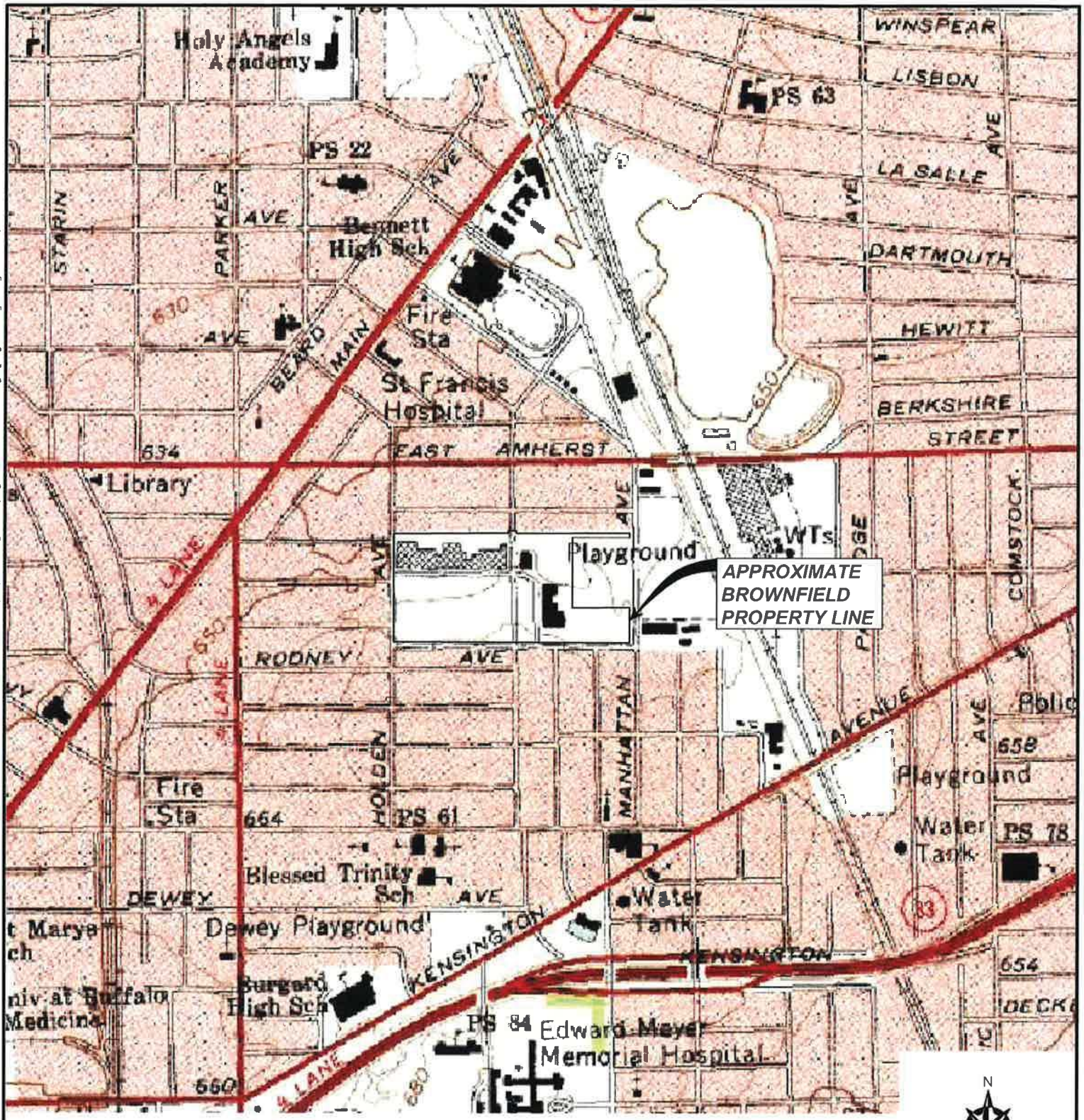
FIGURES



NOTE:
BASE MAP ADAPTED FROM U.S.G.S. TOPOGRAPHIC MAPS DOWNLOADED FROM TERRASERVER.MICROSOFT.COM

0 500 1000 2000
SCALE IN FEET

N W E S

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PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
HIGHLAND PARK VILLAGE, LLC

REMEDIAL ACTION WORK PLAN
129 HOLDEN STREET
BUFFALO, NEW YORK
BROWNFIELD CLEANUP PROGRAM

LOCUS PLAN

FIGURE 1

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN			

© 2014 – GZA GeoEnvironmental of N.Y. GZA-K:\PROJECTS\00000\00042.1 Remedial Investigation – 129 Holden Street\report figures\Figure 1 Locus.dwg [Figure 1] August 05, 2014 – 9:49am Michael.Kress

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 100 200 400

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

SITE PLAN

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
655 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 886-2300

PREPARED FOR:
HIGHLAND PARK VILLAGE, LLC

PROJ MGR: GZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	2
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

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LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

GRID SHOWN IS 1 ACRE INTERVALS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 100 200 400
SCALE IN FEET

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NO.	ISSUE/DESCRIPTION	BY	DATE

129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

SUBSURFACE EXPLORATION LOCATIONS

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	3
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

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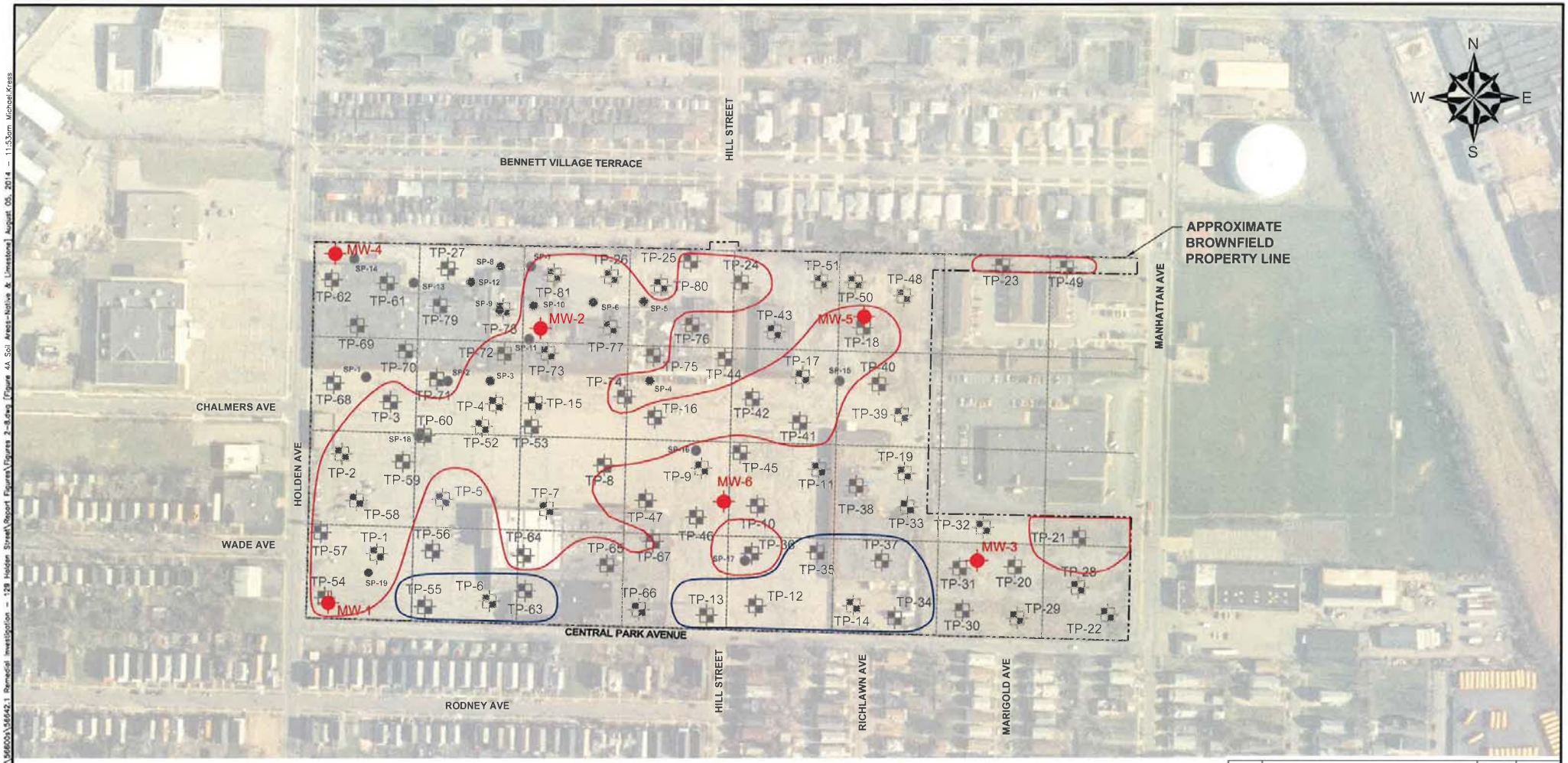

