

115 Tabor Road  
Morris Plains, NJ 07950  
Tel: 973-455-4131  
Fax: (973) 695-2450

October 30, 2015

Mr. Edward Hammerberg  
Technical Specialist/RCE Supervisor  
Waste Division and Utilization Program  
Maryland Department of the Environment  
1800 Washington Boulevard, Suite 645  
Baltimore, MD 21230

Subject: Transmittal of Quarterly Site Progress Report, Third Quarter 2015  
2000 Race Street Site, Baltimore, Maryland

Dear Mr. Hammerberg:

Please find attached the Third Quarter 2015 Site Progress Report for the 2000 Race Street Site, Baltimore, Maryland. This document is provided on behalf of Honeywell and the Mayor and City Council of Baltimore pursuant to the requirements of Section III.A of the 2000 Race Street Site Consent Order (effective date of May 23, 2007).

If you have any questions or require additional information, please do not hesitate to contact me at 973-455-4131.

Very truly yours,

**HONEYWELL INTERNATIONAL INC.**



Christopher M. French, R.G., C.E.G.  
Manager, Remediation & Evaluation Services

Attachment

cc: Mr. Ed Dexter (MDE)  
Mr. Michael Daneker (Arnold & Porter)  
Ms. Dawn Lettman (City of Baltimore)  
Mr. Art Shapiro (City of Baltimore)  
Mr. Vivaldi Nguyen (City of Baltimore)

# Third Quarter 2015 Race Street Quarterly Site Progress Report, 2000 Race Street, Baltimore, Maryland

*Prepared for*

Honeywell International Inc.  
Mayor and City Council of Baltimore, Maryland

October 2015



CH2M HILL Engineers, Inc.  
2411 Dulles Corner Park Suite 500  
Herndon, VA 20171

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# Third Quarter 2015 Race Street Quarterly Site Progress Report, 2000 Race Street, Baltimore, Maryland

## 1. Introduction

Honeywell International Inc. (Honeywell) and the Mayor and City Council of Baltimore (City) are submitting this Quarterly Site Progress Report for the 2000 Race Street Site (Site) pursuant to the May 23, 2007, Administrative Consent Order (Consent Order) between the Maryland Department of the Environment (MDE), Honeywell, and the City. Quarterly Site Progress Reports will be submitted to MDE for the duration of the Consent Order. As specified within Section III.F of the Consent Order, the reports will identify the following information:

- Work completed and documents submitted to MDE in the preceding quarter;
- A schedule and submittals for the upcoming quarter; and
- Any delays, modifications, or changes anticipated in the upcoming quarter.

This report covers Site-related activities conducted under the Consent Order during the second quarter of 2015, from July 1, 2015, through September 30, 2015.

The Site is located at 2000 Race Street, in Baltimore, Maryland (ZIP Code 21230). It occupies approximately 10.3 acres and is bounded on the north by the Baltimore Gas and Electric (BGE) Spring Gardens facility, on the south by Swann Park, on the east by Race Street, and on the west by the Middle Branch of the Patapsco River. In addition, two elevated spans of Interstate 95 (I-95) oriented from east to west overlie the Site on the northern half of the property. A chain-link security fence is present at the perimeter of the Site. The Site has no onsite building structures and is currently vacant.

Controlled hazardous substances (CHS) are contained on the Site and covered with an engineered cap consisting of the following materials from top to bottom: asphalt, gravel base, and compacted clay. Cap maintenance is ongoing. Additional information regarding the Site is provided in several documents, including the May 23, 2007, Consent Order; the "Site Characterization Work Plan," dated September 2007; the "Site Characterization Report," dated September 2009; the "Near Shore Investigation Report," dated December 2009; and the "Interim Remedial Measures Assessment Investigation and Pilot Test Report," dated July 2012.

## 2. Quarter in Review

Site-related activities performed during the third quarter of 2015 include the following:

- July 1: Monthly Site status call with MDE;
- July 14: Bridge monitoring equipment reinstalled;
- July 23 Monthly Site status inspection (Appendix A);
- August 5: Monthly Site status call with MDE;
- August 20: Monthly Site status inspection (Appendix A);
- September 9: Monthly Site status call with MDE; and
- September 18: Monthly Site status inspection (Appendix A).

