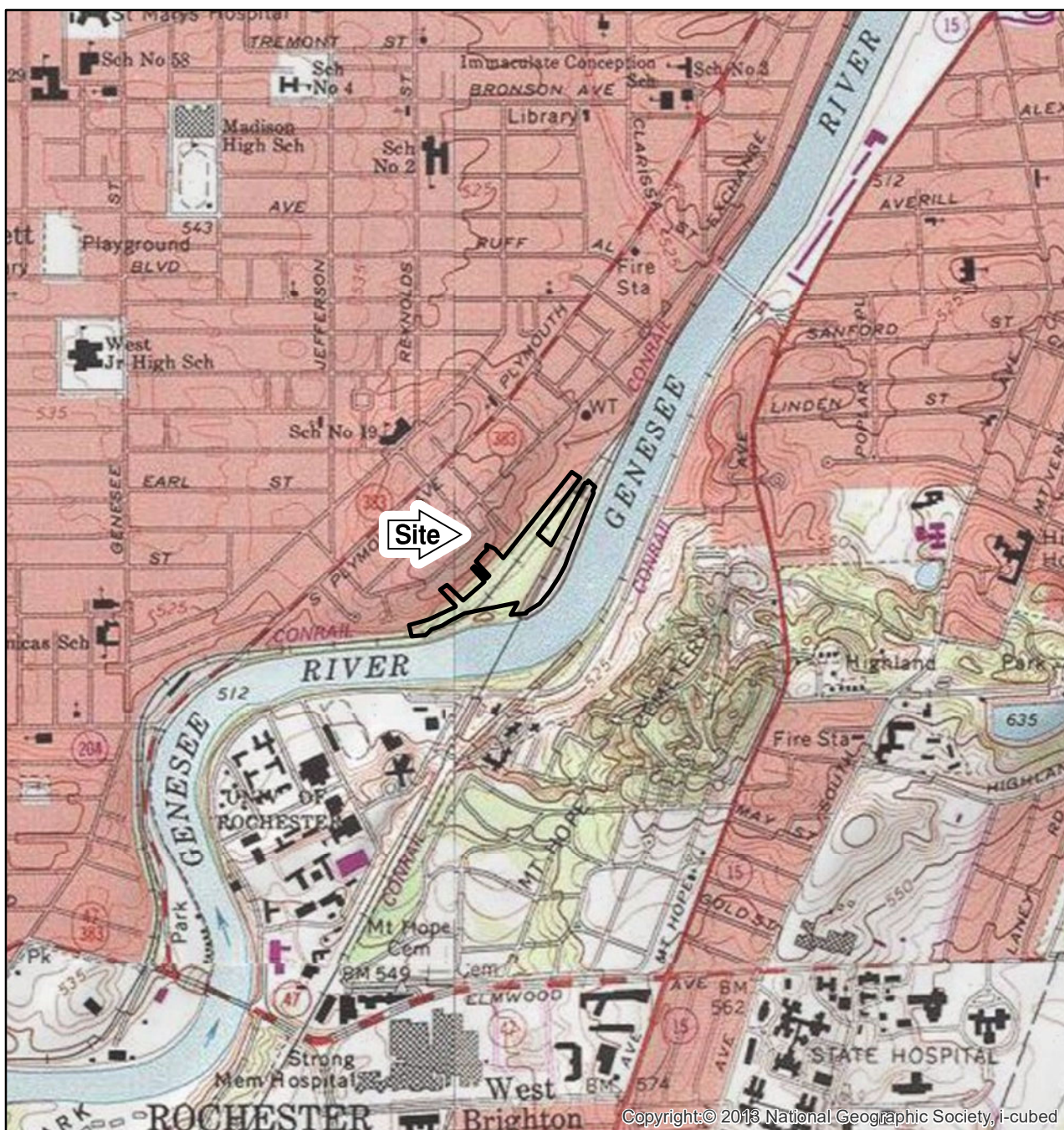


Figures

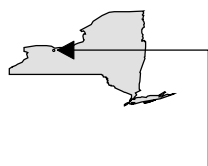
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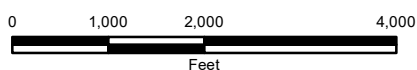
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
CITY OF ROCHESTER
PORTION OF FORMER VACUUM OIL
REFINERY
ROCHESTER, NEW YORK



MAP LOCATION



SITE LOCATION

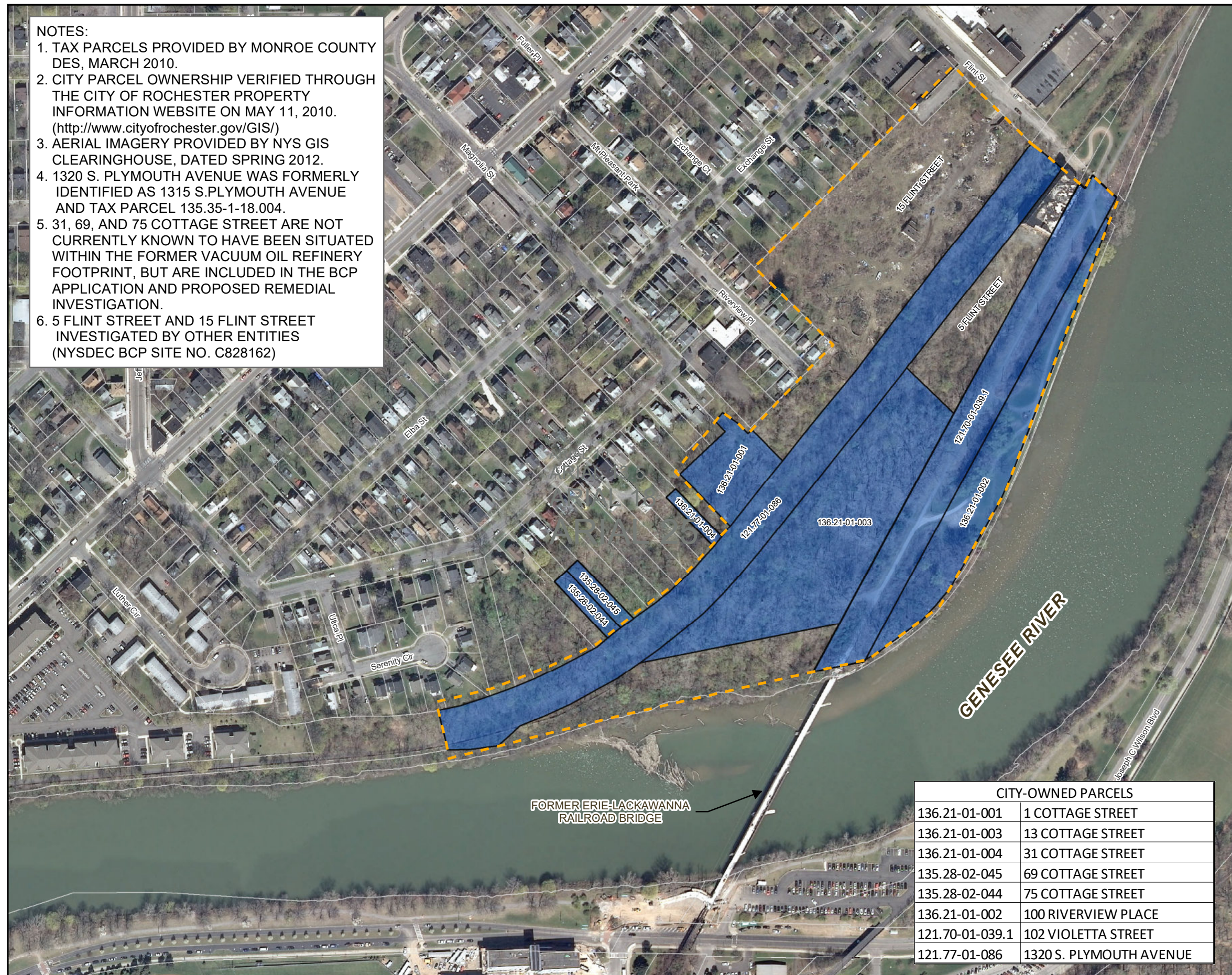


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O'BRIEN & GERE ENGINEERS, INC.

11862/61157
MAY 2018



LEGEND

- FORMER VACUUM OIL REFINERY (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SITE DETAIL



FILE NO. 11862.61157
MAY 2019



O'BRIEN & GERE ENGINEERS, INC.

CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

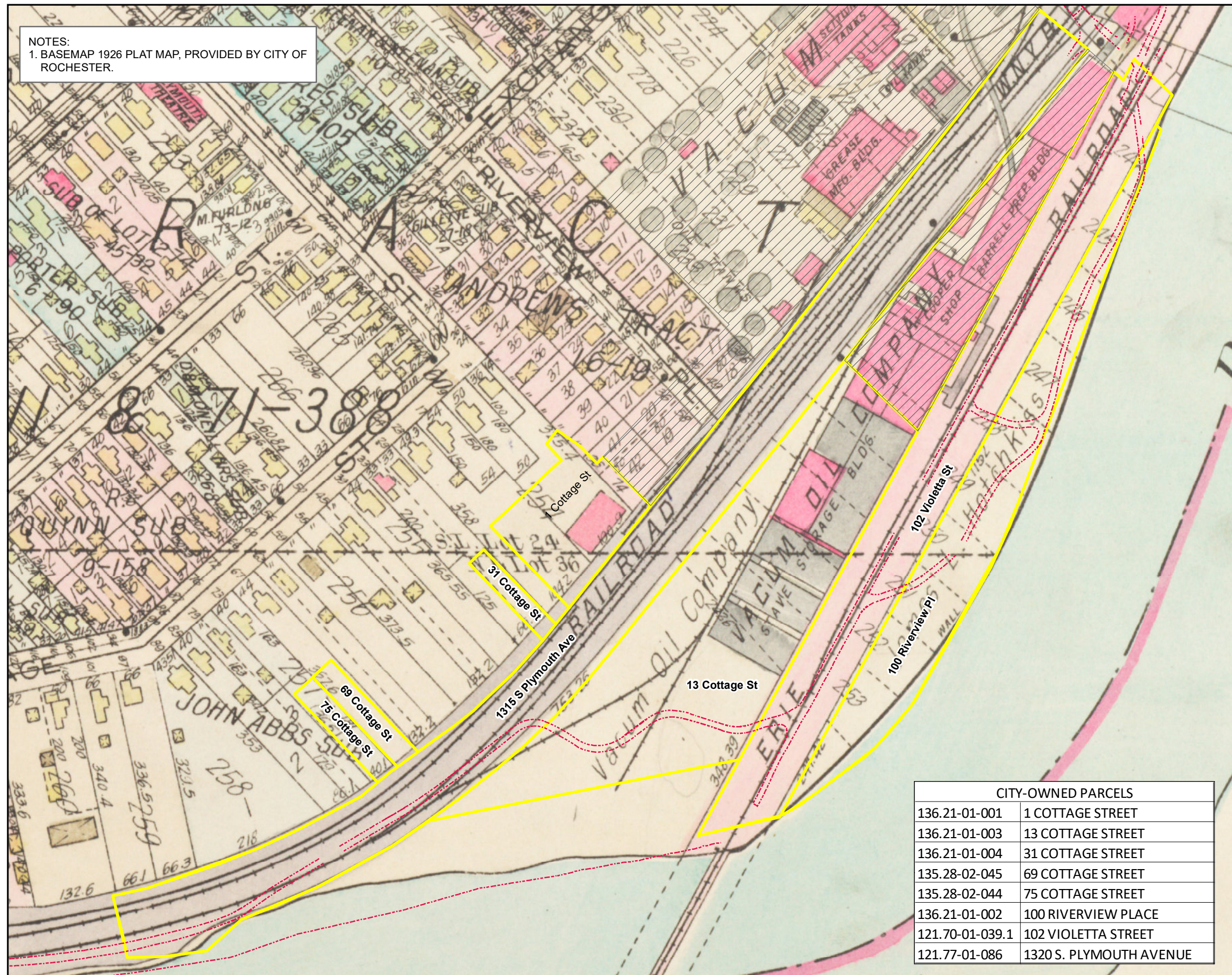


FIGURE 3



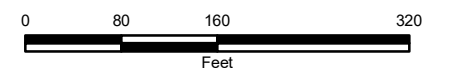
LEGEND

-  BROWNFIELD CLEANUP PROGRAM
SITE LIMITS (APPROXIMATELY
15.4 ACRES)
-  BIKE PATH
-  NOT PART OF CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
SITE; HOWEVER, THESE PARCELS
WERE INVESTIGATED BY
OTHER ENTITIES.

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL
REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

HISTORIC VACUUM OIL OVERVIEW (INCLUDING 1926 PLAT MAP)



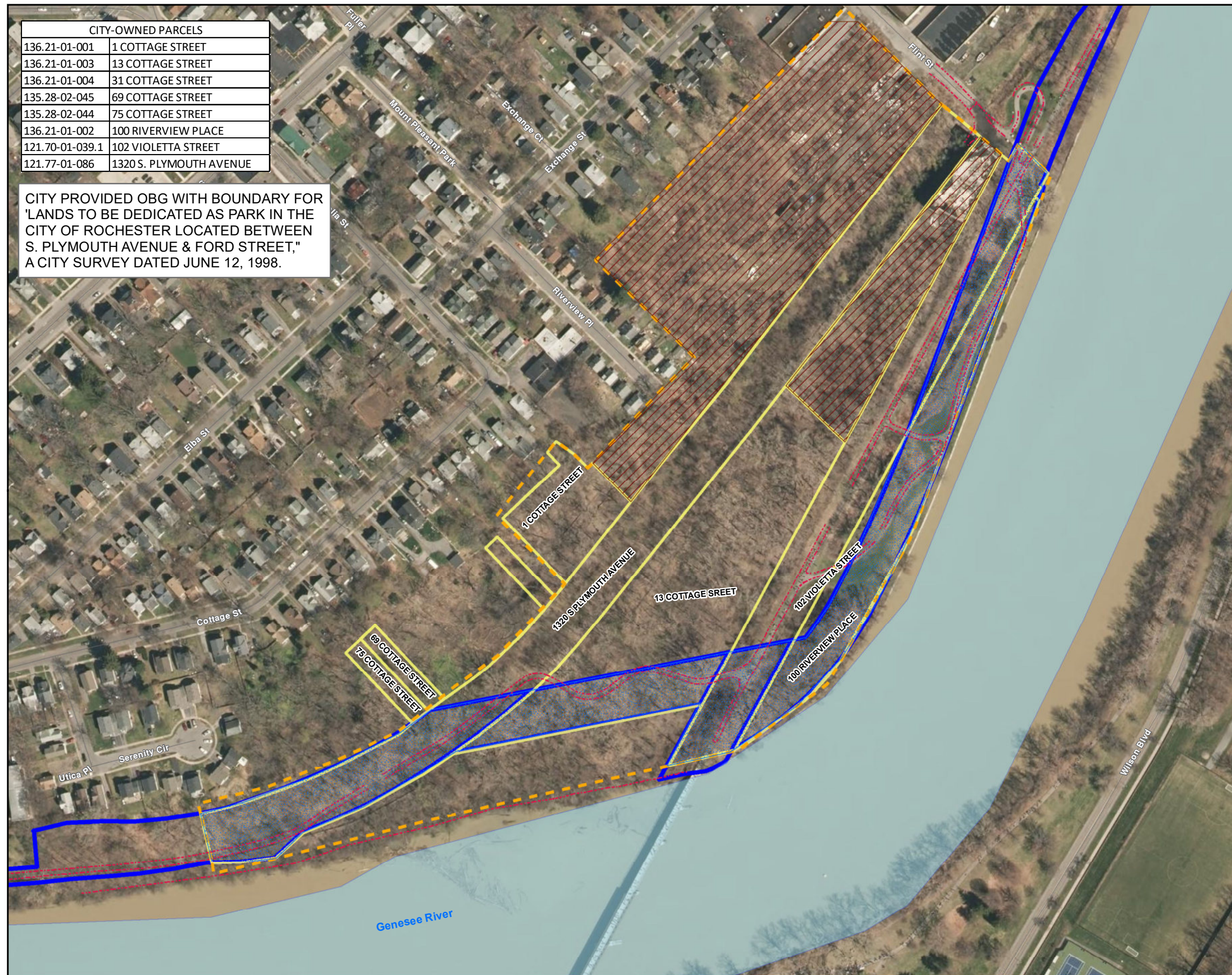
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MAY 2019



O'BRIEN & GERE ENGINEERS, INC.

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LEGEND

- CHANGE IN USE AREA (7.7613 ACRES)
- CHANGE IN USE AREA (5.27 ACRES WITHIN BCP AREA)
- BIKE PATH
- 5 & 15 FLINT STREET ARE NOT PART OF CITY OF ROCHESTER BCP SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES UNDER NYSDEC BCP SITE No. C828162.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- CITY BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES). NYSDEC BCP SITE No. C828190

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL
REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

PROPOSED PARKLAND



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MAY 2019



O'BRIEN & GERE ENGINEERS, INC.

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This document was developed in color. Reproduction in B/W may not represent the data as intended.

Location ID Site Observations

1 Westernmost point of the Site along river bank. Miscellaneous trash. Overgrown vegetation.

2 Northwest portion of Site (backyards of Cottage Street properties visible).

3 Railroad timbers.

4 Automobile gas tank, crushed metal garbage can, 55-gallon drum.

5 Foundation walls. Former railroad bed foundation walls.

6 Railroad ties. Start of railroad bed. Foundation wall. Brick piles - approximately 50' L x 5' W.

7 Large foundation wall. Residential fuel oil tank. Tank is empty, no odors present, no signs of staining. Miscellaneous trash on top of property line.

8 Crushed metal drums. Scrap metal pile. Dark grey/black coal ash type debris.

9 Ravine facing river.

11 Culvert/drainage opening in ravine along river.

12 Two manholes, vent.

13 Former refinery building.

14 Crushed metal drums, debris in marsh area. Overgrown vegetation. Dozens of tires, concrete block.

15 Concrete rubble. Flagstone. Large culvert or pipe.

16 Metal piping. Fire hydrant #1.

17 Vehicle gasoline tank. Large crushed metal fuel oil tank.

18 Dozens of tires. Fire hydrant #2. Crushed metal Coca-Cola container. Concrete rubble/debris. Approximate 10'x10' area of cinder blocks (CMU). Rubble pile approximately 5' x 5'.

19 Scattered bricks throughout area. Metal tank approximately 5' diameter and 10' long. No odors or staining present. Few pieces of scrap metal.

20 Foundation wall. Concrete former sewage manhole (filled in). Second foundation wall. Approximately 2 dozen tires. Fire hydrant #3. Concrete rubble pile.