LEGEND:

- TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011
- APPROXIMATE AREA OF FRACTURED LIMESTONE OBSERVED IN EXPLORATIONS
- APPROXIMATE AREA OF NATIVE SILTY CLAY OBSERVED IN EXPLORATIONS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. GRID SHOWN IS 1 ACRE INTERVALS.

0 100 200 400
SCALE IN FEET

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NO.	ISSUE/DESCRIPTION	BY	DATE

129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

SUBSURFACE SOIL AREAS - NATIVE SILTY CLAY AND FRACTURED LIMESTONE FILL

PREPARED BY:
GZA GeoEnvironmental of N.Y. Engineers and Scientists
535 WASHINGTON STREET 11TH FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	4A
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

GZA - K:\PROJECTS\56600s\56642.1 Remedial Investigation - 129 Holden Street\Report Figures\Figures 2-8.dwg [Figure 4A Soil Areas-Native & Limestone] August 05, 2014 - 11:53am Michael.Kress
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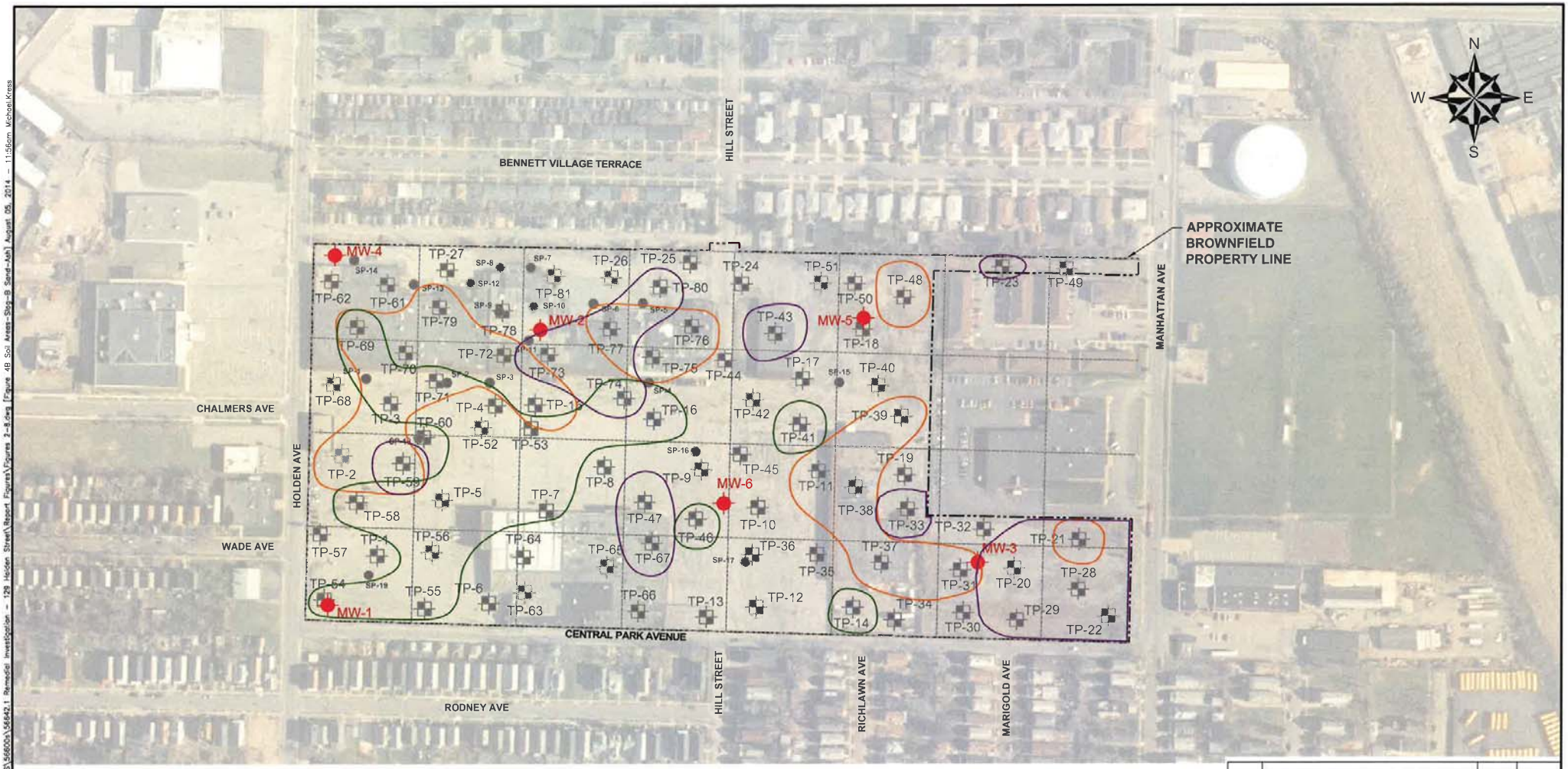

LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

APPROXIMATE AREA OF SLAG MATERIAL OBSERVED IN EXPLORATIONS

APPROXIMATE AREA OF BLACK SAND MATERIAL OBSERVED IN EXPLORATIONS

APPROXIMATE AREA OF ASH MATERIAL OBSERVED IN EXPLORATIONS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. GRID SHOWN IS 1 ACRE INTERVALS.

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

SUBSURFACE SOIL AREAS - SLAG, BLACK SAND & ASH

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	4B
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

