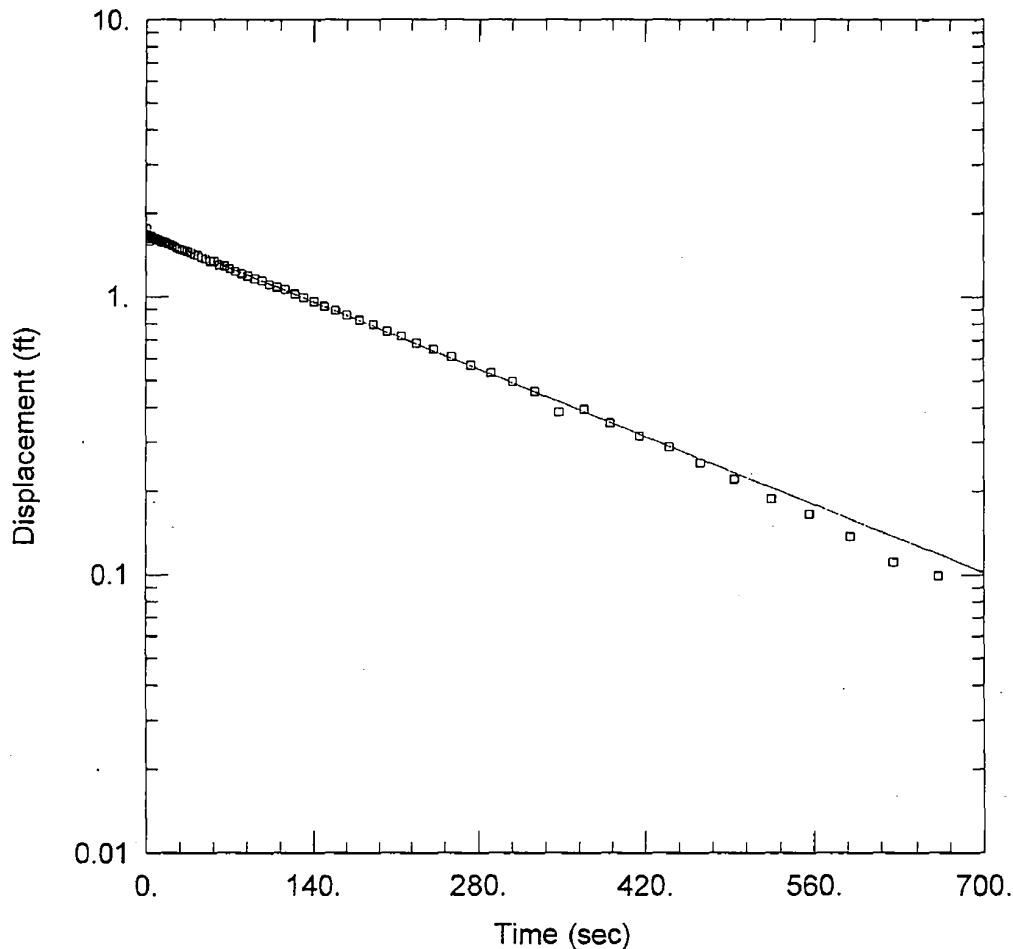
SOLUTION

Aquifer Model: Confined
 $K = 87.14$ ft/day

Solution Method: Butler
 $Le = 0.1$ ft

SLUG TEST REPORT

Project Name: Exelon COL		Project Number: 6469-07-1777		Page 1 of 1		OW-08L	
Client: Bechtel		Contractor: MACTEC					
Location: Victoria		MACTEC Rep: Jeff Moore			Date: 1/21/08		
UNITS							
Length		Feet					
Time		Minutes					
Well Data							
Static Water Level		50.11 feet					
Total Well Depth		135.60 feet Casing Depth reportedly at 138'					
Static Water Column Height (H)		85.49 feet					
		Background		Falling Head		Rising Head	
Observed Initial Displacement (H ₀)		NA		~2.2		~2.5	
Saturated Thickness (b)		feet					
Conductivity Anisotropy (Kv/Kh)		Assume 1 to 1					
Depth to Top of Well Screen (d)		127 feet					
Length of Well Screen (L)		10 feet					
Radius of Well Casing (rc)		0.003 feet					
Radius of Screen (rw)		0.003 feet					
Radius of Probe (req)							
