



GEI Consultants, Inc.
 455 Winding Brook Drive
 Glastonbury, CT 06033
 (860) 368-5300

CLIENT: National Grid
 PROJECT: Williamsburg Works
 CITY/STATE: Brooklyn, NY
 GEI PROJECT NUMBER: 093060-1-1108

TEST PIT LOG
 PAGE 1 of 2
 WW-TP-01

GROUND SURFACE ELEVATION (FT): 12.05 LOCATION: 50 Kent Avenue
 NORTHING: 688836.04 EASTING: 641985.5 TOTAL LENGTH: ~14.3 ft
 OBSERVED BY: Maura MacLeod TOTAL WIDTH: ~2.8 ft
 CHECKED BY: Amy Malsbary TOTAL DEPTH: ~3.0 ft
 EQUIPMENT: Backhoe DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
 WEATHER: Overcast, 55 F DATE START / END: 10/29/2009

DEPTH (ft)	PID (ppm)	ANALYZED SAMPLE ID	SOIL DESCRIPTION
1			(0' - 0.3') ASPHALT (0.3'-1') CONCRETE
2	17.3	WW-TP-01 (2-2.5)	(1'-1.7') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand fine to coarse, ~30% gravel, fine to coarse, ~5% fines, non plastic; max. size 3 in., dry, brown, brick, and concrete fragments. (1.7'-3') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand fine to coarse, ~30% gravel, fine to coarse, ~5% fines, non plastic; max. size 3 in., slight naphthalene-like odor, wet, brown, brick, and concrete fragments.
3			Bottom of test pit at 3.0 ft. Water level encountered inside the holder only.
4			
5			

NOTES:

▽ Water level depth
 PID = Photoionization Detector Reading (jar headspace)
 ppm = parts per million
 ft = feet
 Survey data was collected from each end of the test pit, the point within the holder footprint is listed.
 Ground surface elevation is estimated.



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PAGE 2 of 2
WW-TP-01

GROUND SURFACE ELEVATION (FT):	<u>12.05</u>	LOCATION:	<u>50 Kent Avenue</u>
NORTHING:	<u>688836.04</u>	EASTING:	<u>641985.5</u>
OBSERVED BY:	<u>Maura MacLeod</u>	TOTAL DEPTH:	<u>~14.3 ft</u>
CHECKED BY:	<u>Amy Malsbary</u>	TOTAL LENGTH:	<u>~2.8 ft</u>
EQUIPMENT:	<u>Backhoe</u>	TOTAL WIDTH:	<u>~3.0 ft</u>
WEATHER:	<u>Overcast, 55 F</u>	DATUM VERT. / HORZ.:	<u>NAVD 88 / NAD83 NY East Zone</u>
		DATE START / END	<u>10/29/2009</u>

PHOTOGRAPH

Photo 1: Facing West



Soil Sample
WW-TP-01 (2-2.5)

Brick holder wall
~2.1 ft thick
~4.8 ft from W test pit edge

NOTES:

∇ Water level depth

PID = Photoionization Detector Reading (jar headspace)

ppm = parts per million

ft = feet

Survey data was collected from each end of the test pit, the point within the holder footprint is listed.

Ground surface elevation is estimated.



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TEST PIT LOG
PAGE **1 of 2**
WW-TP-02

GROUND SURFACE ELEVATION (FT): 11.95 LOCATION: 50 Kent Avenue
NORTHING: 688797.55 EASTING: 641962.36 TOTAL LENGTH: ~16.3 ft
OBSERVED BY: Maura MacLeod TOTAL WIDTH: ~2.6 ft
CHECKED BY: Amy Malsbary TOTAL DEPTH: ~3.0 ft
EQUIPMENT: Backhoe DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
WEATHER: Overcast, 55 F DATE START / END: 10/29/2009

DEPTH FT.	PID (ppm)	ANALYZED SAMPLE ID	SOIL DESCRIPTION
<u>1</u>			(0' - 0.3') ASPHALT (0.3'-1') CONCRETE
<u>2</u>			(1'-1.8') WIDELY GRADED GRAVEL WITH SAND (GW); ~70% gravel, fine to coarse, ~25% sand, fine to coarse, ~5% fines, non plastic; max. size 3 in., moist, brown, brick, and concrete fragments.
<u>3</u>	<u>1.9</u>	<u>WW-TP-02 (2-2.5)</u>	(1.8'-3') WIDELY GRADED GRAVEL WITH SAND (GW); ~70% gravel, fine to coarse, ~25% sand, fine to coarse, ~5% fines, non plastic; max. size 3 in., slight naphthalene-like odor, wet, brown, brick, and concrete fragments.
			Bottom of test pit at 3.0 feet.
<u>4</u>			
<u>5</u>			