21 Concrete Wall.

22 Fire hydrant #4. Concrete wall.

23 Concrete wall. Secondary concrete wall parallel to first wall.

24 Tree and brush debris.

25 MCWA sanitary manhole.

27 Fire hydrant #5.

28 Metal well piping. Blue basin.

29 Stickup monitoring well. Concrete crescent shaped manhole. Concrete foundation.

30 Coal ash type debris pile.

31 Short fence.

EXCHANGE CT
MOUNT PLEASANT PARK
RIVERVIEW PLACE
15 FLINT STREET
69 FLINT STREET
102 VIOLETTA STREET
100 RIVERVIEW PLACE
1320 S PLYMOUTH AVENUE
1 COTTAGE STREET
31 COTTAGE STREET
69 COTTAGE STREET
75 COTTAGE STREET
SERENITY CIRCLE

GENESEE RIVER (DIRECTION OF FLOW)

APPROXIMATE LOCATION OF SLUDGE PITS

UNDERGROUND CORRUGATED METAL DRAINAGE PIPE

INTERMITTENT PONDING WATER DURING WET MONTHS

NYSDEC INSTALLED WELL IN 2000

LEGEND

SAMPLE LOCATION TYPE

BED1-100 BEDROCK WELL

OVR-106 OVERBURDEN MONITORING WELL

TP-149 TEST PIT

SB-100 SOIL BORING

SS-100 SURFACE SOIL

SV-100 SOIL VAPOR

SITE FEATURES

MANHOLE COVER

BIKE PATH

DELINEATED WETLANDS (BY OTHERS)

BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)

NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

TANK CARCASS

RETAINING WALL

SLAG MOUND OR REEL-O-MATIC

SHALLOW FLOOR PIT

RUBBLE AND OR TIRE PILE

MOLTEN PLASTIC

SEWAGE PIPE

CONCRETE BLOCKS

MACHINERY

FIRE HYDRANT

FENCE POST

55 GALLON DRUM

REMNANTS OF CIRCULAR FOOTINGS

CULVERT

WALL FOUNDATION

PIPING

DRAINAGE SWALE

CONCRETE STRUCTURE

WATER PIPE

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIATION INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

CITY-OWNED PARCELS

136.21-01-001 1 COTTAGE STREET

136.21-01-003 13 COTTAGE STREET

136.21-01-004 31 COTTAGE STREET

135.28-02-045 69 COTTAGE STREET

135.28-02-044 75 COTTAGE STREET

136.21-01-002 100 RIVERVIEW PLACE

121.70-01-039.1 102 VIOLETTA STREET

121.77-01-086 1320 S. PLYMOUTH AVENUE

NOTES:

1. LOCATIONS OF PARCEL BOUNDARIES ARE APPROXIMATE AND PROVIDED BY THE CITY OF ROCHESTER.

2. SOME SHAPEFILES OBTAINED FROM LABELLA ASSOCIATES, P.C. IN 2008/2009.

3. INFORMATION SOURCES:

- DATA SUMMARY PACKAGE, FORMER VACUUM OIL REFINERY SITE - 15 FLINT STREET, OCTOBER 2008, LABELLA ASSOCIATES, P.C.

- SUBSURFACE INVESTIGATION SUMMARY REPORT, FORMER VACUUM OIL COMPANY REFINERY AREA, JANUARY 12, 2009, ROUX ASSOCIATES, INC.

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4. 2015 AERIAL IMAGERY OBTAINED FROM NYS GIS CLEARINGHOUSE.

5. EXISTING MULTI-USE TRAIL SHAPEFILE PROVIDED BY GENESEE TRANSPORTATION COUNCIL, LOCATED IN ROCHESTER, NEW YORK ON MAY 28, 2015.

6. SAMPLE LOCATION COORDINATES RECORDED USING A GPS UNIT.

7. RECOGNIZED ENVIRONMENTAL CONDITIONS ARE DETAILED IN THE DECEMBER 2012 OBG PHASE I ESA REPORT.

FIGURE 4

SAMPLE LOCATION TYPE

BED1-100 BEDROCK WELL

OVR-106 OVERBURDEN MONITORING WELL

TP-149 TEST PIT

SB-100 SOIL BORING

SS-100 SURFACE SOIL

SV-100 SOIL VAPOR

SITE FEATURES

MANHOLE COVER

BIKE PATH

DELINEATED WETLANDS (BY OTHERS)

BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)

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TANK CARCASS

RETAINING WALL

SLAG MOUND OR REEL-O-MATIC

SHALLOW FLOOR PIT

RUBBLE AND OR TIRE PILE

MOLTEN PLASTIC

SEWAGE PIPE

CONCRETE BLOCKS

MACHINERY

FIRE HYDRANT

FENCE POST

55 GALLON DRUM

REMNANTS OF CIRCULAR FOOTINGS

CULVERT

WALL FOUNDATION

PIPING

DRAINAGE SWALE

CONCRETE STRUCTURE

WATER PIPE

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIATION INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

CITY-OWNED PARCELS

136.21-01-001 1 COTTAGE STREET

136.21-01-003 13 COTTAGE STREET

136.21-01-004 31 COTTAGE STREET

135.28-02-045 69 COTTAGE STREET

135.28-02-044 75 COTTAGE STREET

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121.77-01-086 1320 S. PLYMOUTH AVENUE

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FIGURE 4

SAMPLE LOCATION TYPE

BED1-100 BEDROCK WELL

OVR-106 OVERBURDEN MONITORING WELL

TP-149 TEST PIT

SB-100 SOIL BORING

SS-100 SURFACE SOIL

SV-100 SOIL VAPOR

SITE FEATURES

MANHOLE COVER

BIKE PATH

DELINEATED WETLANDS (BY OTHERS)

BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)

NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

TANK CARCASS

RETAINING WALL

SLAG MOUND OR REEL-O-MATIC

SHALLOW FLOOR PIT

RUBBLE AND OR TIRE PILE

MOLTEN PLASTIC

SEWAGE PIPE

CONCRETE BLOCKS

MACHINERY

FIRE HYDRANT

FENCE POST

55 GALLON DRUM

REMNANTS OF CIRCULAR FOOTINGS

CULVERT

WALL FOUNDATION

PIPING

DRAINAGE SWALE

CONCRETE STRUCTURE

WATER PIPE

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIATION INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

CITY-OWNED PARCELS

136.21-01-001 1 COTTAGE STREET

136.21-01-003 13 COTTAGE STREET

136.21-01-004 31 COTTAGE STREET

135.28-02-045 69 COTTAGE STREET

135.28-02-044 75 COTTAGE STREET

136.21-01-002 100 RIVERVIEW PLACE

121.70-01-039.1 102 VIOLETTA STREET

121.77-01-086 1320 S. PLYMOUTH AVENUE

NOTES:

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FIGURE 4

SAMPLE LOCATION TYPE

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OVR-106 OVERBURDEN MONITORING WELL

TP-149 TEST PIT

SB-100 SOIL BORING

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SV-100 SOIL VAPOR

SITE FEATURES

MANHOLE COVER

BIKE PATH

DELINEATED WETLANDS (BY OTHERS)

BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)

NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

TANK CARCASS

RETAINING WALL

SLAG MOUND OR REEL-O-MATIC

SHALLOW FLOOR PIT

RUBBLE AND OR TIRE PILE

MOLTEN PLASTIC

SEWAGE PIPE

CONCRETE BLOCKS

MACHINERY

FIRE HYDRANT

FENCE POST

55 GALLON DRUM

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CULVERT

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PIPING

DRAINAGE SWALE

CONCRETE STRUCTURE

WATER PIPE

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIATION INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

CITY-OWNED PARCELS

136.21-01-001 1 COTTAGE STREET

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136.21-01-004 31 COTTAGE STREET

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135.28-02-044 75 COTTAGE STREET

136.21-01-002 100 RIVERVIEW PLACE

121.70-01-039.1 102 VIOLETTA STREET

121.77-01-086 1320 S. PLYMOUTH AVENUE

NOTES:

1. LOCATIONS OF PARCEL BOUNDARIES ARE APPROXIMATE AND PROVIDED BY THE CITY OF ROCHESTER.

2. SOME SHAPEFILES OBTAINED FROM LABELLA ASSOCIATES, P.C. IN 2008/2009.

3. INFORMATION SOURCES:

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- SUBSURFACE INVESTIGATION SUMMARY REPORT, FORMER VACUUM OIL COMPANY REFINERY AREA, JANUARY 12, 2009, ROUX ASSOCIATES, INC.

- PHASE I ENVIRONMENTAL SITE ASSESSMENTS 1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND 1315 S. PLYMOUTH AVENUE; ROCHESTER, NEW YORK, DECEMBER 2012, OBG.

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6. SAMPLE LOCATION COORDINATES RECORDED USING A GPS UNIT.

