

Appendix B

Monitoring Well Logs



GEI Consultants, Inc.
 455 Winding Brook Dr
 Glastonbury, CT 06033

CLIENT: **KEYSPAN**
 PROJECT NAME: **Brightwaters Former MGP**
 CITY/STATE: **Bay Shore, NY**
 GEI PROJECT NUMBER: **061140-10-1902**

BORING LOG
 PAGE 1 of 1
OU2MW-01D

GROUND SURFACE ELEVATION (FT): 13.4 LOCATION: OU2
 NORTHING: 180369.95 EASTING: 2206747.91 TOTAL DEPTH (FT): 72.40
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.:
 LOGGED BY: Jeff Parillo DATE START / END: 5/16/2005 - 5/16/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT):

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 72 - Total Well Depth	
5					Interval Construction Material	
10					0 - 65' 2 inch, PVC riser, schedule 40, FJT	
15					65 - 70' 10 slot, PVC well screen, schedule 40, FJT	
20					70 - 72' 2 inch, PVC sump, schedule 40, FJT	
25					72 - 63' #0 Silica sand	
30					63 - 61' Bentonite pellet seal	
35					61 - 0' Grout - cement/bentonite mixture	
40						
45						
50						
55						
60						
65						
70						

Bottom of borehole at 72.4 feet.

NOTES:
 PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO = CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 HEADSPACE) ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR



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BORING LOG
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OU2MW-01I

GROUND SURFACE ELEVATION (FT): 13.52 **LOCATION:** OU2
NORTHING: 180373.24 **EASTING:** 2206745.69 **TOTAL DEPTH (FT):** 42.40
DRILLED BY: Fenely & Nicol / Charles Guzzardo **DATUM VERT. / HORZ.:**
LOGGED BY: Jeff Parillo **DATE START / END:** 5/16/2005 - 5/16/2005
DRILLING DETAILS: Hollow Stem Auger
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0				0 - 42 - Total Well Depth		
5				Interval	Construction Material	
10				0 - 35'	2 inch, PVC riser, schedule 40, FJT	
				35 - 40'	10 slot, PVC well screen, schedule 40, FJT	
				40 - 42'	2 inch, PVC sump, schedule 40, FJT	
				42 - 33'	#0 Silica sand	
				33 - 31'	Bentonite pellet seal	
				31 - 0'	Grout - cement/bentonite mixture	
40						

Bottom of borehole at 42.4 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR



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BORING LOG
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OU2MW-0112

GROUND SURFACE ELEVATION (FT): 13.33 LOCATION: OU2
 NORTHING: 180366.7 EASTING: 2206744.69 TOTAL DEPTH (FT): 57.20
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 5/13/2005 - 5/13/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

ENVIRONMENTAL BORING LOG - BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 57 - Total Well Depth	
5					Interval Construction Material	
10					0 - 50' 2 inch, PVC riser, schedule 40, FJT	
15					50 - 55' 10 slot, PVC well screen, schedule 40, FJT	
20					55 - 57' 2 inch, PVC sump, schedule 40, FJT	
25					57 - 48' #0 Silica sand	
30					48 - 46' Bentonite pellet seal	
35					46 - 0' Grout - cement/bentonite mixture	
40						
45						
50						
55						

Bottom of borehole at 57.2 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
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BORING LOG
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OU2MW-01S

GROUND SURFACE ELEVATION (FT): 13.45 LOCATION: OU2
 NORTHING: 180370.37 EASTING: 2206742.36 TOTAL DEPTH (FT): 27.00
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.:
 LOGGED BY: Jeff Parillo DATE START / END: 5/12/2005 - 5/12/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): ▼ 9.83

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 27 - Total Well Depth	
5				Interval	Construction Material	
10				0 - 20'	2 inch, PVC riser, schedule 40, FJT	
15				20 - 25'	10 slot, PVC well screen, schedule 40, FJT	
20				25 - 27'	2 inch, PVC sump, schedule 40, FJT	
25				27 - 18'	#0 Silica sand	
				18 - 16'	Bentonite pellet seal	
				16 - 0'	Grout - cement/bentonite mixture	

Bottom of borehole at 27.0 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

NOTES:

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 IN. = INCHES
 FT. = FEET

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 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
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BORING LOG