NOTES:
 ▽ Water level depth
 PID = Photoionization Detector Reading (jar headspace)
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 ft = feet
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TEST PIT LOG
PAGE 2 of 2
WW-TP-02

GROUND SURFACE ELEVATION (FT):	<u>11.95</u>	LOCATION:	<u>50 Kent Avenue</u>
NORTHING:	<u>688797.55</u>	EASTING:	<u>641962.36</u>
OBSERVED BY:	<u>Maura MacLeod</u>	TOTAL DEPTH:	<u>~16.3 ft</u>
CHECKED BY:	<u>Amy Malsbary</u>	TOTAL LENGTH:	<u>~2.6 ft</u>
EQUIPMENT:	<u>Backhoe</u>	TOTAL WIDTH:	<u>~3.0 ft</u>
WEATHER:	<u>Overcast, 55 F</u>	DATUM VERT. / HORZ.:	<u>NAVD 88 / NAD83 NY East Zone</u>
		DATE START / END	<u>10/29/2009</u>

PHOTOGRAPH

Photo 1: Facing Southwest



Soil Sample
WW-TP-02 (2-2.5)
location

Metal fragment
~7.8 ft from N test pit edge
~1.4 ft from ground surface



Photo 2: Facing East

NOTES:

∇ Water level depth

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TEST PIT LOG
PAGE **1 of 2**
WW-TP-03

GROUND SURFACE ELEVATION (FT): 12.89 LOCATION: 50 Kent Avenue
NORTHING: 688752.13 EASTING: 641918.12 TOTAL LENGTH: ~20.1 ft
OBSERVED BY: Maura MacLeod TOTAL WIDTH: ~2.8 ft
CHECKED BY: Amy Malsbary TOTAL DEPTH: ~4.0 ft
EQUIPMENT: Backhoe DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
WEATHER: Overcast, 55 F DATE START / END: 10/29/2009

DEPTH FT.	PID (ppm)	ANALYZED SAMPLE ID	SOIL DESCRIPTION
<u>1</u>			(0' - 0.3') ASPHALT (0.3'-1') CONCRETE
<u>2</u>			(1'-3.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~35% gravel, fine to coarse, ~5% fines, non plastic; max. size 3 in., slight to moderate naphthalene-like odor, dry, brown, wood, brick, and concrete fragments.
<u>3</u>			
<u>▽</u>	36.7		
<u>4</u>		WW-TP-03 (3.5-4)	(3.5'-4') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~35% gravel, fine to coarse, ~5% fines, non plastic; max. size 3 in., moderate naphthalene-like odor, wet, brown, wood, brick, and concrete fragments, sheen on water surface.
<u>5</u>			Bottom of test pit at 4.0 feet.

NOTES:

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ft = feet
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TEST PIT LOG
PAGE 1 of 2
WW-TP-03

GROUND SURFACE ELEVATION (FT):	<u>12.89</u>	LOCATION:	<u>50 Kent Avenue</u>
NORTHING:	<u>688752.13</u>	EASTING:	<u>641918.12</u>
OBSERVED BY:	<u>Maura MacLeod</u>	TOTAL DEPTH:	<u>~20.1 ft</u>
CHECKED BY:	<u>Amy Malsbary</u>	TOTAL LENGTH:	<u>~2.8 ft</u>
EQUIPMENT:	<u>Backhoe</u>	TOTAL WIDTH:	<u>~4.0 ft</u>
WEATHER:	<u>Overcast, 55 F</u>	DATUM VERT. / HORZ.:	<u>NAVD 88 / NAD83 NY East Zone</u>
		DATE START / END	<u>10/29/2009</u>

PHOTOGRAPH

Photo 1: Facing Southwest



Soil Sample
WW-TP-03 (3.5-4)

Metal fragment 3x3 ft pulled out by excavator
~8.0 ft from SW test pit edge

Collapsed brick layer, likely former holder wall
~8.3 ft thick
~1.3 ft from SW test pit edge
~1.8 ft from ground surface