Interim remedial measure treatability evaluations progressed during the quarter. Maintenance work on the I-95 Bridge continued during the quarter.

### 3. Upcoming Work and Submittals during the Fourth Quarter of 2015

The following activities and submittals are anticipated to occur in the upcoming quarter:

- October, November, December: Conduct monthly Site status inspections and participate in monthly Site status calls with MDE;
- Perform quarterly inclinometer readings;
- Submit the third quarter 2015 site status report to MDE; and
- Complete IRM treatability evaluations and prepare report.

### 4. Schedule

A schedule of Consent Order activities anticipated during the fourth quarter of 2015 is provided below.

Milestone	Anticipated Date
<b><i>October 2015</i></b>	
Perform monthly Site status inspection	10-22-15
Submit second quarter 2015 Site Status Report	10-30-15
<b><i>November 2015</i></b>	
Perform monthly Site status inspection	TBD
Submit Pilot Test Report	TBD
<b><i>December 2015</i></b>	
Perform monthly Site inspection	TBD
Perform quarterly inclinometer readings	TBD

Appendix A  
Site Inspection Reports

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	23-Jul-15
Title:	Environmental Engineer	Date of Last Inspection:	18-Jun-15
Organization:	CH2M HILL	Weather:	Hot, sunny

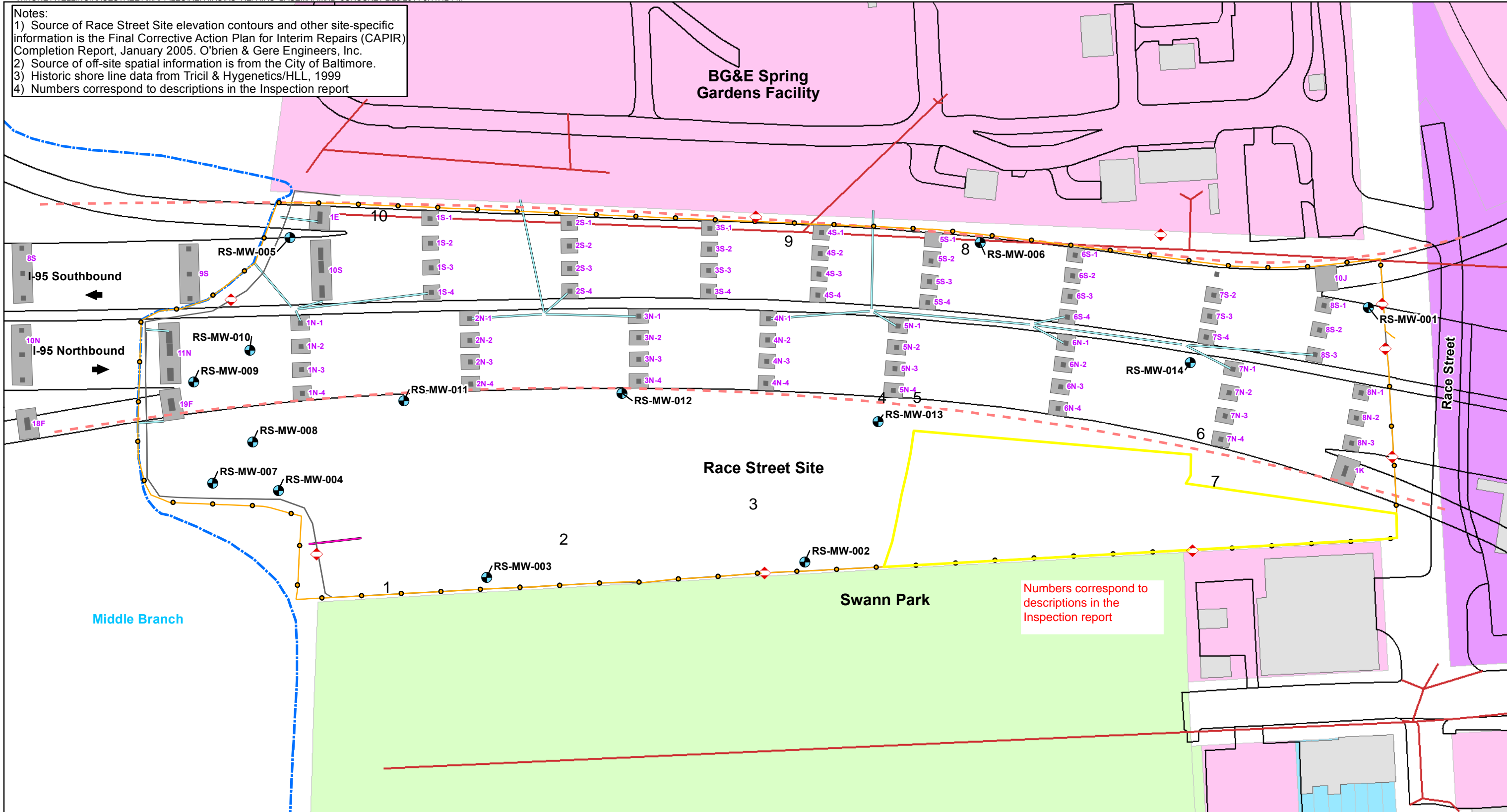
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>1. General</b>				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	4,5,6: Vegetation between pier footing and asphalt.	None	NA	Vegetation to be treated as part of site maintenance performed by City.
Inspect site for presence of vegetation. Identify estimated amount and location of vegetation via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>2. Interstate 95 Footings and Joints</b>				
Inspect around pier footings for settlement. Identify settlement off-set from grade and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect around pier footings for joint failure. Identify location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>3. Engineered Cap</b>				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect cap for holes. Identify number of holes, width and depth, and location via description of on Site Plan (attach to Monthly Site Inspection Checklist)	10: Animal burrow at the top of the slope.	None	NA	Evaluate the area for future surface cover maintenance.
Inspect cap for cracks less than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	2,3,7: Cracks with vegetation.	None	NA	City performs periodic site maintenance including herbicide treatment of vegetation. Cracks to be addressed as part of future surface cover maintenance.
Inspect cap for cracks greater than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	1: Cracks with vegetation growth along fence and up slope. 8,9: Cracks with vegetation.	None	NA	City performs periodic site maintenance including herbicide treatment of vegetation. Cracks to be addressed as part of future surface cover maintenance.
Inspect cap for any signs of ponding of water	None	None	NA	NA
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA
<b>4. Fence</b>				