GZA-K:\PROJECTS\56800s\56642.1 Remedial Investigation - 129 Holden Street\Report Figures\Figures 2-8.dwg [Figure 4B Soil Areas-Slag-Black Sand-Ash] August 05, 2014 - 11:56am Michael.Kress
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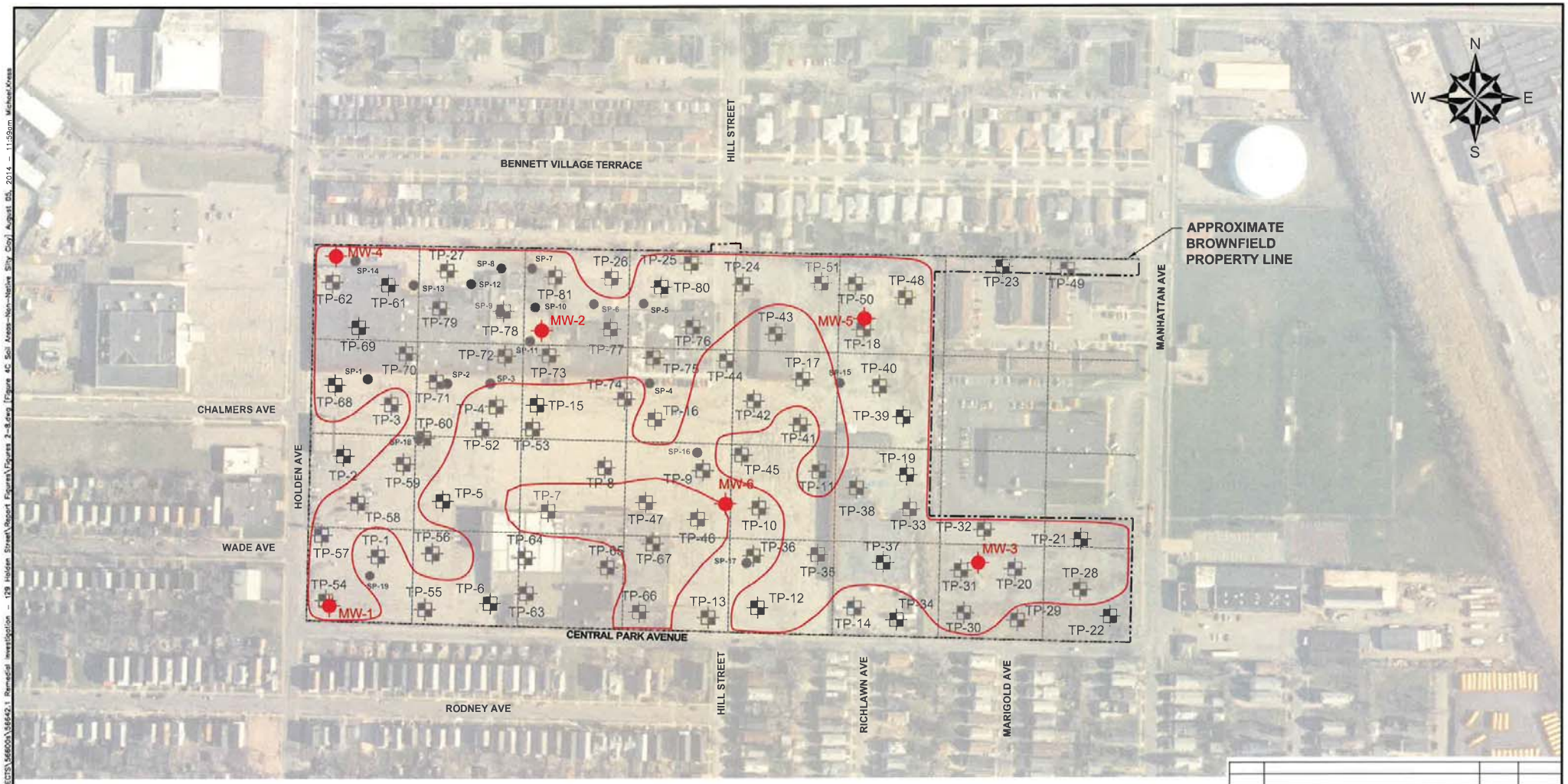

LEGEND:

- TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011
- APPROXIMATE AREA OF NON-NATIVE SILTY CLAY MATERIAL OBSERVED IN EXPLORATIONS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
3. GRID SHOWN IS 1 ACRE INTERVALS.

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT
SUBSURFACE SOIL AREAS - NON-NATIVE SILTY CLAY AND FILL

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	4C
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

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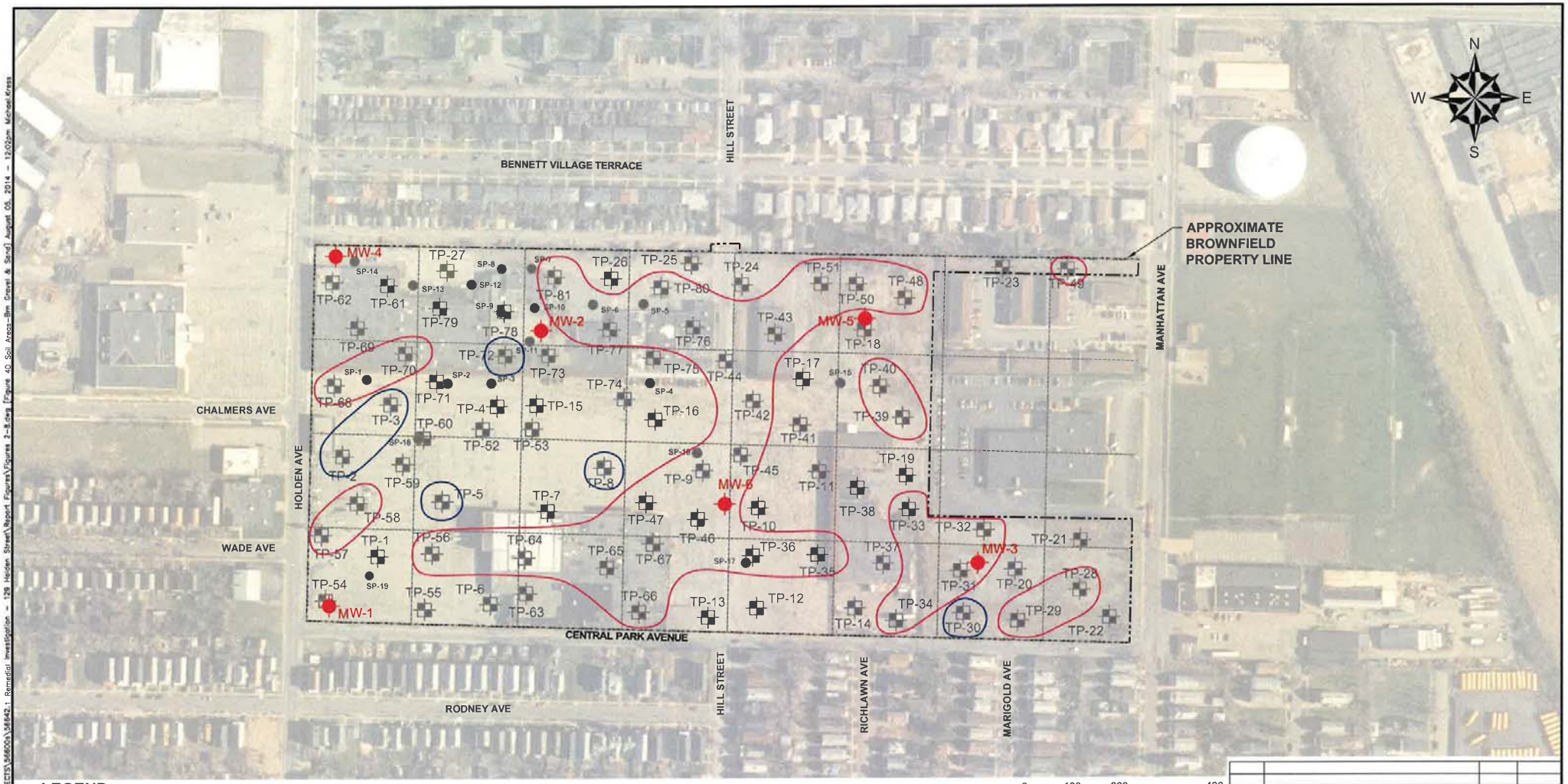

LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

APPROXIMATE AREA OF BROWN GRAVEL AND SAND OBSERVED IN EXPLORATIONS

APPROXIMATE AREA OF DARK BROWN GRAVEL AND SAND OBSERVED IN EXPLORATIONS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. GRID SHOWN IS 1 ACRE INTERVALS.