7. RECOGNIZED ENVIRONMENTAL CONDITIONS ARE DETAILED IN THE DECEMBER 2012 OBG PHASE I ESA REPORT.

FIGURE 4

SAMPLE LOCATION TYPE

BED1-100 BEDROCK WELL

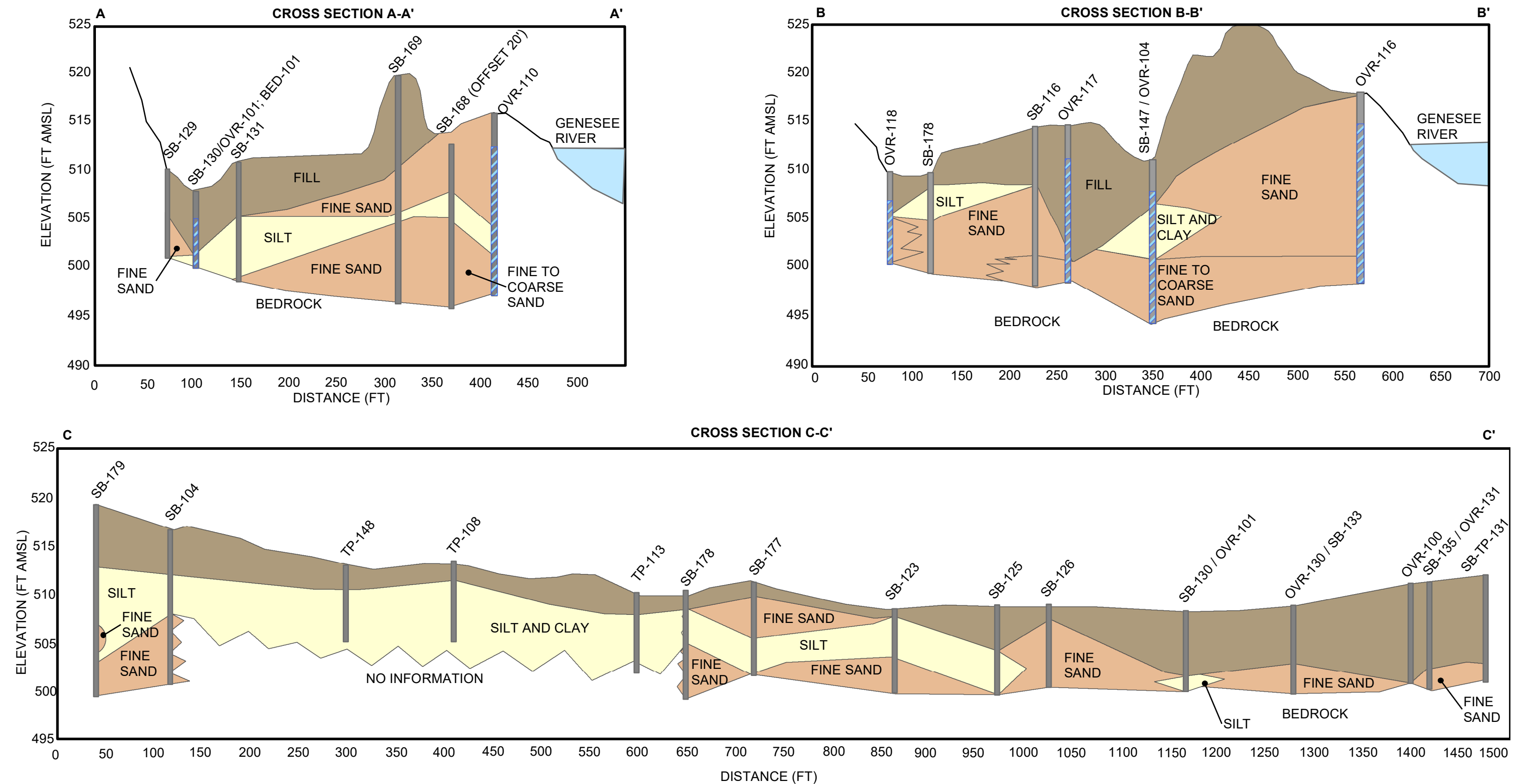
OVR-106 OVERBURDEN MONITORING WELL

TP-149 TEST PIT

SB-100 SOIL BORING

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LEGEND

- FILL
- SAND
- SILT AND/OR CLAY
- BORING OR TEST PIT
- WELL SCREENED INTERVAL

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

NOTE: STRATIGRAPHIC LENSES LESS THAN 2 FEET THICK ARE NOT SHOWN.



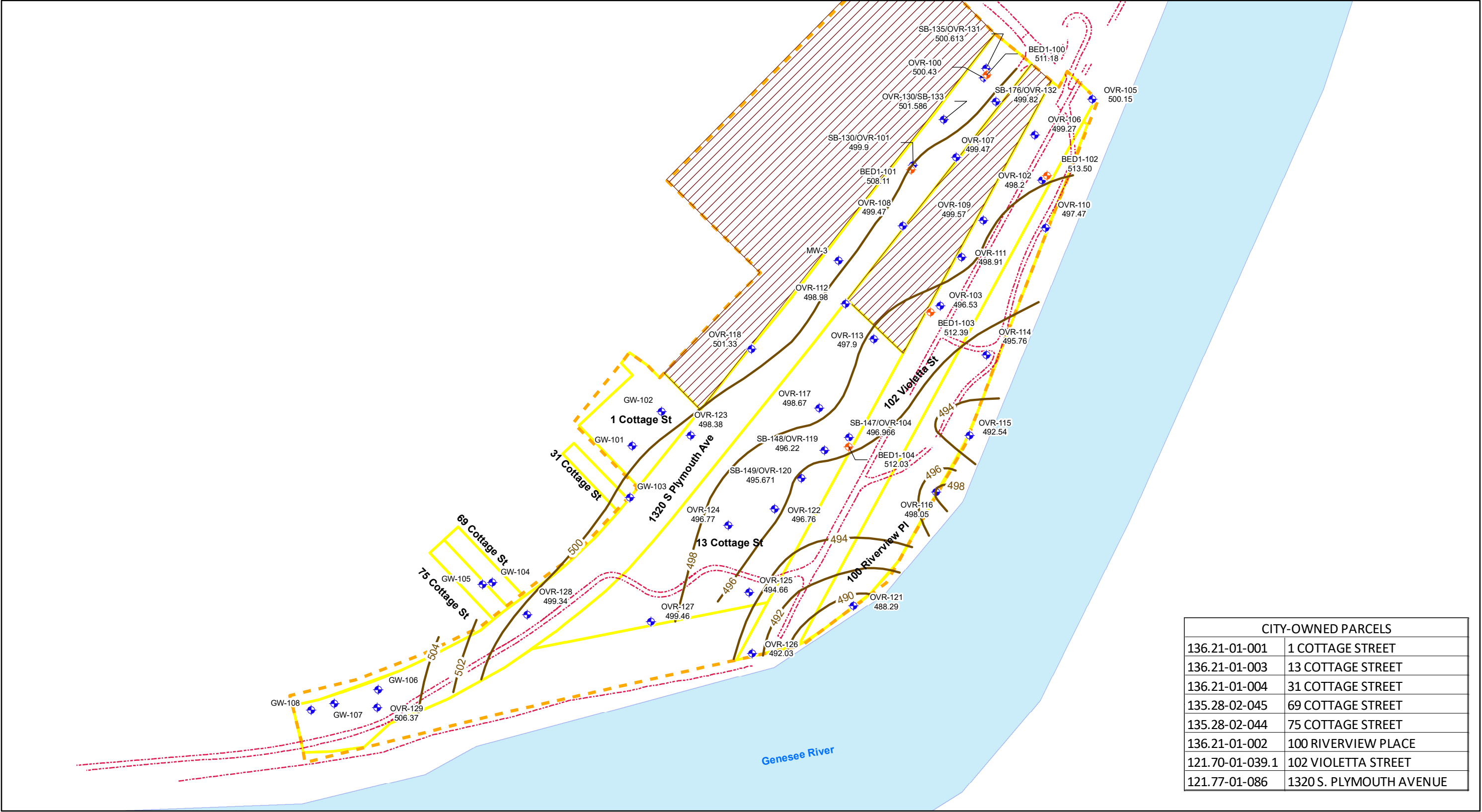
CROSS SECTIONS

O'BRIEN & GERE ENGINEERS, INC.

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

LEGEND

- BEDROCK WELL
- OVERBURDEN MONITORING WELL
- BEDROCK CONTOUR
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM
 REMEDIAL INVESTIGATION REPORT
 PORTION OF FORMER VACUUM OIL REFINERY
 1, 13, 31, 69 AND 75 COTTAGE STREET;
 100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
 AND PORTION OF 1320 S. PLYMOUTH AVENUE
 ROCHESTER, NEW YORK



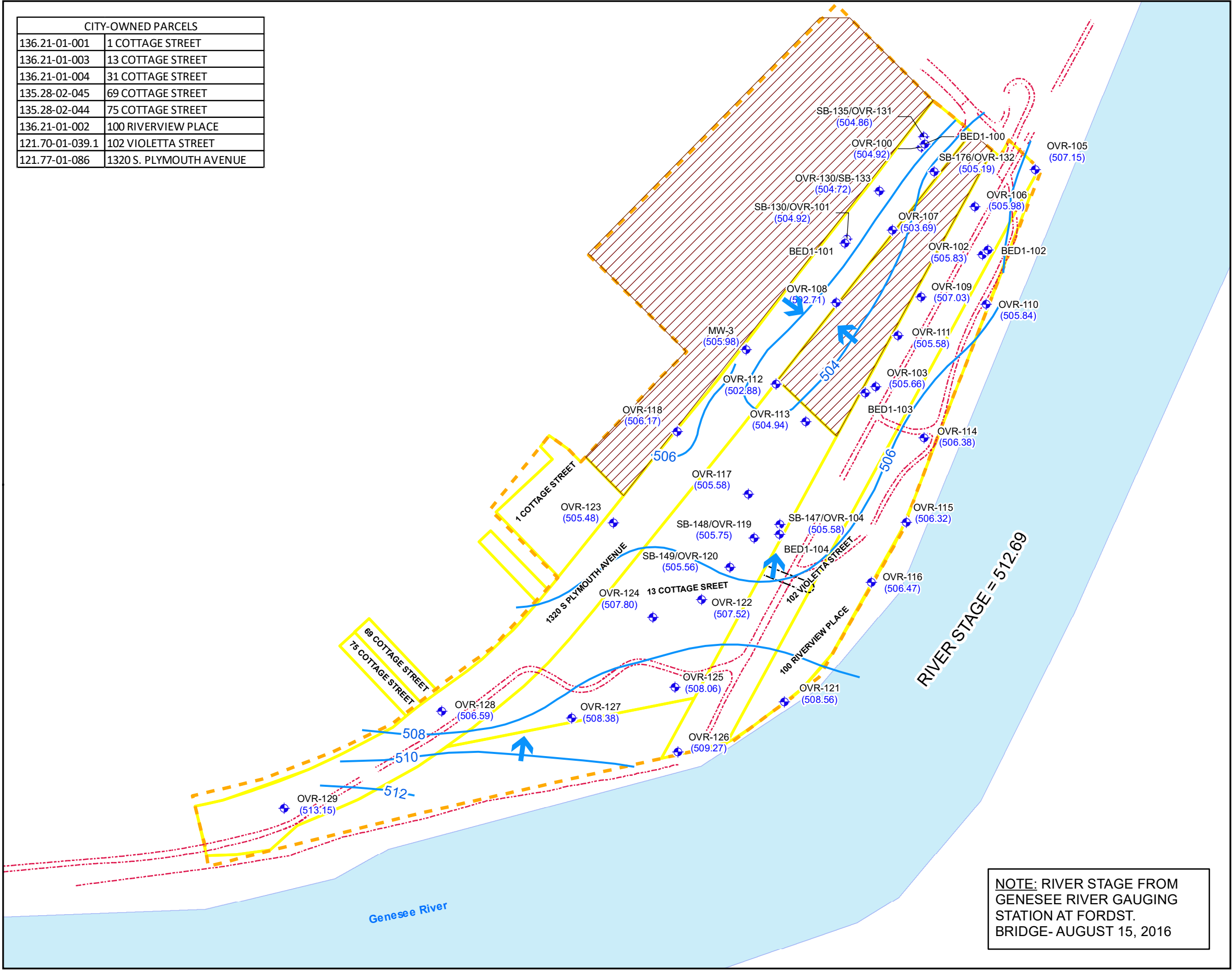
BEDROCK SURFACE ELEVATION



O'BRIEN & GERE ENGINEERS, INC.