**2000 Race Street  
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine if there is any erosion compromising the integrity of the fence	None	None	NA	NA
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage	None	None	NA	NA
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	None	None	NA	NA
Inspect fence to determine if there is any burrowing beneath fence	None	None	NA	NA
Identify any other observations related to the condition of the fence and potential for fence damage (e.g., points of weakness, corrosion)	None	None	NA	NA
<b>5. Aboveground Stormwater Conveyance System</b>				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
<b>6. Vandalism</b>				
Inspect site for any vandalism including any dumped material on-site and damage to monitoring wells	None	None	NA	NA
Identify any other observations related to vandalism on the site	None	None	NA	NA
<b>7. Signage</b>				
Inspect warning signs on exterior perimeter of fence to determine condition and readability. Identify number of signs removed/damaged/unreadable and locations via description or Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>8. Miscellaneous Items</b>				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Jim Leizear of MDE, and Andrew Hofert and Vivaldi Nguyen of the City of Baltimore Department of Public Work were onsite for the monthly site visit. Workers with J.B. Fay were onsite for bridge maintenance work along the west side of the site.			
Other Comments/Observations?	None			



**Notes:**  
 1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'Brien & Gere Engineers, Inc.  
 2) Source of off-site spatial information is from the City of Baltimore.  
 3) Historic shore line data from Tricil & Hygenetics/HLL, 1999  
 4) Numbers correspond to descriptions in the Inspection report