Photo 2: Facing Northwest

NOTES:

∇ Water level depth

PID = Photoionization Detector Reading (jar headspace)

ppm = parts per million

ft = feet

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TEST PIT LOG
 PAGE 1 of 2
 WW-TP-04

GROUND SURFACE ELEVATION (FT): 13.45 LOCATION: 50 Kent Avenue
 NORTHING: 688715.6 EASTING: 641895.8 TOTAL LENGTH: NR
 OBSERVED BY: Maura MacLeod TOTAL WIDTH: NR
 CHECKED BY: Amy Malsbary TOTAL DEPTH: ~5.0 ft
 EQUIPMENT: Backhoe DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
 WEATHER: Rain, 60 F DATE START / END: 10/26/2009 - 10/27/2009

DEPTH FT.	PID (ppm)	ANALYZED SAMPLE ID	SOIL DESCRIPTION
<u>1</u>			(0' - 0.3') ASPHALT (0.3'-0.7') CONCRETE; gravely concrete.
<u>2</u>			(0.7'-3') WIDELY GRADED SAND WITH GRAVEL (SW); ~50% sand, fine to coarse, ~35% gravel, fine to coarse, ~10% cobbles, ~5% fines, non plastic; max. size 6 in., dry, brown, brick and concrete fragments.
<u>3</u>			
<u>4</u>			(3'-4.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine to coarse, ~5% fines, non plastic; max.size 3 in., dry, brown, brick and concrete fragments.
<u>▽</u>			
<u>5</u>	6.1	WW-TP-04 (4.5-5)	(4.5'-5') WIDELY GRADED GRAVEL WITH SAND (GW); ~60% gravel, fine to coarse ~35% sand, fine to coarse, ~5% fines, non plastic; Max. size 3 in., wet, brown, brick and concrete fragments.
Bottom of test pit at 5.0 feet.			

NOTES:

- ▽ Water level depth
- NR - Not Recorded
- PID = Photoionization Detector Reading (jar headspace)
- ppm = parts per million
- ft = feet
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TEST PIT LOG
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WW-TP-04

GROUND SURFACE ELEVATION (FT):	<u>13.45</u>	LOCATION:	<u>50 Kent Avenue</u>
NORTHING:	<u>688715.6</u>	EASTING:	<u>641895.8</u>
OBSERVED BY:	<u>Maura MacLeod</u>	TOTAL DEPTH:	<u>NR</u>
CHECKED BY:	<u>Amy Malsbary</u>	TOTAL LENGTH:	<u>NR</u>
EQUIPMENT:	<u>Backhoe</u>	TOTAL WIDTH:	<u>~5.0 ft</u>
WEATHER:	<u>Rain, 60 F</u>	DATUM VERT. / HORZ.:	<u>NAVD 88 / NAD83 NY East Zone</u>
		DATE START / END	<u>10/26/2009 - 10/27/2009</u>

PHOTOGRAPH

Photo 1: Facing Southeast



Brick holder wall
~1.7 ft thick

Soil Sample
WW-TP-04 (4.5-5)

NOTES:

∇ Water level depth

NR - Not Recorded

PID = Photoionization Detector Reading (jar headspace)

ppm = parts per million

ft = feet

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WW-TP-05

GROUND SURFACE ELEVATION (FT): 13.55 LOCATION: 50 Kent Avenue
NORTHING: 688713.93 EASTING: 641991.39 TOTAL LENGTH: ~17.3 ft
OBSERVED BY: Maura MacLeod TOTAL WIDTH: ~3.1 ft
CHECKED BY: Amy Malsbary TOTAL DEPTH: ~6.5 ft
EQUIPMENT: Backhoe DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
WEATHER: Rain, 55 F DATE START / END: 10/27/2009 - 10/28/2009

DEPTH FT.	PID (ppm)	ANALYZED SAMPLE ID	SOIL DESCRIPTION
<u>1</u>			(0' - 0.3') ASPHALT (0.3'-1') CONCRETE; gravely concrete.
<u>2</u>			(1'-6') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine to coarse, ~5% fines, non plastic; dry, brown, brick and concrete fragments.
<u>3</u>			
<u>4</u>			
<u>5</u>			
<u>6</u> ▽	188	WW-TP-05 (6-6.5)	(6'-6.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine to coarse, ~5% fines, non plastic; moderate naphthalene-like odor, wet, brown, brick and concrete fragments.
<u>7</u>			Bottom of test pit at 6.5 feet.