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MAY 2019

FIGURE 7



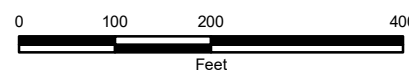
LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL
REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

OVERBURDEN GROUNDWATER
ELEVATION CONTOURS -
AUGUST 2016



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MAY 2019



O'BRIEN & GERE ENGINEERS, INC.

FIGURE 8

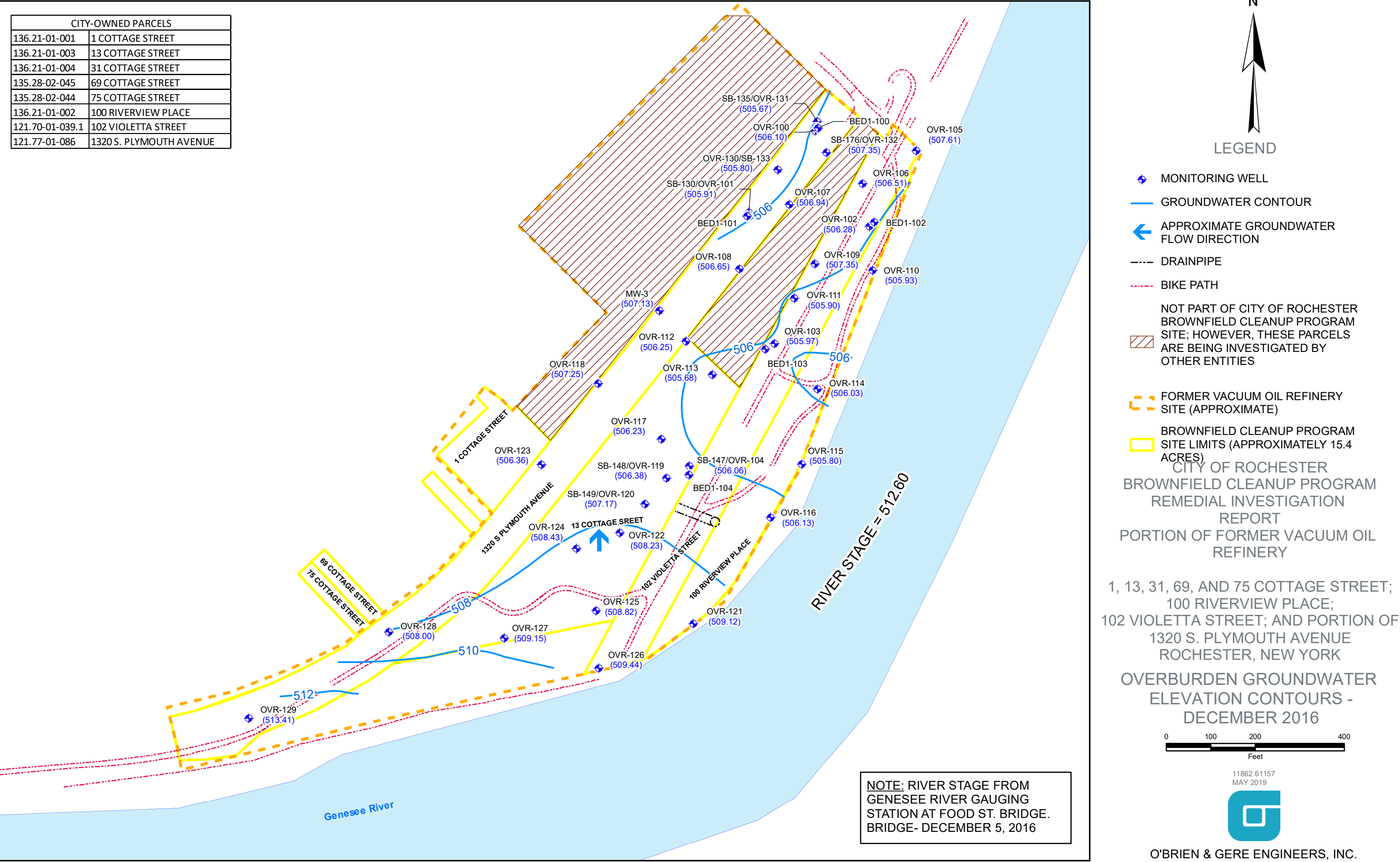


FIGURE 9

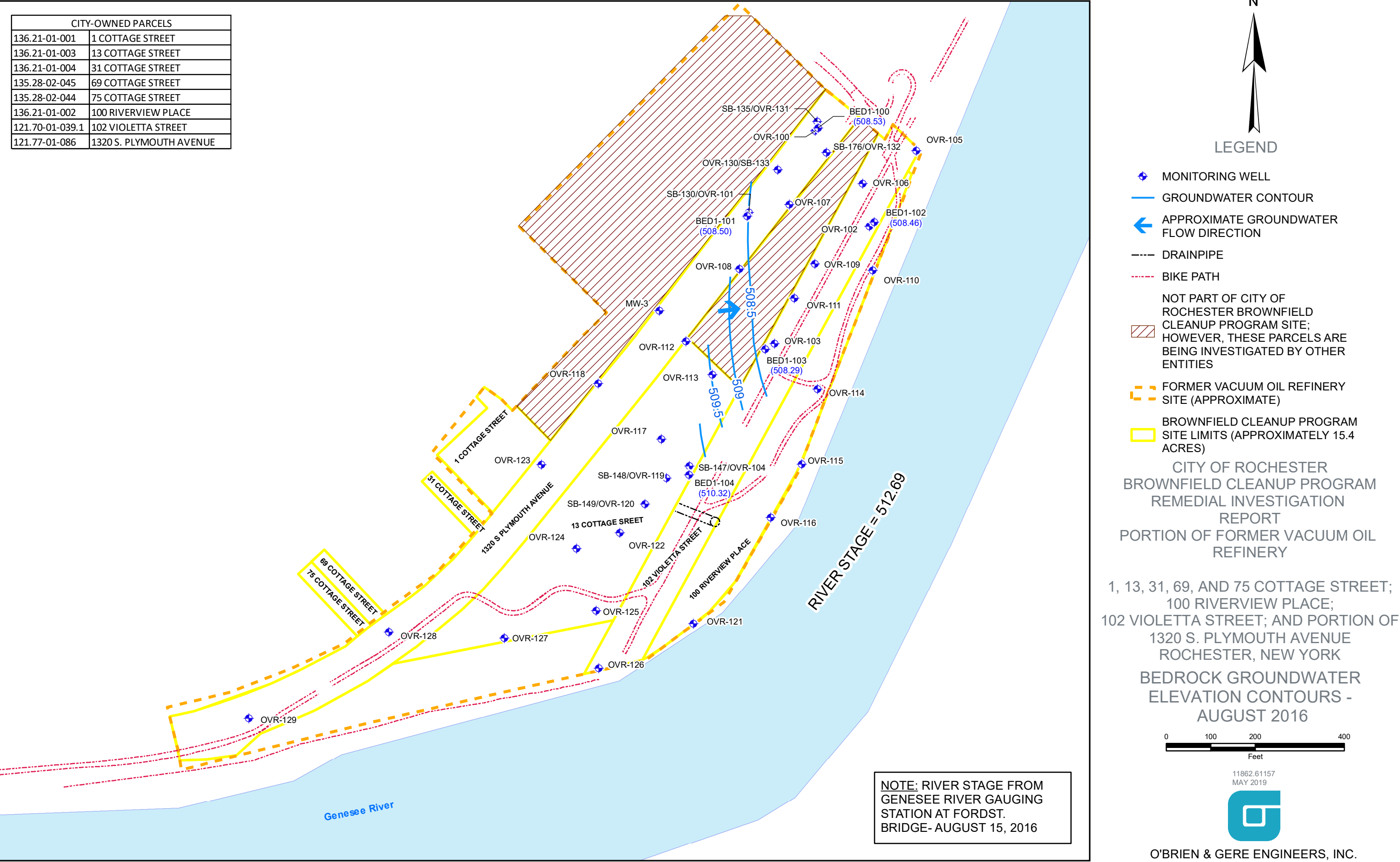


FIGURE 10

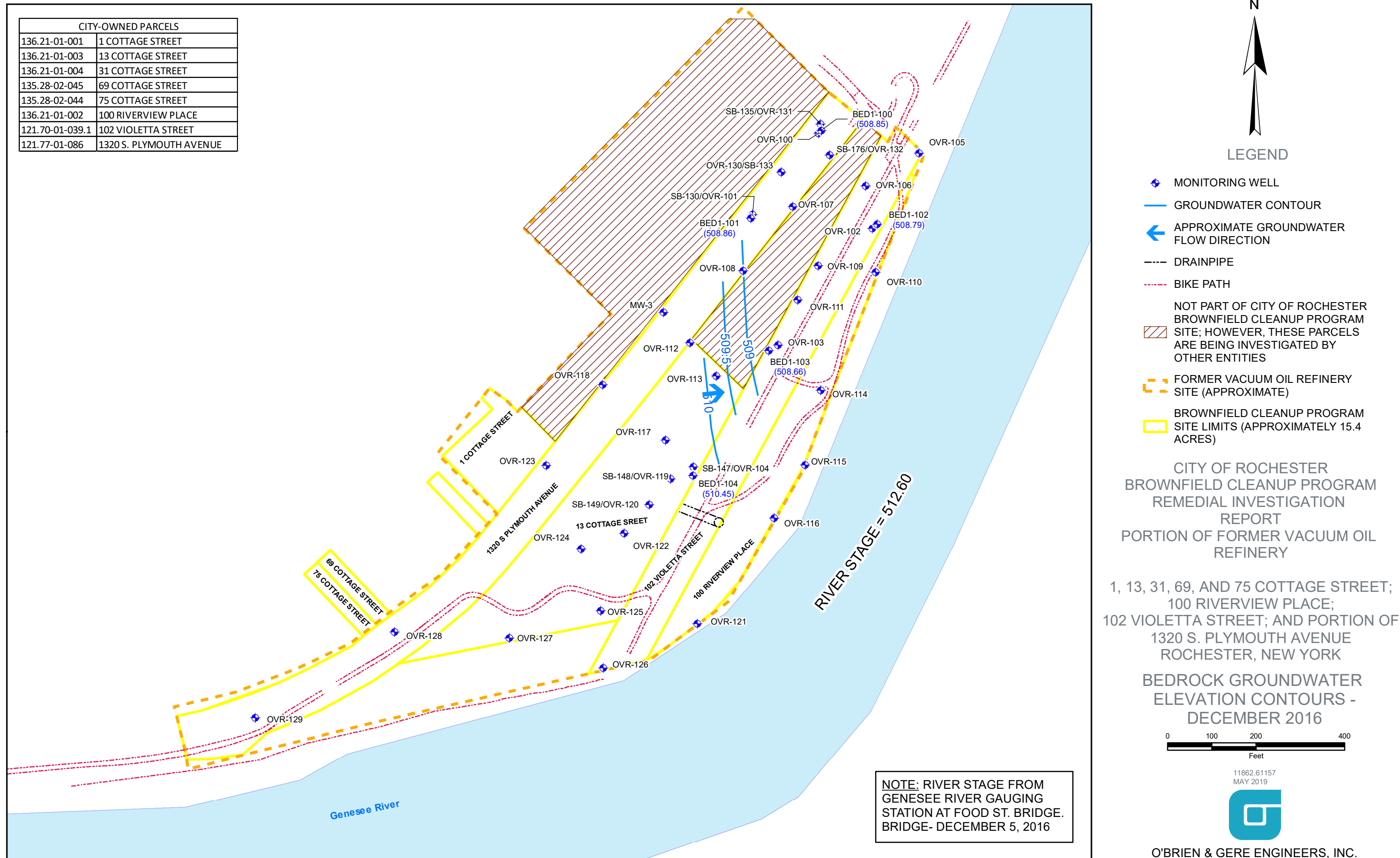


FIGURE 11A



FIGURE 11B

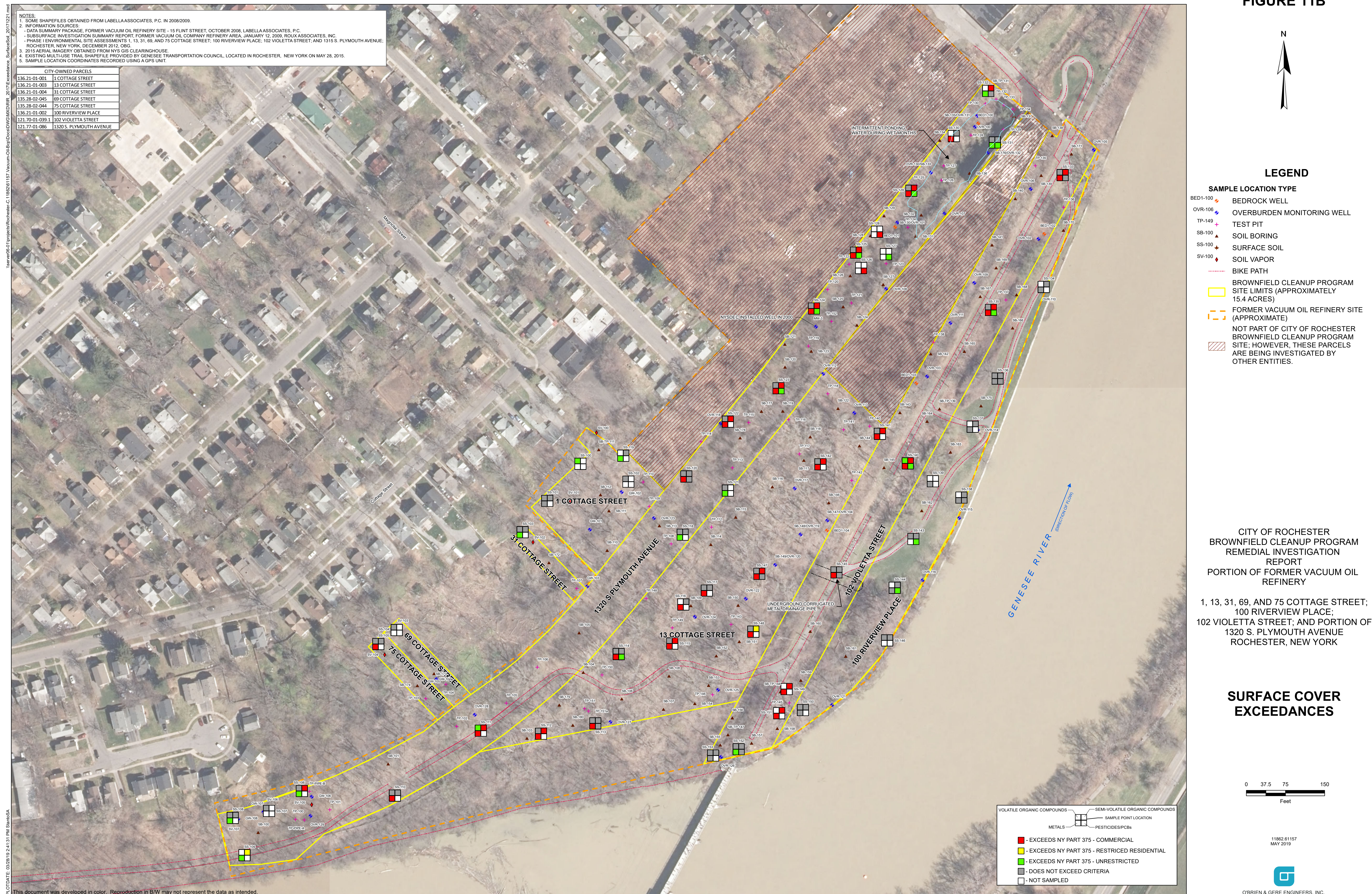


FIGURE 12



N

LEGEND

SAMPLE LOCATION TYPE

★ SURFACE SOIL

SVOC CONCENTRATION

● NON DETECT

● <1 PPM

● 1-10 PPM

● 10-100 PPM

● 100-250 PPM

● 250-500 PPM

● >500 PPM

— BIKE PATH

--- DRAINPIPE

NOT PART OF CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
SITE; HOWEVER, THESE PARCELS
ARE BEING INVESTIGATED BY
OTHER ENTITIES.

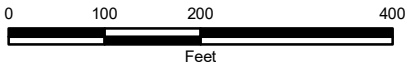
FORMER VACUUM OIL REFINERY SITE
(APPROXIMATE)

BROWNFIELD CLEANUP PROGRAM
SITE LIMITS (APPROXIMATELY
15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION WORK PLAN
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVerview PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

TOTAL SVOCs
SURFACE SOIL



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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVerview PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

FIGURE 13



LEGEND

SAMPLE LOCATION TYPE

- BED1-100 BEDROCK WELL
- OVR-106 OVERBURDEN MONITORING WELL
- TP-149 TEST PIT
- SB-100 SOIL BORING
- SS-100 SURFACE SOIL
- BIKE PATH
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIATION INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL
REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SUBSURFACE SOIL
EXCEEDANCES

0 37.5 75 150
Feet

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O'BRIEN & GERE ENGINEERS, INC.

FIGURE 14



FIGURE 14

LEGEND

SAMPLE LOCATION TYPE

- MONITORING WELL
- SOIL BORING
- TEST PIT

VOC CONCENTRATION

- NON DETECT
- <1 PPM
- 1 - 10 PPM
- 10 - 100 PPM
- 100 - 250 PPM
- 250 - 500 PPM
- >500 PPM

BIKE PATH
DRAINPIPE

NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)

BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

**CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY**

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

**TOTAL VOCs
SUBSURFACE SOIL**

0 100 200 400
Feet

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MAY 2019

O'BRIEN & GERE ENGINEERS, INC.