Radius of Boring (rsk) Skin Effect		0.003 feet					
Probe Serial Number		119305					
Slug Data		Double Slug					
Length		11'					
Weight							
Diameter		1.625 inches					
Slug Test File		Background		Falling		Rising	
File Name		OW-08L Background		OW-08L Falling Head		OW-08L Rising Head	
Start Time		9:04:29		9:23:37		9:36:30	
End Time		9:19:29		9:34:44		9:48:24	
Notes		<p>Had some old data points at start of OW-08L Rising Head that should be deleted to make the curve show recovery to static.</p> <p>Mistake to 09 in Data File</p>					
Rev 0							



OW-08 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-08 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-08 L)

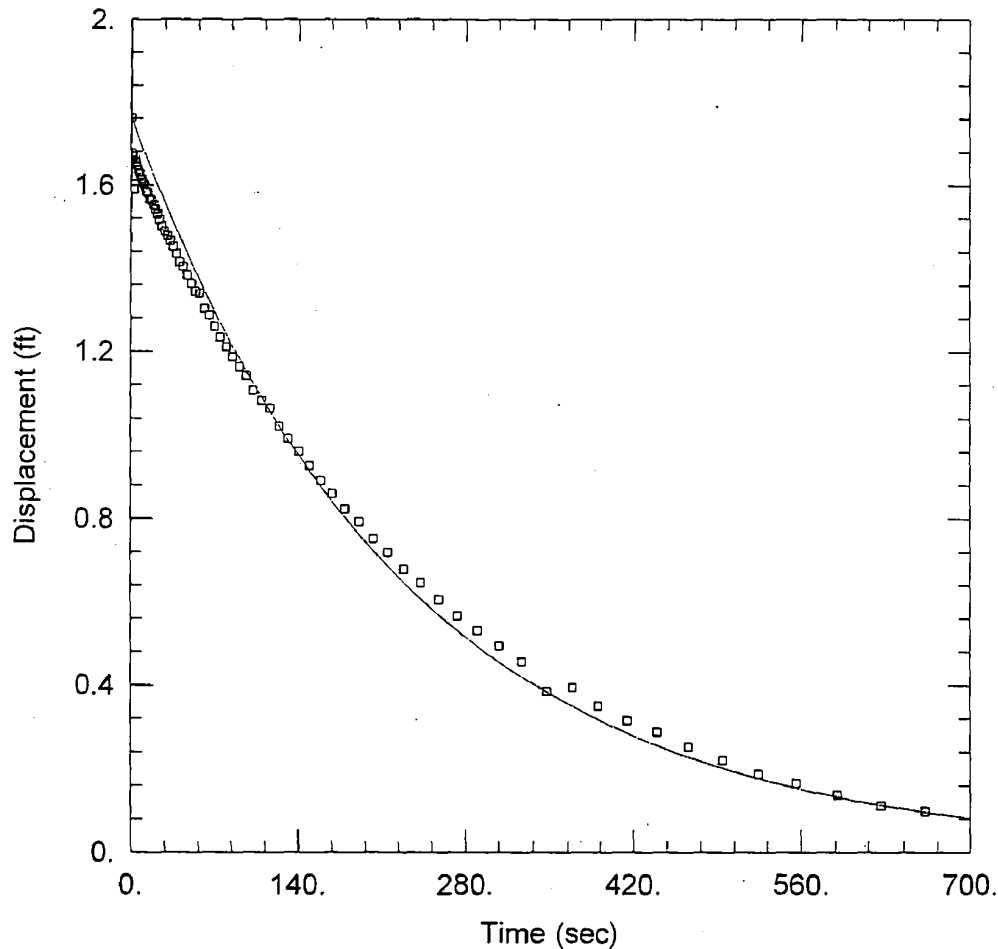
Initial Displacement: 1.761 ft Static Water Column Height: 85.49 ft
 Total Well Penetration Depth: 137. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice
 $K = 0.6275 \text{ ft/day}$ $y_0 = 1.676 \text{ ft}$