Numbers correspond to descriptions in the Inspection report

<b>Legend</b>		
<ul style="list-style-type: none"> <li> Warning Signs</li> <li> Monitoring Well Locations</li> <li> Edge of Pavement</li> <li> Approximate Limits of I-95 Former Below</li> <li> Ground Stormwater System (Abandoned)</li> <li> Below Ground Stormwater System</li> </ul>	<ul style="list-style-type: none"> <li> Existing Shoreline</li> <li> Fence/Approximate Property Boundary and Limit of Engineered Cap</li> <li> Fence Installed on Jersey Barriers</li> <li> Baltimore Stormwater Pipe</li> <li> Commercial</li> <li> Exempt Commercial</li> <li> Industrial</li> <li> Residential</li> </ul>	<ul style="list-style-type: none"> <li> Buildings</li> <li> Concrete Column</li> <li> Concrete Footer</li> </ul>

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

July 23, 2015

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	20-Aug-15
Title:	Environmental Engineer	Date of Last Inspection:	23-Jul-15
Organization:	CH2M HILL	Weather:	Hot, overcast

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>1. General</b>				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	7,10,11: Vegetation between pier footing and asphalt.	None	NA	Vegetation to be treated as part of site maintenance performed by City.
Inspect site for presence of vegetation. Identify estimated amount and location of vegetation via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>2. Interstate 95 Footings and Joints</b>				
Inspect around pier footings for settlement. Identify settlement off-set from grade and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect around pier footings for joint failure. Identify location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>3. Engineered Cap</b>				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect cap for holes. Identify number of holes, width and depth, and location via description of on Site Plan (attach to Monthly Site Inspection Checklist)	12: Animal burrow	None	NA	Evaluate the area for future surface cover maintenance.
Inspect cap for cracks less than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	1,3,4,5,6: Cracks with vegetation.	None	NA	Vegetation to be treated as part of site maintenance performed by City. Cracks to be evaluated for future surface cover maintenance.
Inspect cap for cracks greater than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	2, 9: Cracks with vegetation	None	NA	Vegetation to be treated as part of site maintenance performed by City. Cracks to be evaluated for future surface cover maintenance.
Inspect cap for any signs of ponding of water	None	None	NA	NA
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA
<b>4. Fence</b>				