NOTES:

▽ Water level depth

PID = Photoionization Detector Reading (jar headspace)

ppm = parts per million

ft = feet

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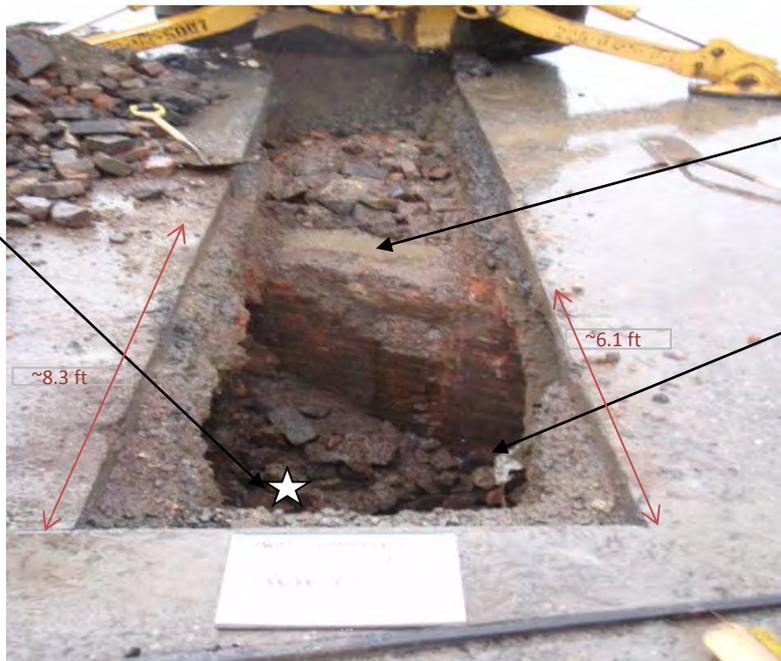
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TEST PIT LOG
PAGE 2 of 2
WW-TP-05

GROUND SURFACE ELEVATION (FT):	<u>13.55</u>	LOCATION:	<u>50 Kent Avenue</u>
NORTHING:	<u>688713.93</u>	EASTING:	<u>641991.39</u>
OBSERVED BY:	<u>Maura MacLeod</u>	TOTAL DEPTH:	<u>~17.3 ft</u>
CHECKED BY:	<u>Amy Malsbary</u>	TOTAL LENGTH:	<u>~3.1 ft</u>
EQUIPMENT:	<u>Backhoe</u>	TOTAL WIDTH:	<u>~6.5 ft</u>
WEATHER:	<u>Rain, 55 F</u>	DATUM VERT. / HORZ.:	<u>NAVD 88 / NAD83 NY East Zone</u>
		DATE START / END	<u>10/27/2009 - 10/28/2009</u>

PHOTOGRAPH

Photo 1: Facing Northeast



Soil Sample
WW-TP-05 (6-6.5)

Brick holder wall
~1.4 ft thick

Metal sheet wall

~8.3 ft

~6.1 ft

NOTES:

▽ Water level depth

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ppm = parts per million

ft = feet

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TEST PIT LOG
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WW-TP-06

GROUND SURFACE ELEVATION (FT):	<u>14.23</u>	LOCATION:	<u>50 Kent Avenue</u>
NORTHING:	<u>688650.06</u>	EASTING:	<u>641975.63</u>
OBSERVED BY:	<u>Maura MacLeod</u>	TOTAL LENGTH:	<u>~14.8 ft</u>
CHECKED BY:	<u>Amy Malsbary</u>	TOTAL WIDTH:	<u>~3.5 ft</u>
EQUIPMENT:	<u>Backhoe</u>	TOTAL DEPTH:	<u>~6.5 ft</u>
WEATHER:	<u>Partly sunny, 50 F</u>	DATUM VERT. / HORZ.:	<u>NAVD 88 / NAD83 NY East Zone</u>
		DATE START / END	<u>10/26/2010</u>