Prepared by: CHS Date: 4-4-08

Checked by: BWA Date: 4/4/08



OW-08 L FALLING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-08 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-08 L)

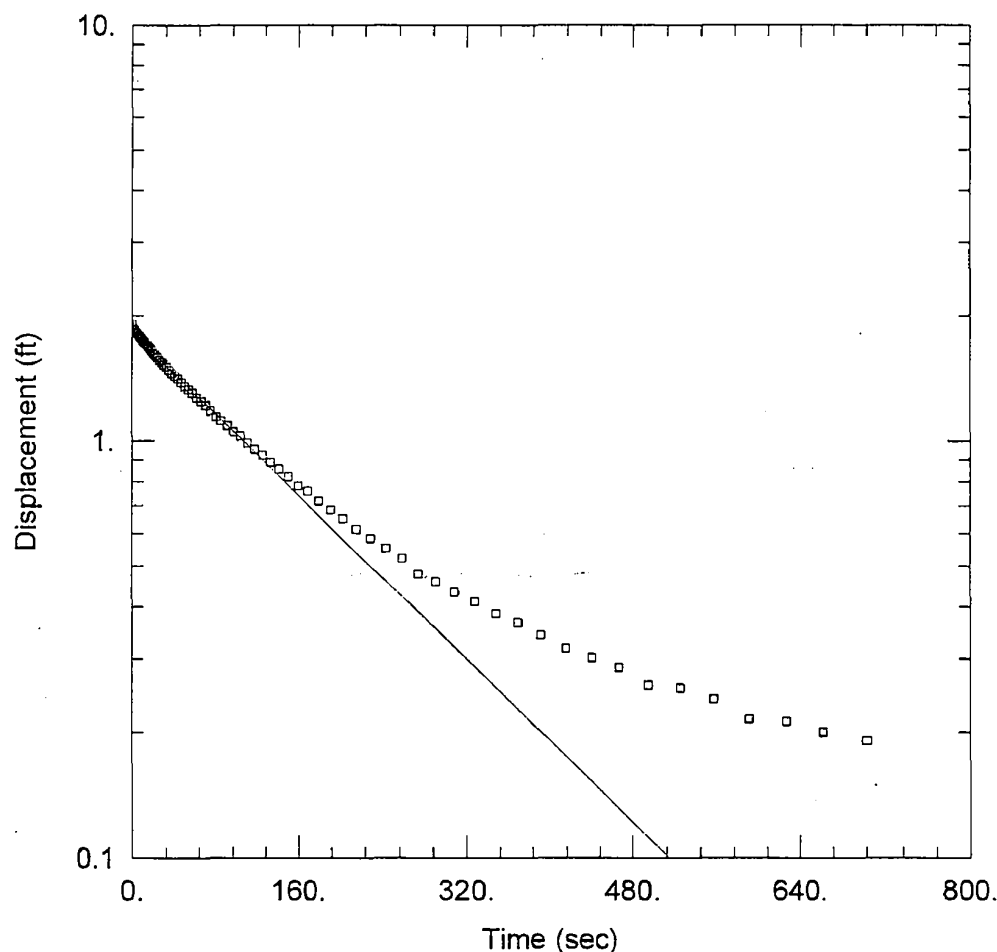
Initial Displacement: 1.761 ft Static Water Column Height: 85.49 ft
 Total Well Penetration Depth: 137. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler
 K = 0.6921 ft/day Le = 0.1 ft

Prepared by: CAB Date: 4-4-08

Checked by: BWA Date: 4/4/08



OW-08 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-08 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-08 L)