**2000 Race Street  
Monthly Site Inspection Checklist**

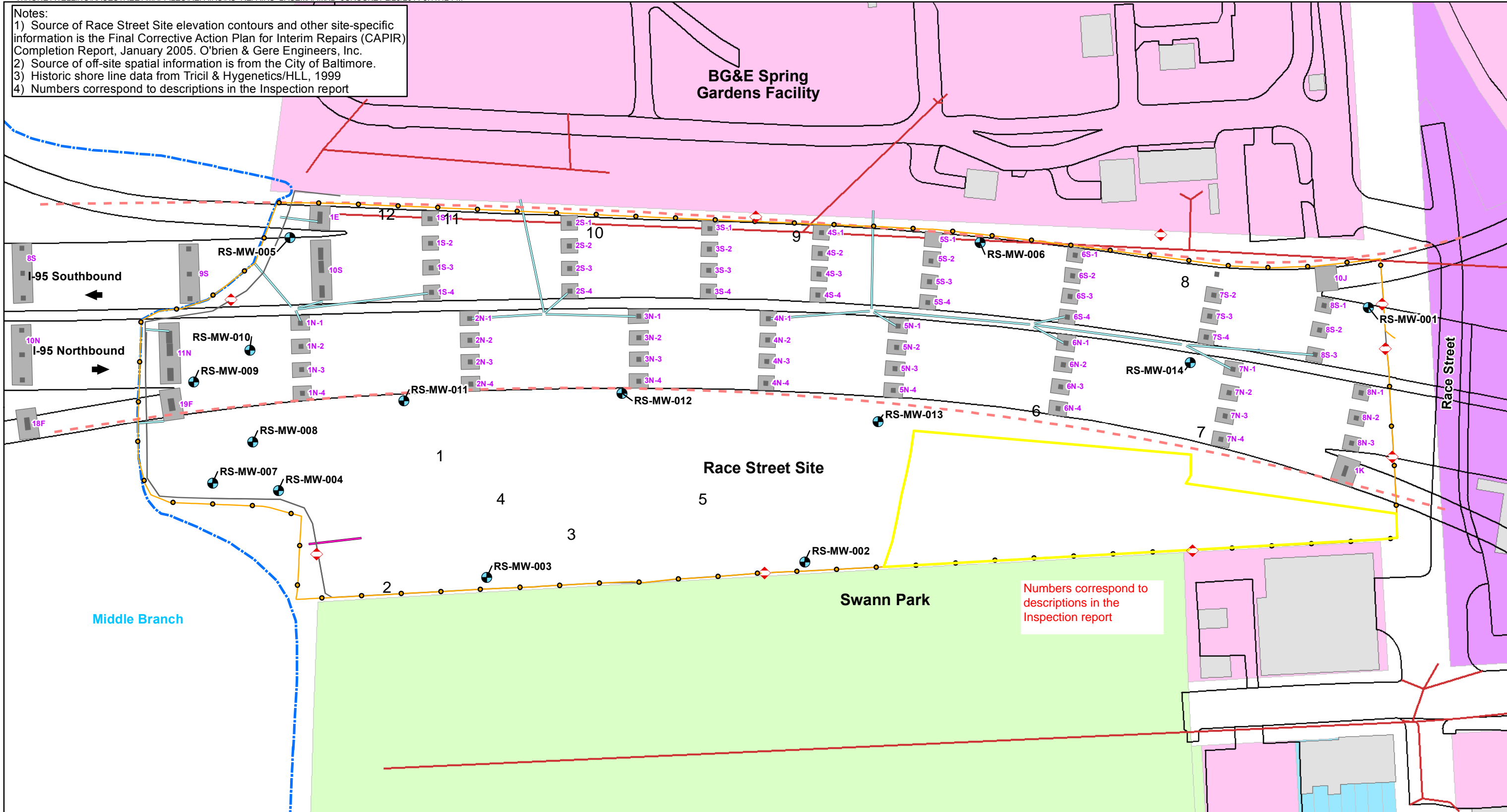
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine if there is any erosion compromising the integrity of the fence	None	None	NA	NA
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage	None	None	NA	NA
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	8: Vegetation along fence. Some vine growth on the fence.			Vegetation to be treated as part of site maintenance performed by City.
Inspect fence to determine if there is any burrowing beneath fence	None	None	NA	NA
Identify any other observations related to the condition of the fence and potential for fence damage (e.g., points of weakness, corrosion)	None	None	NA	NA
<b>5. Aboveground Stormwater Conveyance System</b>				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
<b>6. Vandalism</b>				
Inspect site for any vandalism including any dumped material on-site and damage to monitoring wells	None	None	NA	NA
Identify any other observations related to vandalism on the site	None	None	NA	NA
<b>7. Signage</b>				
Inspect warning signs on exterior perimeter of fence to determine condition and readability. Identify number of signs removed/damaged/unreadable and locations via description or Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>8. Miscellaneous Items</b>				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Jim Leizear of MDE and Andrew Hofert of the City of Baltimore Department of Public Work were onsite for the monthly site visit. Workers with J.B. Fay and additional MdTA contractors were onsite continuing construction activities on the west side of the site.			
Other Comments/Observations?	None			

**Notes:**  
 1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'Brien & Gere Engineers, Inc.  
 2) Source of off-site spatial information is from the City of Baltimore.  
 3) Historic shore line data from Tricil & Hygenetics/HLL, 1999  
 4) Numbers correspond to descriptions in the Inspection report

**BG&E Spring Gardens Facility**

**Race Street Site**

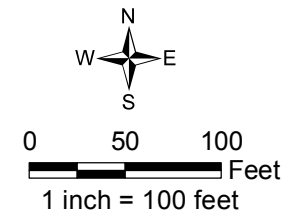
**Swann Park**



Numbers correspond to descriptions in the Inspection report

**Legend**

- Warning Signs
- Monitoring Well Locations
- Edge of Pavement
- Approximate Limits of I-95 Former Below
- Ground Stormwater System (Abandoned)
- Below Ground Stormwater System
- Existing Shoreline
- Fence/Approximate Property Boundary and Limit of Engineered Cap
- Fence Installed on Jersey Barriers
- Baltimore Stormwater Pipe
- Commercial
- Exempt Commercial
- Industrial
- Residential
- Buildings
- Concrete Column
- Concrete Footer