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

SUBSURFACE SOIL AREAS-BROWN GRAVEL AND SAND

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
HIGHLAND PARK VILLAGE, LLC

PROJ. MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	4D
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

GZA-K:\PROJECTS\56800s\56642.1 Remedial Investigation - 129 Holden Street\Report Figures\Figures 2-8.dwg [Figure 4D Soil Areas-Brn Gravel & Sand] August 05, 2014 - 12:02pm Michael Kress
GZA - GZA GeoEnvironmental of N.Y.

LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

APPROXIMATE AREA OF BROWN SAND AND GRAVEL OBSERVED IN EXPLORATIONS

APPROXIMATE AREA OF DARK BROWN SAND AND GRAVEL OBSERVED IN EXPLORATIONS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. GRID SHOWN IS 1 ACRE INTERVALS.

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

SUBSURFACE SOIL AREAS-BROWN SAND AND GRAVEL

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 885-2300

PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	4E
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

GZA - K:\PROJECTS\56000s\56642.1 Remedial Investigation - 129 Holden Street\Report Figures\Figures 2-8.dwg [Figure 4E Soil Areas-Brn Sand & Gravel] August 05, 2014 - 12:04pm Michael Kress
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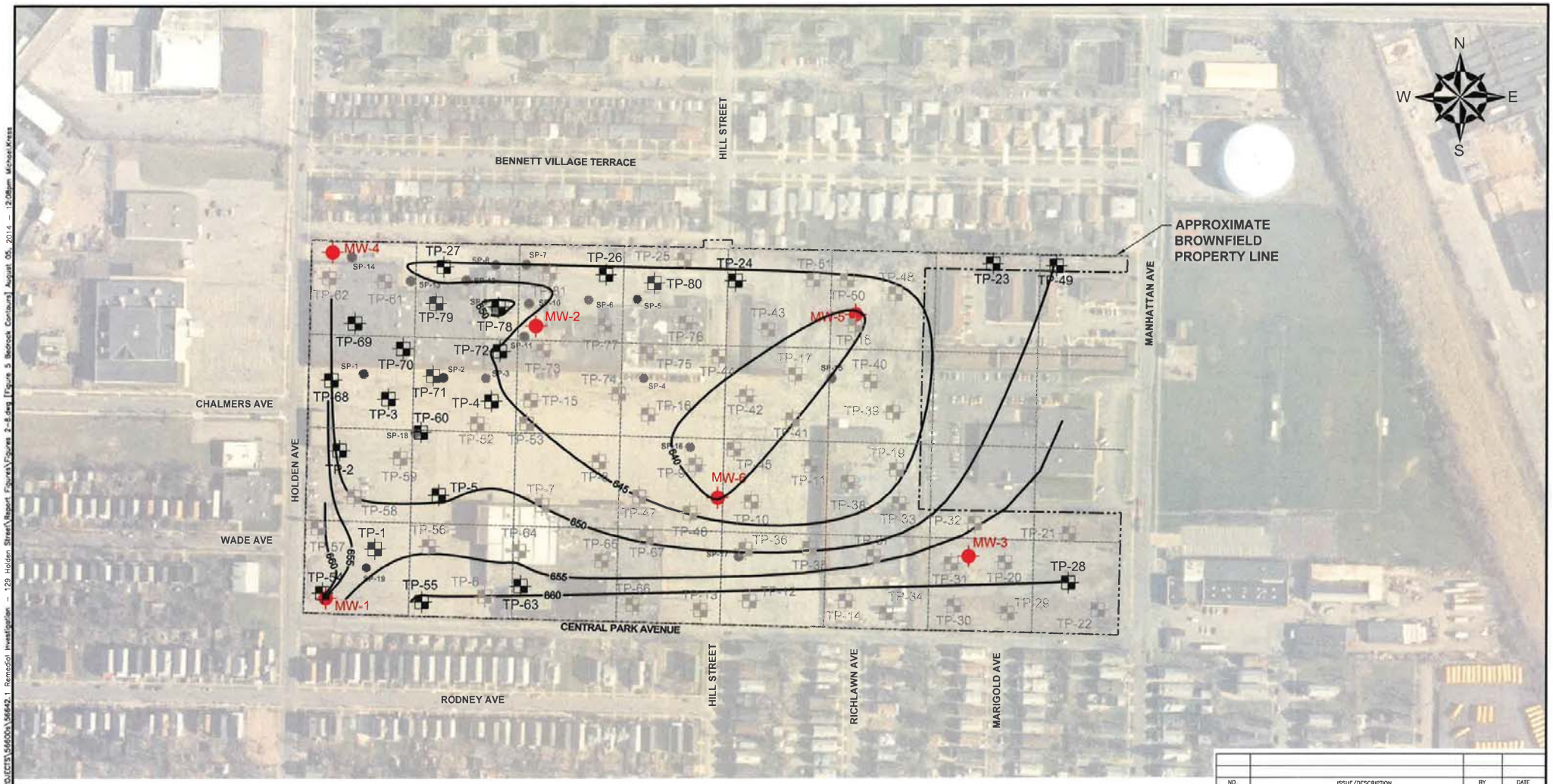

LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

—648— BEDROCK CONTOUR LINES WITH ELEVATIONS

GRID SHOWN IS 1 ACRE INTERVALS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

BEDROCK CONTOUR MAP

PREPARED BY:
GZA GeoEnvironmental of N.Y. Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	5
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

GZA-K:\PROJECTS\56600s\56642.1 Remedial Investigation -- 129 Holden Street\Report Figures\Figures 2-8.dwg [Figure 5 Bedrock Contours] August 05, 2014 -- 12:08pm Michael.Kress
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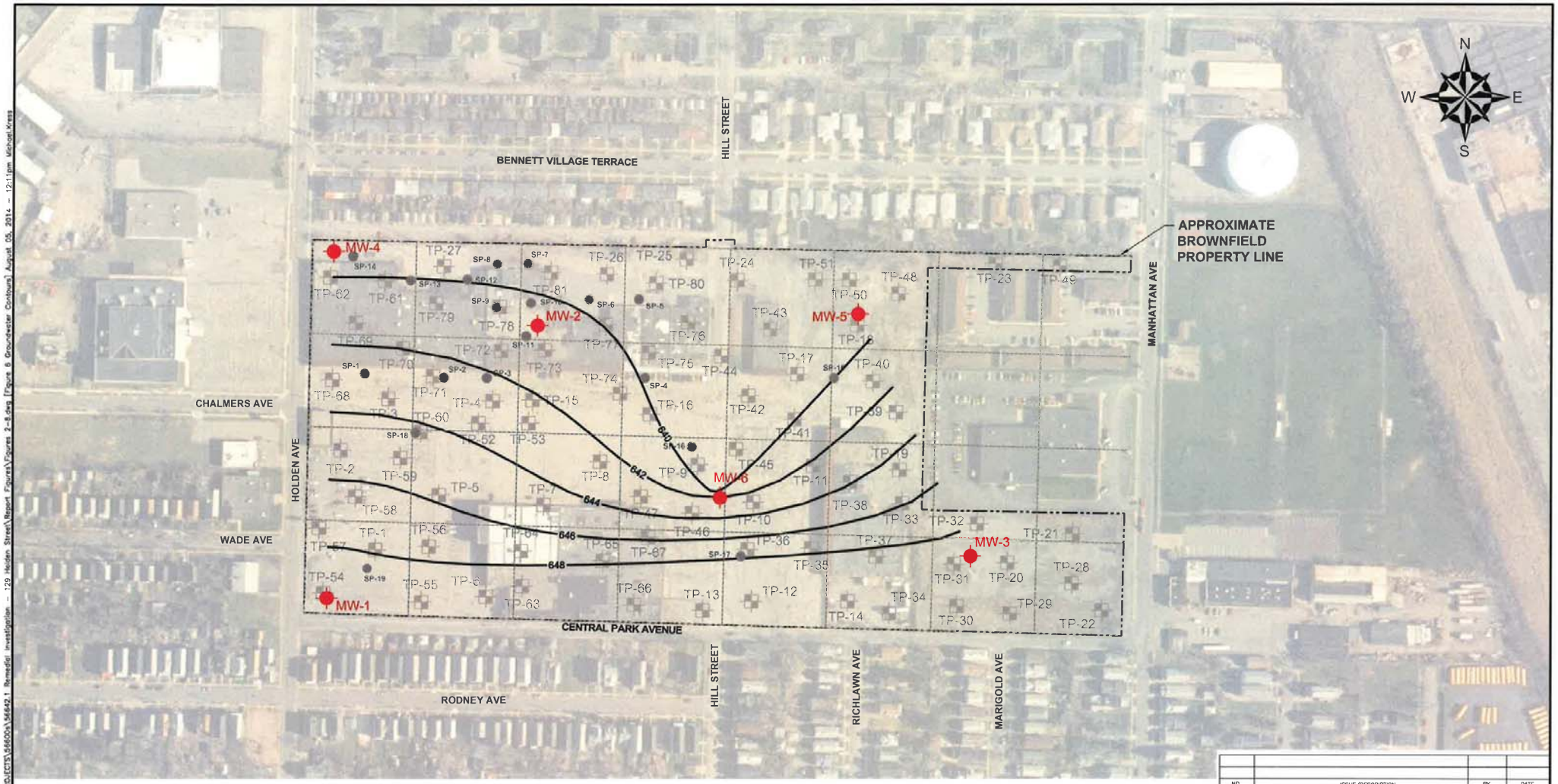

LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

—648— GROUNDWATER CONTOUR LINES WITH ELEVATIONS

GRID SHOWN IS 1 ACRE INTERVALS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

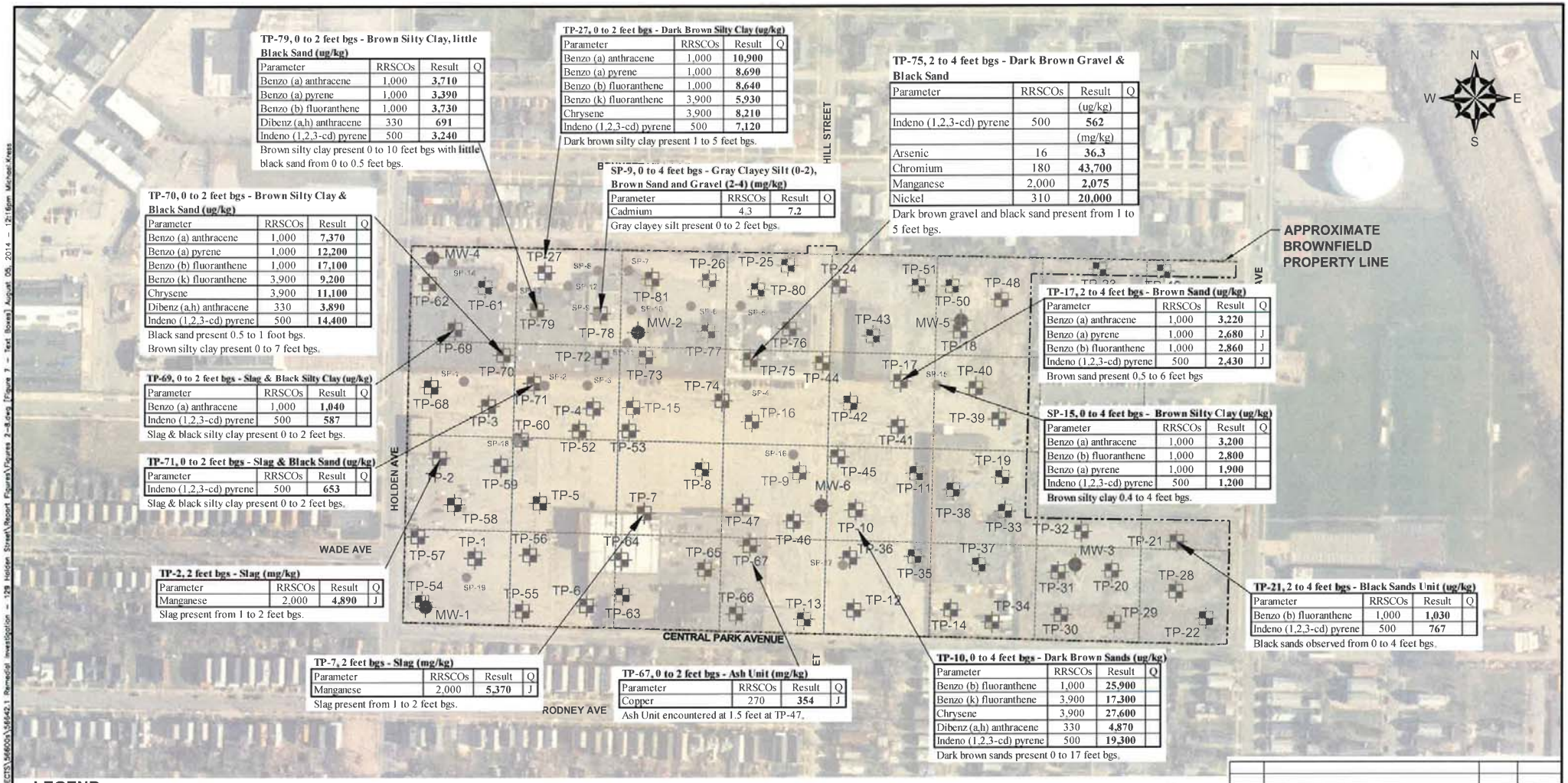
GROUNDWATER CONTOUR MAP

PREPARED BY:
GZA GeoEnvironmental of N.Y., Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: DEW	SCALE: AS SHOWN	6
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

©2014 – GZA GeoEnvironmental of N.Y. GZA-K:\PROJECTS\56600s\56642.1 Remedial Investigation – 129 Holden Street\Report Figures\Figures 2-8.dwg [Figure 6 Groundwater Contours] August 05, 2014 – 12:11pm Michael Kress



TP-79, 0 to 2 feet bgs - Brown Silty Clay, little Black Sand (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (a) anthracene	1,000	**3,710**	
Benzo (a) pyrene	1,000	**3,390**	
Benzo (b) fluoranthene	1,000	**3,730**	
Dibenz (a,h) anthracene	330	**691**	
Indeno (1,2,3-cd) pyrene	500	**3,240**	

Brown silty clay present 0 to 10 feet bgs with little black sand from 0 to 0.5 feet bgs.

TP-27, 0 to 2 feet bgs - Dark Brown Silty Clay (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (a) anthracene	1,000	**10,900**	
Benzo (a) pyrene	1,000	**8,690**	
Benzo (b) fluoranthene	1,000	**8,640**	
Benzo (k) fluoranthene	3,900	**5,930**	
Chrysene	3,900	**8,210**	
Indeno (1,2,3-cd) pyrene	500	**7,120**	

Dark brown silty clay present 1 to 5 feet bgs.

TP-75, 2 to 4 feet bgs - Dark Brown Gravel & Black Sand

Parameter	RRSCOs	Result	Q
		(ug/kg)	
Indeno (1,2,3-cd) pyrene	500	**562**	
		(mg/kg)	
Arsenic	16	**36.3**	
Chromium	180	**43,700**	
Manganese	2,000	**2,075**	
Nickel	310	**20,000**	

Dark brown gravel and black sand present from 1 to 5 feet bgs.

SP-9, 0 to 4 feet bgs - Gray Clayey Silt (0-2), Brown Sand and Gravel (2-4) (mg/kg)

Parameter	RRSCOs	Result	Q
Cadmium	4.3	**7.2**	

Gray clayey silt present 0 to 2 feet bgs.