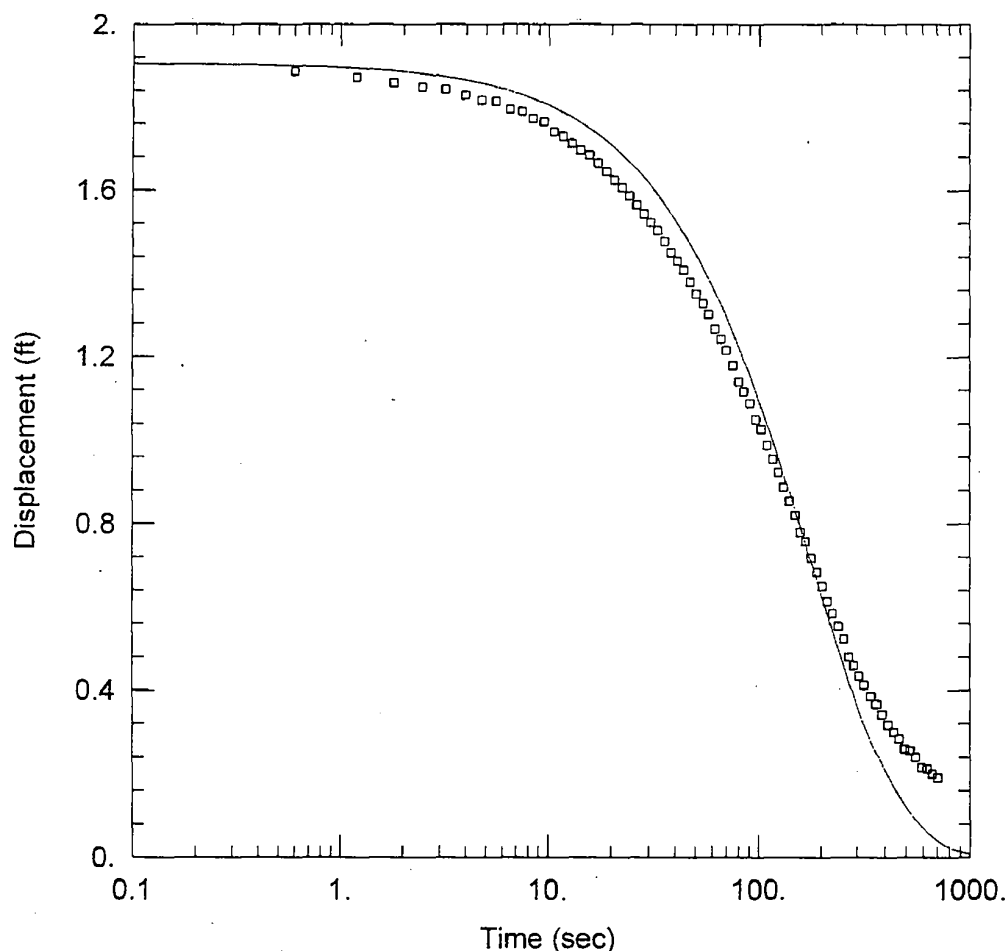
Initial Displacement: 1.906 ft Static Water Column Height: 85.49 ft
 Total Well Penetration Depth: 137. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice
 $K = 0.8849 \text{ ft/day}$ $y_0 = 1.821 \text{ ft}$

Prepared by: CHB Date: 4-4-08

Checked by: BWJ Date: 4/4/08



OW-08 L RISING HEAD TEST

PROJECT INFORMATION

Company: EXELON
 Client: BECHTEL
 Project: 6468-07-1777
 Location: VICTORIA SITE
 Test Well: OW-08 L
 Test Date: 1/20/07

AQUIFER DATA

Saturated Thickness: 10. ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (OW-08 L)

Initial Displacement: 1.906 ft Static Water Column Height: 85.49 ft
 Total Well Penetration Depth: 137. ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler
 $K = 0.8694$ ft/day $L_e = 0.1$ ft