Monthly Inspection Map  
 Race Street Site  
 Baltimore, MD

August 20, 2015



**2000 Race Street  
Monthly Site Inspection Checklist**

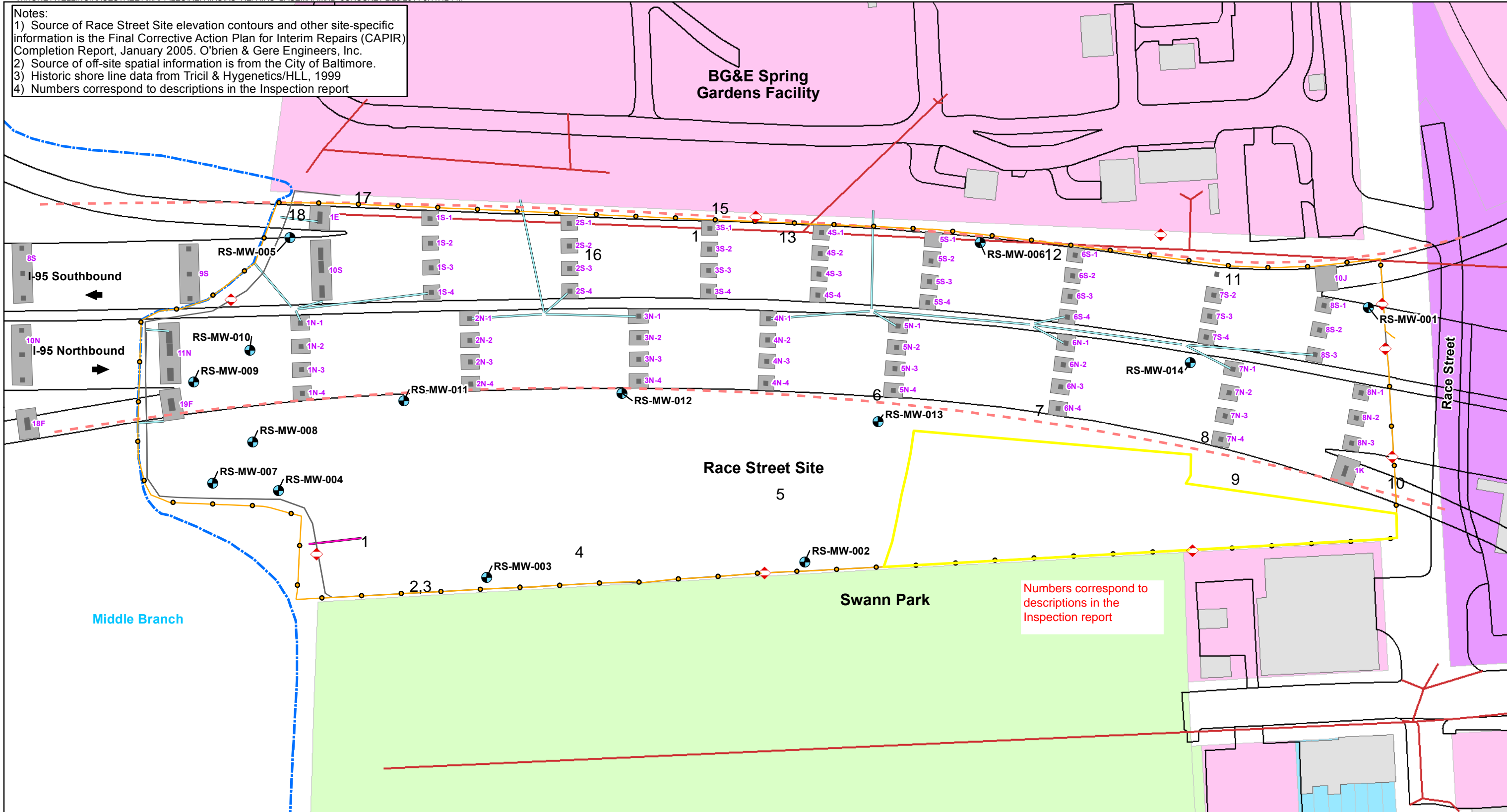
Inspector:	Bill Morris	Date of Inspection:	24-Sep-15
Title:	Environmental Engineer	Date of Last Inspection:	20-Aug-15
Organization:	CH2M HILL	Weather:	Sunny, warm