TP-70, 0 to 2 feet bgs - Brown Silty Clay & Black Sand (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (a) anthracene	1,000	**7,370**	
Benzo (a) pyrene	1,000	**12,200**	
Benzo (b) fluoranthene	1,000	**17,100**	
Benzo (k) fluoranthene	3,900	**9,200**	
Chrysene	3,900	**11,100**	
Dibenz (a,h) anthracene	330	**3,890**	
Indeno (1,2,3-cd) pyrene	500	**14,400**	

Black sand present 0.5 to 1 foot bgs.
Brown silty clay present 0 to 7 feet bgs.

TP-69, 0 to 2 feet bgs - Slag & Black Silty Clay (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (a) anthracene	1,000	**1,040**	
Indeno (1,2,3-cd) pyrene	500	**587**	

Slag & black silty clay present 0 to 2 feet bgs.

TP-71, 0 to 2 feet bgs - Slag & Black Sand (ug/kg)

Parameter	RRSCOs	Result	Q
Indeno (1,2,3-cd) pyrene	500	**653**	

Slag & black silty clay present 0 to 2 feet bgs.

TP-2, 2 feet bgs - Slag (mg/kg)

Parameter	RRSCOs	Result	Q
Manganese	2,000	**4,890**	J

Slag present from 1 to 2 feet bgs.

TP-7, 2 feet bgs - Slag (mg/kg)

Parameter	RRSCOs	Result	Q
Manganese	2,000	**5,370**	J

Slag present from 1 to 2 feet bgs.

TP-67, 0 to 2 feet bgs - Ash Unit (mg/kg)

Parameter	RRSCOs	Result	Q
Copper	270	**354**	J

Ash Unit encountered at 1.5 feet at TP-47.

TP-10, 0 to 4 feet bgs - Dark Brown Sands (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (b) fluoranthene	1,000	**25,900**	
Benzo (k) fluoranthene	3,900	**17,300**	
Chrysene	3,900	**27,600**	
Dibenz (a,h) anthracene	330	**4,870**	
Indeno (1,2,3-cd) pyrene	500	**19,300**	

Dark brown sands present 0 to 17 feet bgs.

TP-17, 2 to 4 feet bgs - Brown Sand (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (a) anthracene	1,000	**3,220**	
Benzo (a) pyrene	1,000	**2,680**	J
Benzo (b) fluoranthene	1,000	**2,860**	J
Indeno (1,2,3-cd) pyrene	500	**2,430**	J

Brown sand present 0.5 to 6 feet bgs

SP-15, 0 to 4 feet bgs - Brown Silty Clay (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (a) anthracene	1,000	**3,200**	
Benzo (b) fluoranthene	1,000	**2,800**	
Benzo (a) pyrene	1,000	**1,900**	
Indeno (1,2,3-cd) pyrene	500	**1,200**	

Brown silty clay 0.4 to 4 feet bgs.

TP-21, 2 to 4 feet bgs - Black Sands Unit (ug/kg)

Parameter	RRSCOs	Result	Q
Benzo (b) fluoranthene	1,000	**1,030**	
Indeno (1,2,3-cd) pyrene	500	**767**	

Black sands observed from 0 to 4 feet bgs.

LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. GRID SHOWN IS 1 ACRE INTERVALS.

4. ORGANIC CONSTITUENTS EXPRESSED IN ug/kg (ppb). INORGANIC CONSTITUENTS EXPRESSED IN mg/kg (ppm)

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

LOCATION OF SOIL CONTAMINATION ABOVE RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES AT DEPTH OF 4 FEET BGS OR LESS

PREPARED BY:
GZA GeoEnvironmental of N.Y.
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(716) 685-2300

PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: MDK	SCALE: AS SHOWN	7
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

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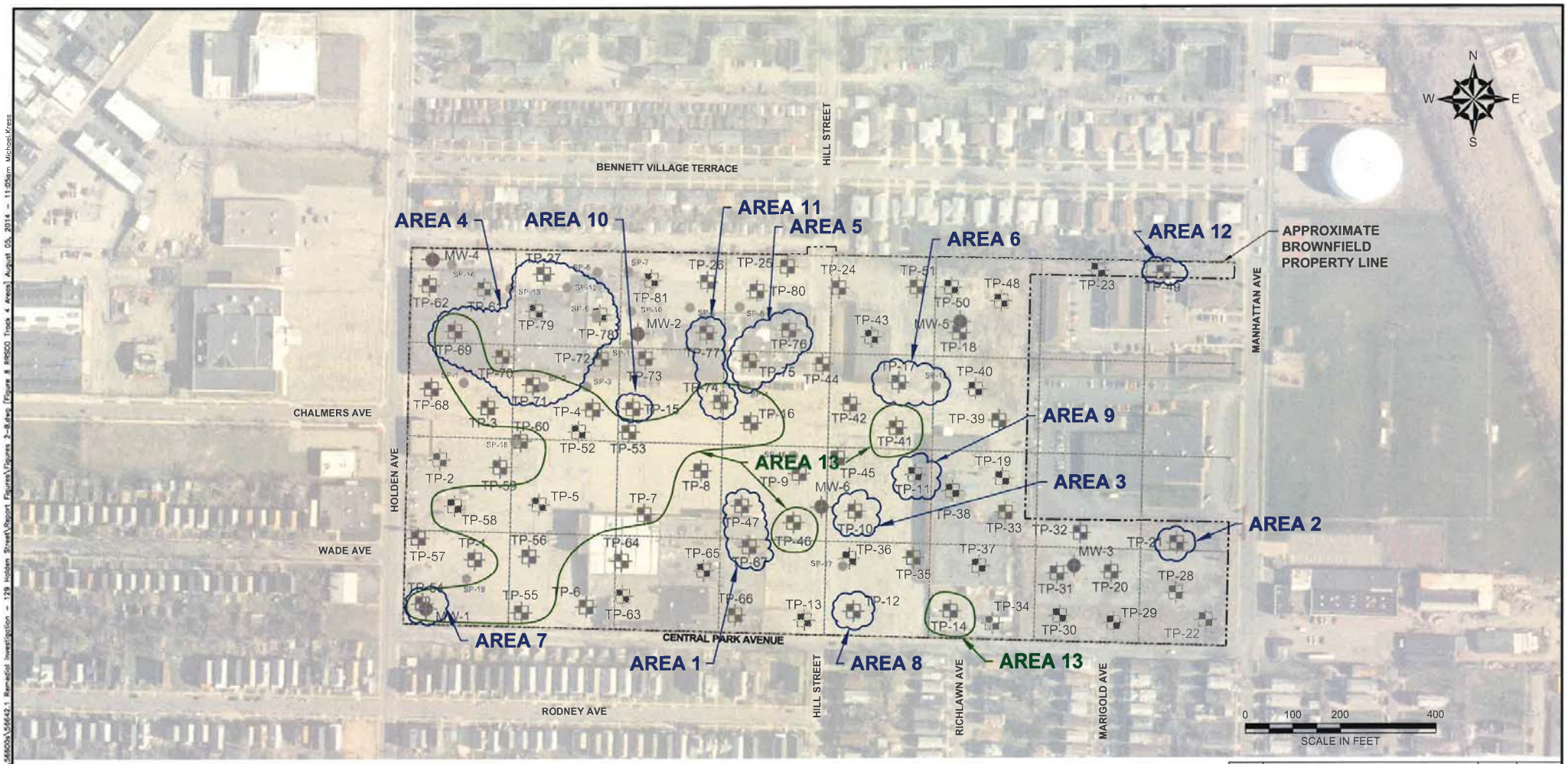

LEGEND:

TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL

SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011

APPROXIMATE LOCATION AND DESIGNATION OF POTENTIAL REMEDIAL ACTION

APPROXIMATE AREA OF SLAG MATERIAL OBSERVED IN EXPLORATIONS

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. GRID SHOWN IS 1 ACRE INTERVALS.