FIGURE 15

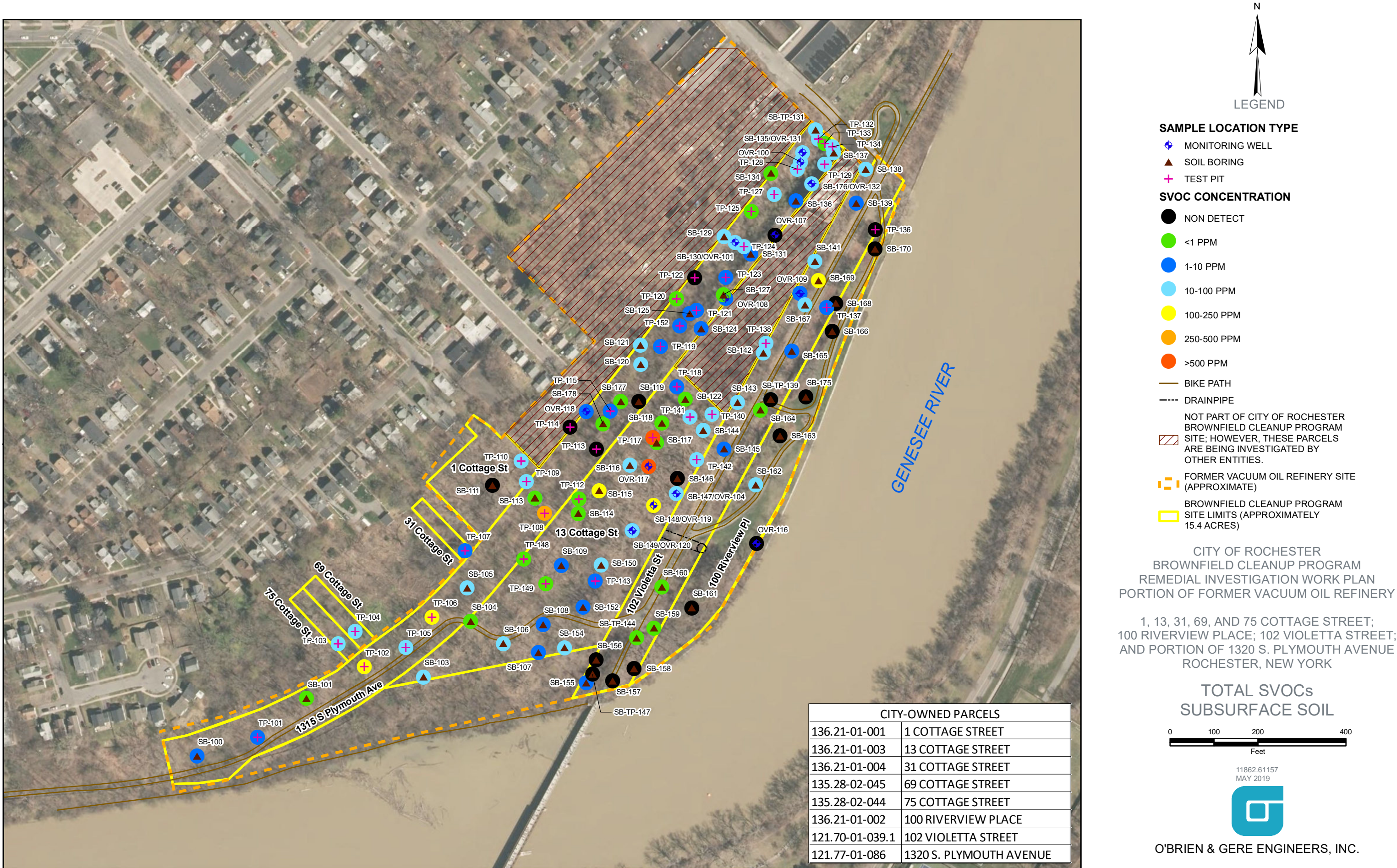
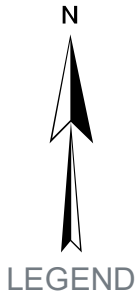
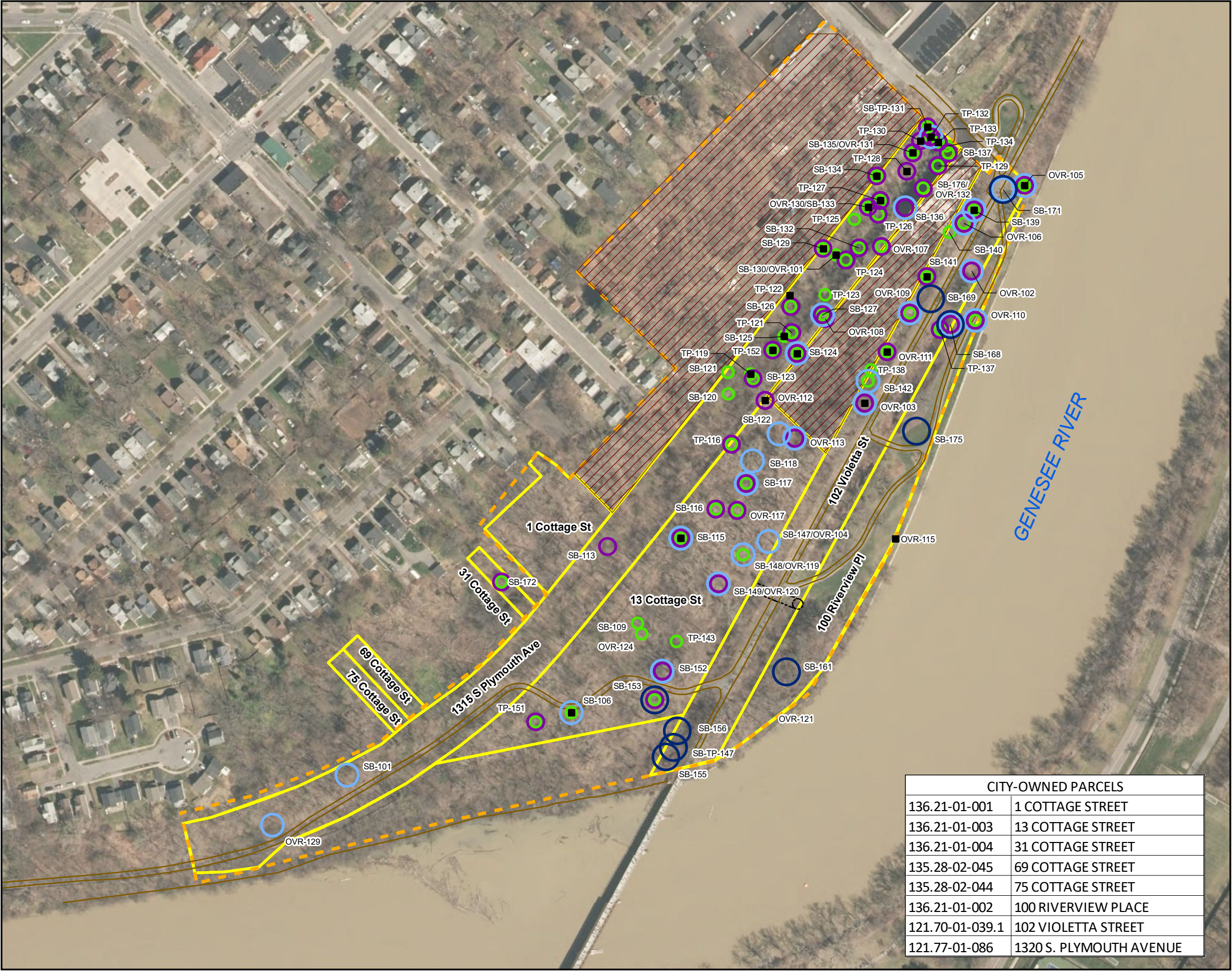


FIGURE 16



SUBSURFACE ODOR

- ODOR PRESENT 1ft - 7ft
- ODOR PRESENT 7ft - 10ft
- ODOR PRESENT 10ft - 16ft
- ODOR PRESENT >16ft

- SHEEN OR STAINING
- BIKE PATH
- DRAINPIPE

NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

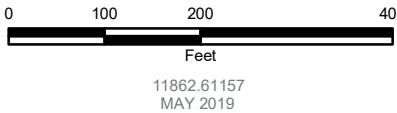
FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)

BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION WORK PLAN
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

FIELD OBSERVATIONS



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MAY 2019



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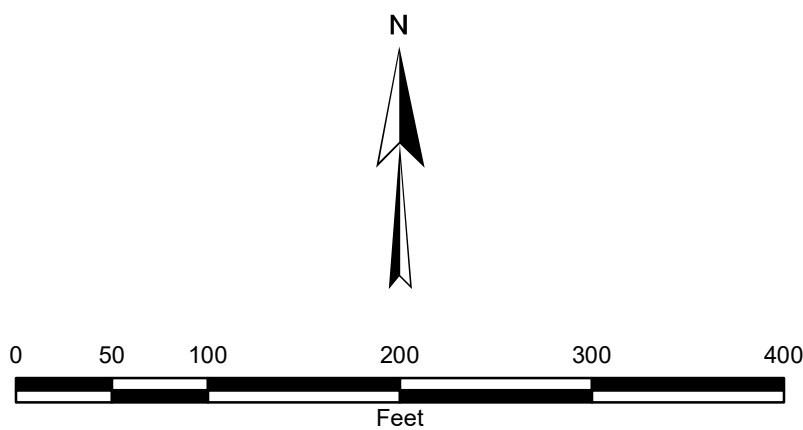


LEGEND

SAMPLE LOCATION TYPE	MAX PID VALUE (ppm)	----- DRAINPIPE
◆ BEDROCK WELL	● < 10	----- BIKE PATH
◆ OVERBURDEN MONITORING WELL	● 10 < X < 50	NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS WERE INVESTIGATED BY OTHER ENTITIES.
◆ TEST PIT	● 50 < X < 100	FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
▲ SOIL BORING	● > 100; >100	
★ SURFACE SOIL		