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OU2MW-02I

GROUND SURFACE ELEVATION (FT): 12.63 LOCATION: OU2
NORTHING: 180295.36 EASTING: 2206645.95 TOTAL DEPTH (FT): 42.40
DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
LOGGED BY: Jeff Parillo DATE START / END: 5/18/2005 - 5/18/2005
DRILLING DETAILS: Hollow Stem Auger
WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 42 - Total Well Depth	
5					Interval Construction Material	
10					0 - 35' 2 inch, PVC riser, schedule 40, FJT	
15					35 - 40' 10 slot, PVC well screen, schedule 40, FJT	
20					40 - 42' 2 inch, PVC sump, schedule 40, FJT	
25					42 - 33' #0 Silica sand	
30					33 - 31' Bentonite pellet seal	
35					31 - 0' Grout - cement/bentonite mixture	
40						

Bottom of borehole at 42.4 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
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CrLO = CREOSOTE LIKE ODOR
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BORING LOG
OU2MW-0212
PAGE 1 of 1

GROUND SURFACE ELEVATION (FT): 12.77 LOCATION: OU2
NORTHING: 180290.24 EASTING: 2206645.3 TOTAL DEPTH (FT): 57.40
DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.:
LOGGED BY: Jeff Parillo DATE START / END: 5/17/2005 - 5/17/2005
DRILLING DETAILS: Hollow Stem Auger
WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 57 - Total Well Depth	
5					Interval Construction Material	
10					0 - 50' 2 inch, PVC riser, schedule 40, FJT	
					50 - 55' 10 slot, PVC well screen, schedule 40, FJT	
					55 - 57' 2 inch, PVC sump, schedule 40, FJT	
					57 - 48' #0 Silica sand	
					48 - 46' Bentonite pellet seal	
					46 - 0' Grout - cement/bentonite mixture	
55						

Bottom of borehole at 57.4 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL	ppm = PARTS PER MILLION	NLO = NAPHTHALENE LIKE ODOR	CrLO = CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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BORING LOG

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OU2MW-02S

GROUND SURFACE ELEVATION (FT): 12.61 LOCATION: OU2
 NORTHING: 180293.08 EASTING: 2206643.03 TOTAL DEPTH (FT): 27.40
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 5/13/2005 - 5/13/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 27 - Total Well Depth	
5					Interval Construction Material	
10					0 - 20' 2 inch, PVC riser, schedule 40, FJT	
15					20 - 25' 10 slot, PVC well screen, schedule 40, FJT	
20					25 - 27' 2 inch, PVC sump, schedule 40, FJT	
25					27 - 18' #0 Silica sand	
					18 - 16' Bentonite pellet seal	
					16 - 0' Grout - cement/bentonite mixture	

Bottom of borehole at 27.4 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL	ppm = PARTS PER MILLION	NLO = NAPHTHALENE LIKE ODOR	CrLO = CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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BORING LOG

OU2MW-03I

GROUND SURFACE ELEVATION (FT): 12.27 LOCATION: OU2
 NORTHING: 180197.18 EASTING: 2206545.28 TOTAL DEPTH (FT): 42.40
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 5/17/2005 - 5/17/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0				0 - 42 - Total Well Depth		
5				Interval	Construction Material	
				0 - 35'	2 inch, PVC riser, schedule 40, FJT	
10				35 - 40'	10 slot, PVC well screen, schedule 40, FJT	
				40 - 42'	2 inch, PVC sump, schedule 40, FJT	
15				42 - 33'	#0 Silica sand	
20				33 - 31'	Bentonite pellet seal	
				31 - 0'	Grout - cement/bentonite mixture	
25						
30						
35						
40						

Bottom of borehole at 42.4 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
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BORING LOG
PAGE 1 of 1
OU2MW-0312

GROUND SURFACE ELEVATION (FT): 12.3 LOCATION: OU2
NORTHING: 180096.97 EASTING: 2206974.86 TOTAL DEPTH (FT): 57.40
DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
LOGGED BY: Jeff Parillo DATE START / END: 5/18/2005 - 5/18/2005
DRILLING DETAILS: Hollow Stem Auger
WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 57 - Total Well Depth	
5					Interval Construction Material	
10					0 - 50' 2 inch, PVC riser, schedule 40, FJT	
15					50 - 55' 10 slot, PVC well screen, schedule 40, FJT	
20					55 - 57" 2 inch, PVC sump, schedule 40, FJT	
25					57 - 48' #0 Silica sand	
30					48 - 46' Bentonite pellet seal	
35					46 - 0' Grout - cement/bentonite mixture	
40						
45						
50						
55						