4. SEE TABLE 4 FOR DESCRIPTION OF REMEDIAL AREAS.

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

POTENTIAL AREAS OF REMEDIAL ACTION FOR RRSCO TRACK CLEANUP TO MINIMUM DEPTH OF 4 FEET BGS

PREPARED BY: GZA GeoEnvironmental of N.Y. Engineers and Scientists
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BUFFALO, NEW YORK 14203
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PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: MDK	SCALE: AS SHOWN	8
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

GZA - K:\PROJECTS\56600s\56642.1 Remedial Investigation - 129 Holden Street\Report Figures\Figures 2-8.dwg [Figure 8 RRSCO Track 4 Areas] August 05, 2014 - 11:05am Michael.Kress
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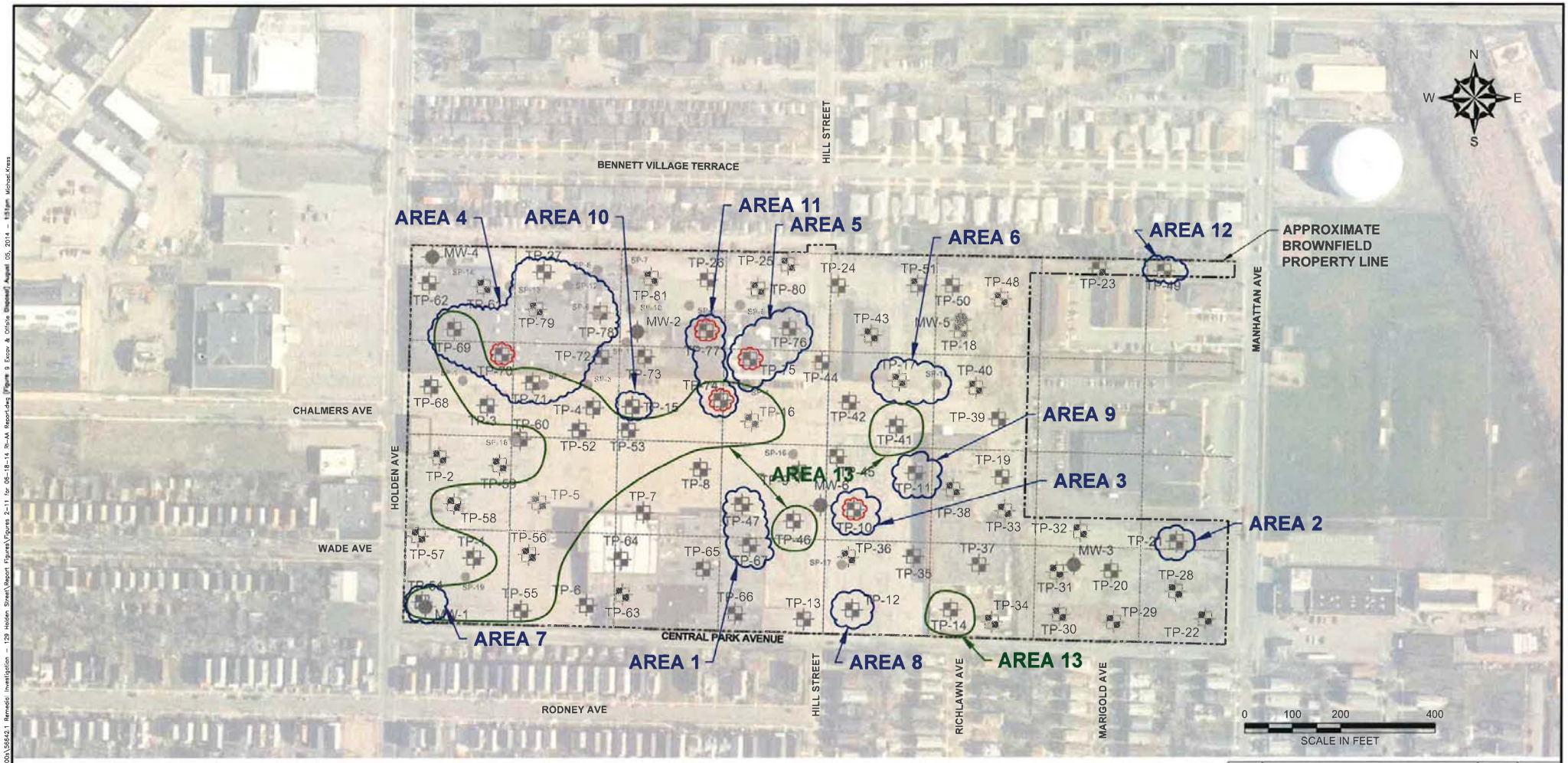

LEGEND:

- TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011
- APPROXIMATE LOCATION AND DESIGNATION OF POTENTIAL REMEDIAL ACTION
- APPROXIMATE AREA OF SLAG MATERIAL OBSERVED IN EXPLORATIONS
- APPROXIMATE LOCATION AND DESIGNATION OF POTENTIAL AREA TO BE EXCAVATED FOR OFF-SITE DISPOSAL

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
3. GRID SHOWN IS 1 ACRE INTERVALS.
4. SEE TABLE 4 FOR DESCRIPTION OF REMEDIAL AREAS.

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT

POTENTIAL AREAS OF EXCAVATION AND OFFSITE DISPOSAL REMEDIAL ACTION FOR RRSCO TRACK CLEANUP TO MINIMUM DEPTH OF 4 FEET BGS

PREPARED BY:
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(716) 685-2300

PREPARED FOR:
HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: MDK	SCALE: AS SHOWN	9
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

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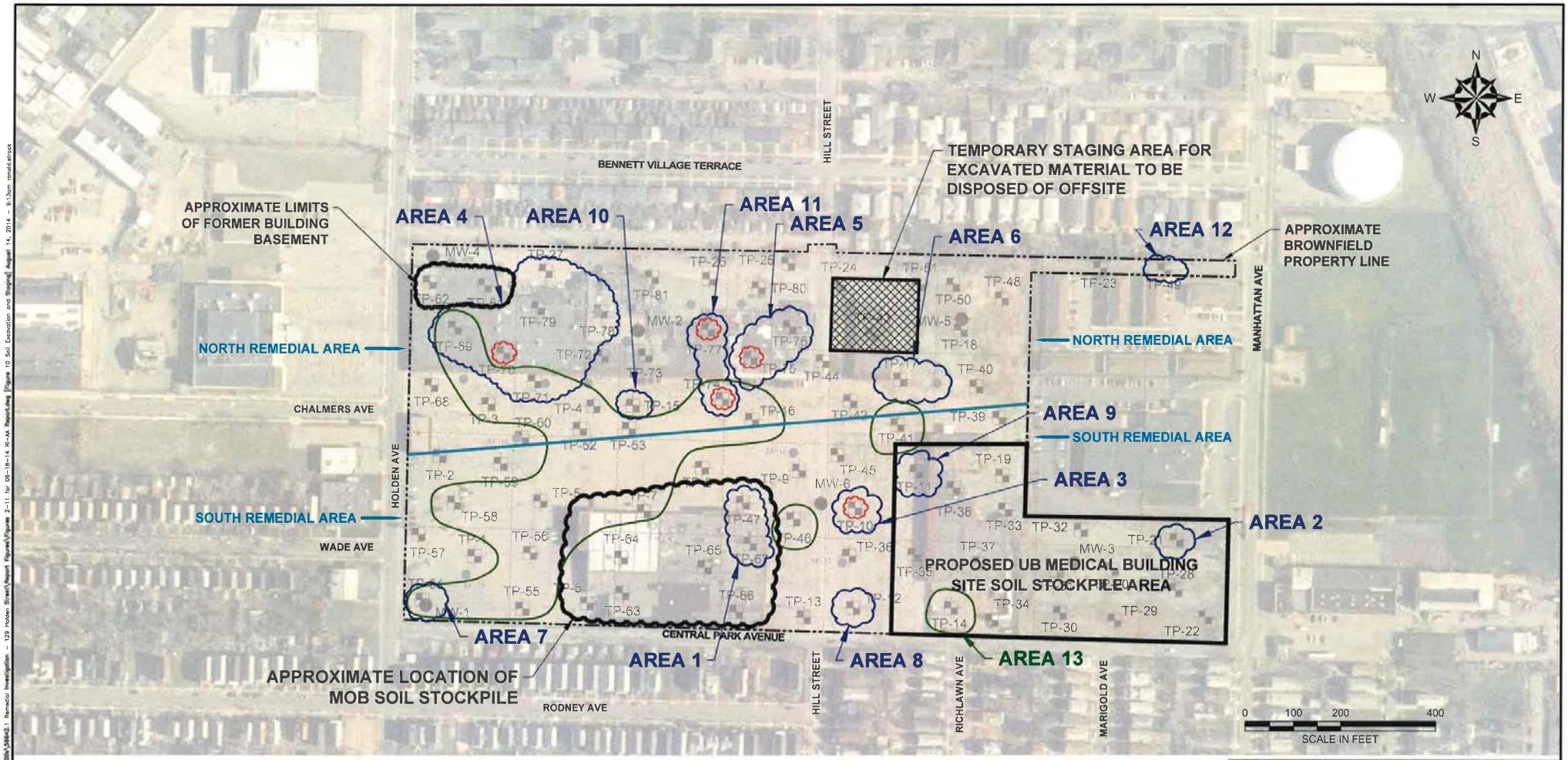