DEPTH FT.	PID (ppm)	ANALYZED SAMPLE ID	SOIL DESCRIPTION
<u>1</u>			(0' - 0.3') ASPHALT (0.3'-1') CONCRETE; gravely concrete.
<u>2</u>			(1'- 3') WIDELY GRADED SAND WITH GRAVEL (SW); ~50% sand, fine to coarse, ~30% gravel, fine to coarse, ~25% cobbles, ~5% fines, non plastic; max. size 6 in., dry, brown, brick and concrete fragments.
<u>3</u>			(3'-5.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine to coarse, ~5% fines, non plastic; max.size 3 in., dry, brown, brick and concrete fragments.
<u>4</u>			
<u>5</u>			
<u>6</u>	0.2	WW-TP-06 (6-6.5)	(5.5'-6.5') WIDELY GRADED GRAVEL WITH SAND (GW); ~60% gravel, fine to coarse ~35% sand, fine to coarse, ~5% fines, non plastic; Max. size 3 in., moist, grayish-white, ash, brick and concrete fragments.
<u>7</u>			Bottom of test pit at 6.5 feet.

NOTES:

PID = Photoionization Detector Reading (jar headspace)

ppm = parts per million

ft = feet

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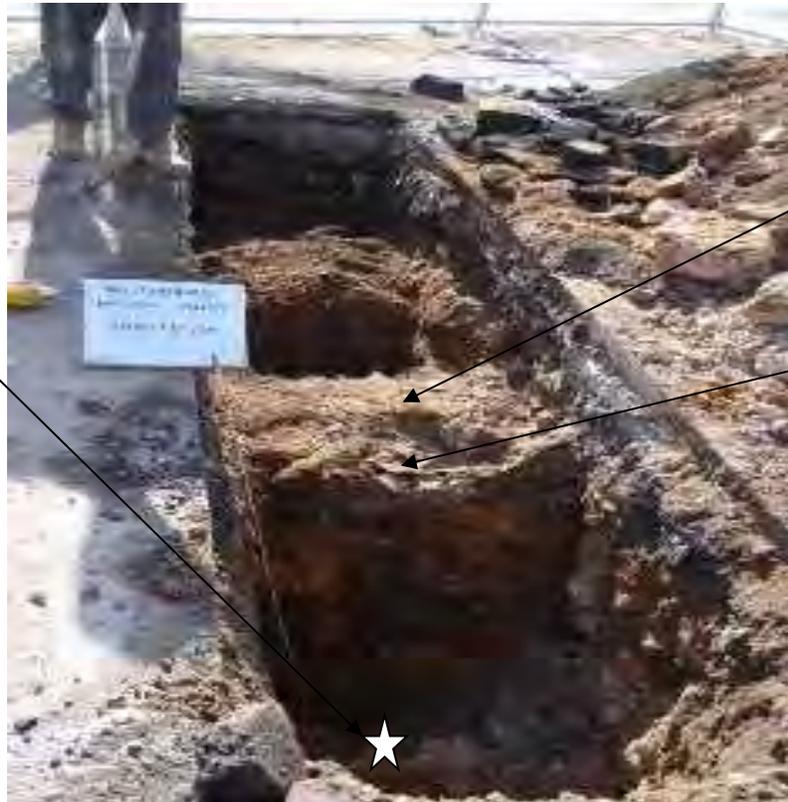
CLIENT: National Grid
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CITY/STATE: Brooklyn, NY
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TEST PIT LOG
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WW-TP-06

GROUND SURFACE ELEVATION (FT):	<u>14.23</u>	LOCATION:	<u>50 Kent Avenue</u>
NORTHING:	<u>688650.06</u>	EASTING:	<u>641975.63</u>
OBSERVED BY:	<u>Maura MacLeod</u>	TOTAL DEPTH:	<u>~14.8 ft</u>
CHECKED BY:	<u>Amy Malsbary</u>	TOTAL LENGTH:	<u>~3.5 ft</u>
EQUIPMENT:		TOTAL WIDTH:	<u>~6.5 ft</u>
WEATHER:	<u>Partly sunny, 50 F</u>	DATUM VERT. / HORZ.:	<u>NAVD 88 / NAD83 NY East Zone</u>
		DATE START / END	<u>10/26/2009</u>

PHOTOGRAPH

Photo 1: Facing Southeast



Soil Sample
WW-TP-06 (6-6.5)
location

Brick holder wall
~1.7 ft thick

Steel holder wall lining
~1.1 ft thick,
~5.8 ft from NW test pit edge

NOTES:

PID = Photoionization Detector Reading (jar headspace)

ppm = parts per million

ft = feet

Survey data was collected from each end of the test pit, the point within the holder footprint is listed.