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK



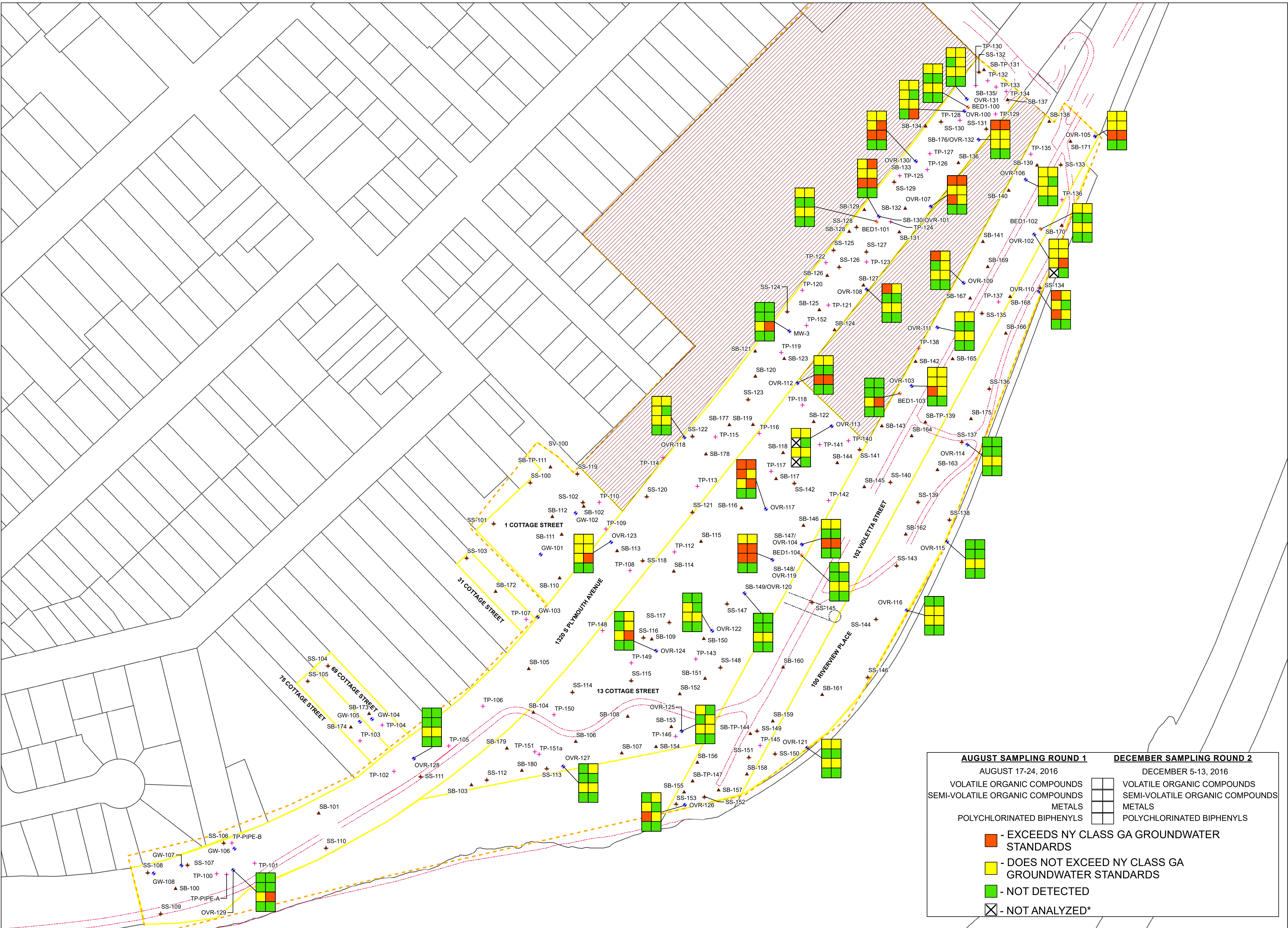
PID SCREENING

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LEGEND

SAMPLE LOCATION TYPE

- BEDROCK WELL
- OVERBURDEN MONITORING WELL
- TEST PIT
- SOIL BORING
- SURFACE SOIL

- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- MONROE COUNTY PARCEL BOUNDARY

NOTES:
-GW-101 THROUGH GW-108 ANALYTICAL RESULTS ARE NOT INCLUDED IN THIS FIGURE. PLEASE SEE RI REPORT FOR MORE INFORMATION.
-DATA DOES NOT INCLUDE VOC/SVOC TICKS.
- DATA WAS NOT ANALYZED DUE TO BROKEN BOTTLEWARE.

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL REFINERY
1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION
OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

GROUNDWATER EXCEEDANCES
AUGUST 2016 AND DECEMBER 2016

AUGUST SAMPLING ROUND 1		DECEMBER SAMPLING ROUND 2	
AUGUST 17-24, 2016		DECEMBER 5-13, 2016	
VOLATILE ORGANIC COMPOUNDS		VOLATILE ORGANIC COMPOUNDS	
SEMI-VOLATILE ORGANIC COMPOUNDS		SEMI-VOLATILE ORGANIC COMPOUNDS	
METALS		METALS	
POLYCHLORINATED BIPHENYLS		POLYCHLORINATED BIPHENYLS	
- EXCEEDS NY CLASS GA GROUNDWATER STANDARDS			
- DOES NOT EXCEED NY CLASS GA GROUNDWATER STANDARDS			
- NOT DETECTED			
- NOT ANALYZED*			

0 37.5 75 150
Feet

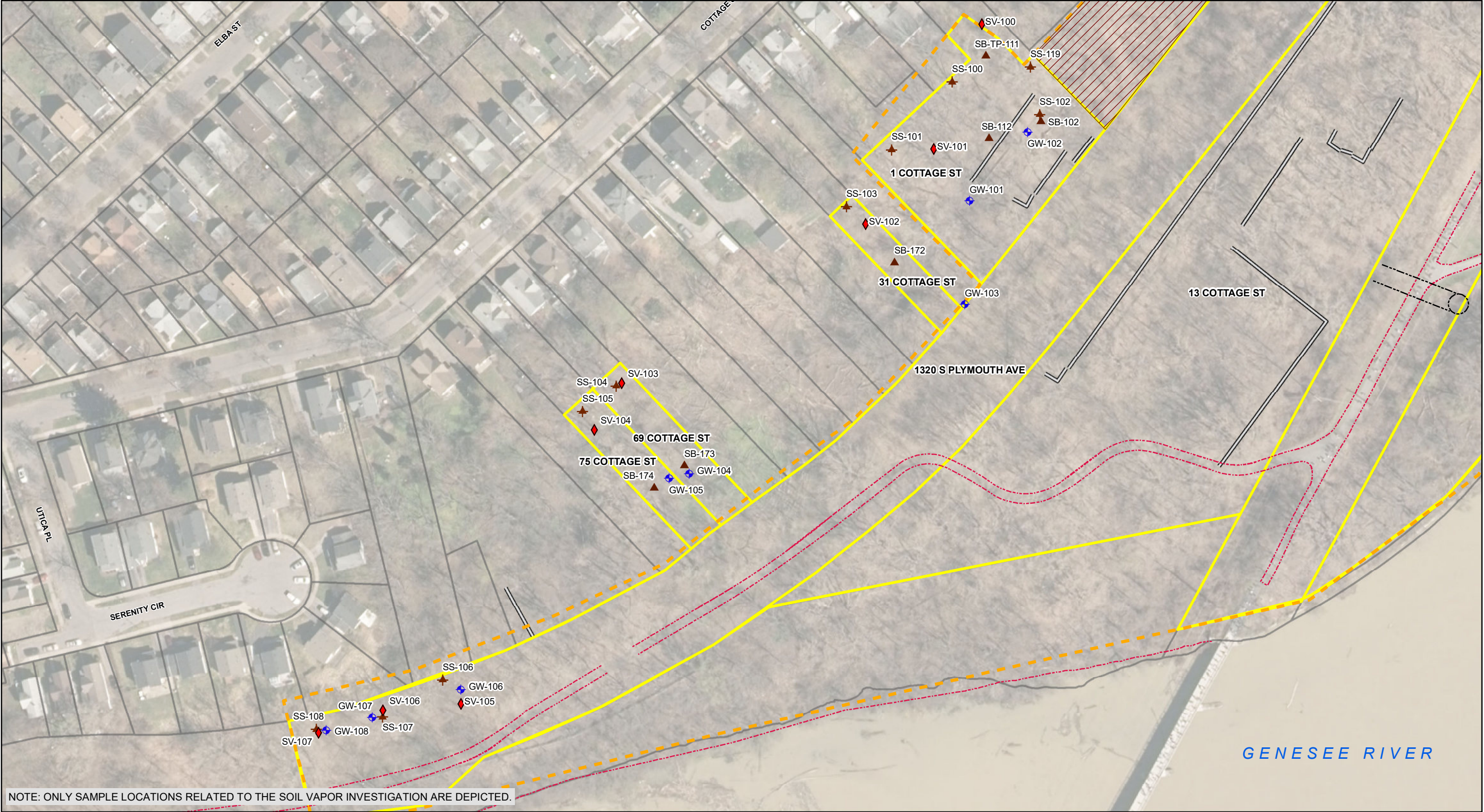
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LEGEND

- OVERBURDEN MONITORING WELL
- SOIL BORING
- SURFACE SOIL
- SOIL VAPOR
- BIKE PATH
- WALL FOUNDATION
- CITY TAX PARCEL
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

CITY OF ROCHESTER - BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT - PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SOIL VAPOR
SAMPLE LOCATIONS

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MAY 2019

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