LEGEND:

- TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PITS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS COMPLETED BY NATURE'S WAY ENVIRONMENTAL
- SP-3 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES COMPLETED BY TREC ENVIRONMENTAL, INC. ON OCTOBER 11, 2011
- APPROXIMATE LOCATION AND DESIGNATION OF POTENTIAL REMEDIAL ACTION
- APPROXIMATE AREA OF SLAG MATERIAL OBSERVED IN EXPLORATIONS
- APPROXIMATE LOCATION AND DESIGNATION OF POTENTIAL AREA TO BE EXCAVATED FOR OFF-SITE DISPOSAL

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
3. GRID SHOWN IS 1 ACRE INTERVALS.
4. SEE TABLE 4 FOR DESCRIPTION OF REMEDIAL AREAS.

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT
SOIL EXCAVATION AND STAGING PLAN

PREPARED BY:
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Engineers and Scientists
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BUFFALO, NEW YORK 14203
(716) 885-2300

PREPARED FOR: HIGHLAND PARK VILLAGE, LLC

PROJ MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: TAK	SCALE: AS SHOWN	10
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

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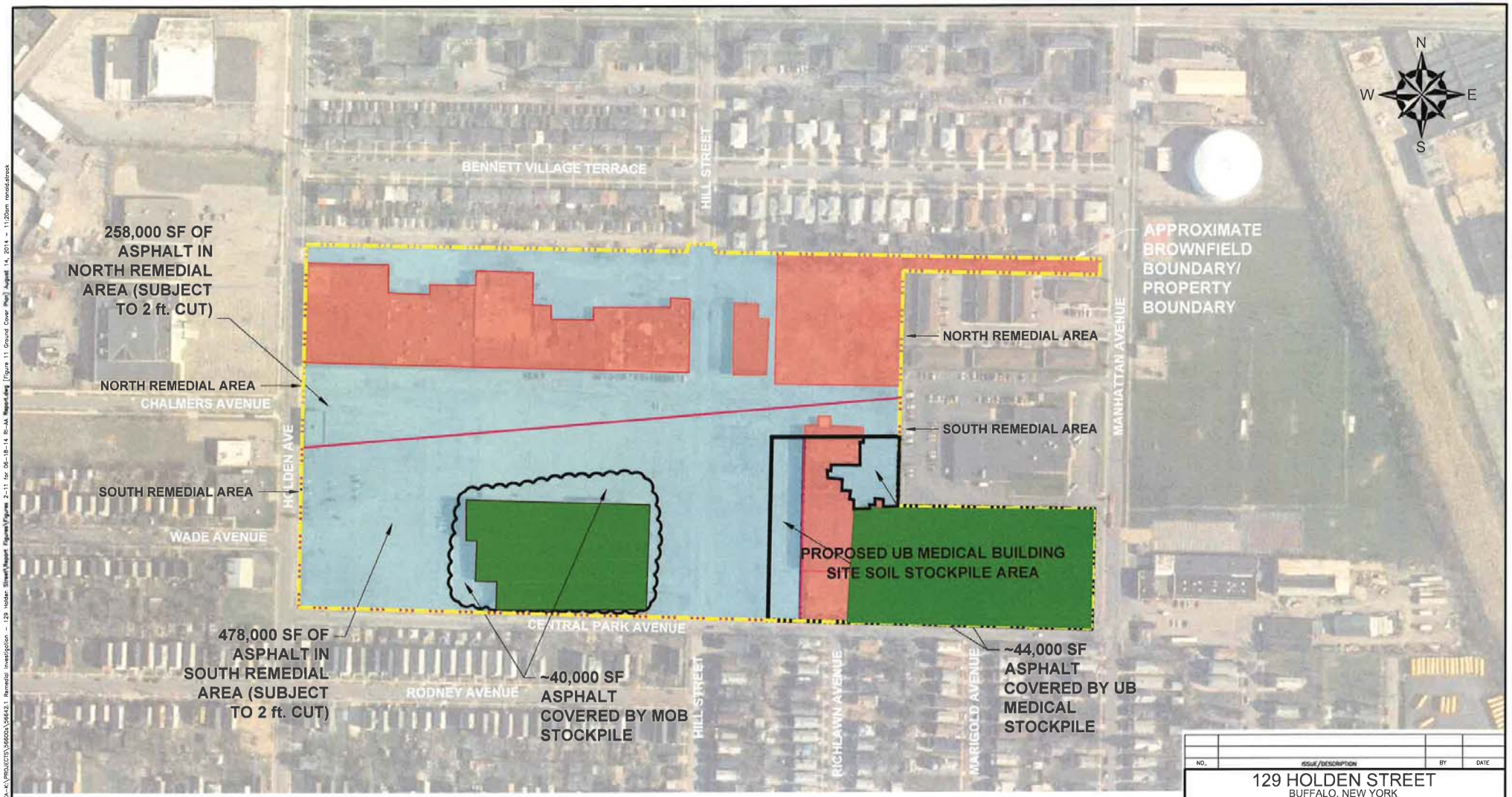

LEGEND:

- SOIL STOCKPILES
- GRAVEL, SOIL, OR VEGETATIVE COVER
- ASPHALT COVER

NOTES:

1. BASE MAP ADAPTED FROM A 2008 AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/index.html AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 100 200 400
SCALE IN FEET

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129 HOLDEN STREET
BUFFALO, NEW YORK

REMEDIAL INVESTIGATION ALTERNATIVE ANALYSIS REPORT
CURRENT SITE GROUND COVER

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
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BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
HIGHLAND PARK VILLAGE, LLC

PROJ. MGR: CZB	REVIEWED BY:	CHECKED BY:	FIGURE
DESIGNED BY:	DRAWN BY: MDK	SCALE: AS SHOWN	11
DATE AUGUST 2014	PROJECT NO. 21.0056642.10	REVISION NO.	

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