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>1. General</b>				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	6,7,8,14, 16: Vegetation between pier footing and asphalt.	City notified	NA	Vegetation to be treated as part of site maintenance performed by City.
Inspect site for presence of vegetation. Identify estimated amount and location of vegetation via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>2. Interstate 95 Footings and Joints</b>				
Inspect around pier footings for settlement. Identify settlement off-set from grade and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect around pier footings for joint failure. Identify location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>3. Engineered Cap</b>				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect cap for holes. Identify number of holes, width and depth, and location via description of on Site Plan (attach to Monthly Site Inspection Checklist)	17: Animal burrow at the top of the slope 18: Hole in the asphalt near the pier footing.	None	NA	Evaluate the area for future surface cover maintenance.
Inspect cap for cracks less than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	4,5,9,13: Cracks with vegetation.	City notified	NA	Vegetation to be treated as part of site maintenance performed by City.
Inspect cap for cracks greater than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	1: Cracks around inlet with vegetation growth. 2: Cracks with vegetation growth along fence and up slope. 12: Cracks with vegetation.	City notified	NA	Vegetation to be treated as part of site maintenance performed by City. Cracks to be evaluated for future surface cover maintenance.
Inspect cap for any signs of ponding of water	None	None	NA	NA
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA

**2000 Race Street  
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>4. Fence</b>				
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine if there is any erosion compromising the integrity of the fence	15: Localized erosion area	None	NA	Evaluate the area for future surface cover maintenance.
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage				
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	3, 10, 11: Vegetation along fence. Some vine growth on the fence.	City notified	NA	Vegetation to be treated as part of site maintenance performed by City.
Inspect fence to determine if there is any burrowing beneath fence	None	None	NA	NA
Identify any other observations related to the condition of the fence and potential for fence damage (e.g., points of weakness, corrosion)	None	None	NA	NA
<b>5. Aboveground Stormwater Conveyance System</b>				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
<b>6. Vandalism</b>				
Inspect site for any vandalism including any dumped material on-site and damage to monitoring wells	None	None	NA	NA
Identify any other observations related to vandalism on the site	None	None	NA	NA
<b>7. Signage</b>				
Inspect warning signs on exterior perimeter of fence to determine condition and readability. Identify number of signs removed/damaged/unreadable and locations via description or Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
<b>8. Miscellaneous Items</b>				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Jim Leizear of MDE was onsite for the monthly site visit. Workers with J.B. Fay and additional MdTA contractors were onsite continuing construction for pile cap and pier column improvements near column 19F and 11N.			
Other Comments/Observations?	None			

**Notes:**  
 1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'Brien & Gere Engineers, Inc.  
 2) Source of off-site spatial information is from the City of Baltimore.  
 3) Historic shore line data from Tricil & Hygenetics/HLL, 1999  
 4) Numbers correspond to descriptions in the Inspection report



Numbers correspond to descriptions in the Inspection report

<b>Legend</b>		
◊ Warning Signs	Existing Shoreline	Buildings
● Monitoring Well Locations	Fence/Approximate Property Boundary and Limit of Engineered Cap	Concrete Column
— Edge of Pavement	Fence Installed on Jersey Barriers	Concrete Footer
- - - Approximate Limits of I-95 Former Below	Baltimore Stormwater Pipe	
— Ground Stormwater System (Abandoned)	Commercial	
— Below Ground Stormwater System	Exempt Commercial	
	Industrial	
	Residential	

0 50 100 Feet  
1 inch = 100 feet

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

September 24, 2015