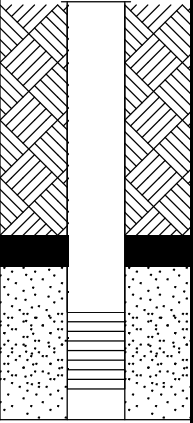
Bottom of borehole at 57.4 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

NOTES:

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 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 HEADSPACE) ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR

GROUND SURFACE ELEVATION (FT): 12.39 LOCATION: OU2
 NORTHING: 180194.31 EASTING: 2206542.16 TOTAL DEPTH (FT): 27.20
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 5/12/2005 - 5/12/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO				STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.				
0						0 - 27 - Total Well Depth	
5						Interval Construction Material	
10						0 - 20' 2 inch, PVC riser, schedule 40, FJT	
15						20 - 25' 10 slot, PVC well screen, schedule 40, FJT	
20						25 - 27' 2 inch, PVC sump, schedule 40, FJT	
25						27 - 18' #0 Silica sand	
						18 - 16' Bentonite pellet seal	
						16 - 0' Grout - cement/bentonite mixture	
						Bottom of borehole at 27.2 feet.	

NOTES:

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		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06



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BORING LOG

OU2MW-04D

GROUND SURFACE ELEVATION (FT): 11.21 LOCATION: OU2
 NORTHING: 180006.18 EASTING: 2206903.79 TOTAL DEPTH (FT): 68.40
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 5/19/2005 - 5/19/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 68 - Total Well Depth	
5				Interval	Construction Material	
				0 - 61'	2 inch, PVC riser, schedule 40, FJT	
10				61 - 66'	10 slot, PVC well screen, schedule 40, FJT	
				66 - 68'	2 inch, PVC sump, schedule 40, FJT	
15				68 - 59'	#0 Silica sand	
20				59 - 57'	Bentonite pellet seal	
				57 - 0'	Grout - cement/bentonite mixture	
25						
30						
35						
40						
45						
50						
55						
60						
65						

Bottom of borehole at 68.4 feet.

NOTES:

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 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
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CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
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BORING LOG

OU2MW-04I

GROUND SURFACE ELEVATION (FT): 11.23 LOCATION: OU2
 NORthing: 180008.8 EASTING: 2206901.22 TOTAL DEPTH (FT): 42.40
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.:
 LOGGED BY: Jeff Parillo DATE START / END: 5/17/2005 - 5/17/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 42 - Total Well Depth	
5					Interval Construction Material	
10					0 - 35' 2 inch, PVC riser, schedule 40, FJT 35 - 40' 10 slot, PVC well screen, schedule 40, FJT 40 - 42' 2 inch, PVC sump, schedule 40, FJT	
15					42 - 33' #0 Silica sand	
20					33 - 31' Bentonite pellet seal	
25					31 - 0' Grout - cement/bentonite mixture	
30						
35						
40						

Bottom of borehole at 42.4 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
 MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06



GEI Consultants, Inc.
455 Winding Brook Dr
Glastonbury, CT 06033

CLIENT: **KEYSPAN**
PROJECT NAME: **Brightwaters Former MGP**
CITY/STATE: **Bay Shore, NY**
GEI PROJECT NUMBER: **061140-10-1902**

BORING LOG

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OU2MW-04S

GROUND SURFACE ELEVATION (FT): 11.3 LOCATION: OU2
 NORTHING: 180006.16 EASTING: 2206898.94 TOTAL DEPTH (FT): 27.80
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.:
 LOGGED BY: Jeff Parillo DATE START / END: 5/11/2005 - 5/11/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 27 - Total Well Depth	
5				Interval	Construction Material	
				0 - 20'	2 inch, PVC riser, schedule 40, FJT	
10				20 - 25'	10 slot, PVC well screen, schedule 40, FJT	
				25 - 27'	2 inch, PVC sump, schedule 40, FJT	
15				27 - 18'	#0 Silica sand	
				18 - 16'	Bentonite pellet seal	
20				16 - 0'	Grout - cement/bentonite mixture	
25						

Bottom of borehole at 27.8 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 T-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
 MLO = MUSTY LIKE ODOR



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BORING LOG

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OU2MW-07

GROUND SURFACE ELEVATION (FT): 6.5 LOCATION: OU2
 NORTHING: 179268.9 EASTING: 2207074.05 TOTAL DEPTH (FT): 27.00
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 5/23/2005 - 5/23/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0				0 - 27 - Total Well Depth		
5				Interval	Construction Material	
				0 - 15'	2 inch, PVC riser, schedule 40, FJT	
				15 - 25'	10 slot, PVC well screen, schedule 40, FJT	
				25 - 27'	2 inch, PVC sump, schedule 40, FJT	
				27 - 13'	#0 Silica sand	
				13 - 11'	Bentonite pellet seal	
				11 - 0'	Grout - cement/bentonite mixture	

Bottom of borehole at 27.0 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

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 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
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BORING LOG
OU2MW-08D

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GROUND SURFACE ELEVATION (FT): 16 LOCATION: OU2
 NORTHING: 180450.99 EASTING: 2206678.34 TOTAL DEPTH (FT): 70.00
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 8/30/2005 - 8/30/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 70 - Total Well Depth	
5					Interval	Construction Material
10					0 - 63'	2 inch, PVC riser, schedule 40, FJT
					63 - 68'	10 slot, PVC well screen, schedule 40, FJT
					68-70'	2 inch, PVC sump, schedule 40, FJT
					70 - 61'	#0 Silica sand
					61 - 59'	Bentonite pellet seal
					59 - 0'	Grout - cement/bentonite mixture

Bottom of borehole at 70.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO = CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 ALO = ASPHALT LIKE ODOR

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06



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BORING LOG	
PAGE 1 of 1	OU2MW-08I

GROUND SURFACE ELEVATION (FT): 15.8 LOCATION: OU2
 NORTHING: 180455.76 EASTING: 2206684 TOTAL DEPTH (FT): 47.00
 DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
 LOGGED BY: Jeff Parillo DATE START / END: 8/31/2005 - 8/31/2005
 DRILLING DETAILS: Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 47 - Total Well Depth	
5				Interval	Construction Material	
10				0 - 40'	2 inch, PVC riser, schedule 40, FJT	
				40 - 45'	10 slot, PVC well screen, schedule 40, FJT	
				45 - 47'	2 inch, PVC sump, schedule 40, FJT	
				47 - 38'	#0 Silica sand	
				38 - 36'	Bentonite pellet seal	
				36 - 0'	Grout - cement/bentonite mixture	

Bottom of borehole at 47.0 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

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REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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BORING LOG
OU2MW-0812
PAGE 1 of 1

GROUND SURFACE ELEVATION (FT): 15.9 LOCATION: OU2
NORTHING: 180454.45 EASTING: 2206682.67 TOTAL DEPTH (FT): 57.00
DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.: _____
LOGGED BY: Jeff Parillo DATE START / END: 9/1/2005 - 9/1/2005
DRILLING DETAILS: Hollow Stem Auger
WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 57 - Total Well Depth	
5					Interval Construction Material	
10					0 - 50' 2 inch, PVC riser, schedule 40, FJT	
15					50 - 55' 10 slot, PVC well screen, schedule 40, FJT	
20					55 - 57' 2 inch, PVC sump, schedule 40, FJT	
25					57 - 48' #0 Silica sand	
30					48 - 46' Bentonite pellet seal	
35					46 - 0' Grout - cement/bentonite mixture	
40						
45						
50						
55						

Bottom of borehole at 57.0 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

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REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
HEADSPACE) ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR



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BORING LOG
PAGE 1 of 1
OU2MW-09S

GROUND SURFACE ELEVATION (FT): 13.1 LOCATION: OU2
NORTHING: 180191.87 EASTING: 2206539.54 TOTAL DEPTH (FT): 30.40
DRILLED BY: Fenely & Nicol / Charles Guzzardo DATUM VERT. / HORZ.:
LOGGED BY: Jeff Parillo DATE START / END: 5/13/2005 - 5/13/2005
DRILLING DETAILS: Hollow Stem Auger
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC FT.			
0					0 - 30 - Total Well Depth	
5					Interval Construction Material	
10					0 - 20' 2 inch, PVC riser, schedule 40, FJT	
15					20 - 30' 10 slot, PVC well screen, schedule 40, FJT	
20					30 - 18' #0 Silica sand	
25					18 - 16' Bentonite pellet seal	
30					16 - 0' Grout - cement/bentonite mixture	

Bottom of borehole at 30.4 feet.

ENVIRONMENTAL BORING LOG BAY SHORE BRIGHTWATERS FORMER MGP OU-2 7-20-06.GPJ GEI CONSULTANTS.GDT 8/10/06

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REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	