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**Health, Safety, Environmental, Product Stewardship and Sustainability**  
115 Tabor Road  
Morris Plains, NJ 07950  
www.honeywell.com

January 29, 2019

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

**Re: Transmittal of Quarterly Site Progress Report, Fourth Quarter 2018, 2000 Race Street Site, Baltimore, Maryland**

Dear Mr. Hammerberg:

Please find attached the Fourth Quarter 2018 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 May 23, 2007.

If you have any questions or require additional information, please do not hesitate to contact me at 973-455-3302, or by e-mail at [Maria.Kaouris@Honeywell.com](mailto:Maria.Kaouris@Honeywell.com).

Sincerely,

Maria Kaouris  
Remediation Manager

Attachment

cc: Mr. Ed Dexter—MDE  
Mr. Al Simpkins—MDE  
Mr. Michael Daneker—Arnold & Porter  
Ms. Dawn Lettman—City of Baltimore  
Mr. Ravic Miller—City of Baltimore  
Mr. Christopher French—Honeywell

# FOURTH QUARTER 2018 RACE STREET QUARTERLY SITE PROGRESS REPORT

2000 RACE STREET  
BALTIMORE, MARYLAND

*Prepared for*

**Honeywell**

115 Tabor Road  
Morris Plains, New Jersey 07950

*Prepared by*

**JACOBS®**

Jacobs Engineering  
2411 Dulles Corner Park Suite #500  
Herndon, VA 20171

**JANUARY 2019**

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## 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 are required to include the following information:

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

This report covers Site-related activities conducted under the Consent Order during the fourth quarter of 2018, from October 1, 2018, through December 31, 2018.

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 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 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; the *Interim Remedial Measures Assessment Investigation and Pilot Test Report*, dated July 2012; and the *Supplemental Site Characterization Report (Former Arsenic Shed Area)*, dated February 2018.

## 2. Quarter in Review

Site-related activities performed during the fourth quarter of 2018 include the following:

- October 11: Public Informational meeting for the Post-Closure Controlled Hazardous Substance (CHS) permit application and the Corrective Measures Alternatives Analysis (CMAA) submission
- October 25: Monthly Site status inspection (Appendix A)
- October 30: Third Quarter 2018 Site Progress Report submitted to MDE
- November 1: Project Coordinator call with MDE
- November 19, 20, and 26: Semi-annual inclinometer and SAA data collected
- November 28: First-Half 2018 Bridge Monitoring Data Report submitted to MDE
- November 29: Monthly Site status inspection (Appendix A)
- December 5: Project Coordinator call with MDE
- December 20: Monthly site status inspection (Appendix A)

### 3. Upcoming Work and Submittals during the First Quarter of 2019

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

- Conduct monthly Site status inspections and participate in monthly Site status calls with MDE (October, November, and December)
- Submit the Fourth Quarter 2018 Site Progress report
- Perform quarterly Semi-annual Shape Accel Array (SAA)/inclinometer readings
- Submit revised Corrective Measures Alternatives Analysis (CMAA) and the Post-Closure CHS Permit Application to MDE
- Submit Second Half 2018 Bridge Monitoring Report to MDE

There are various actions that will be performed by the MDE related to finalizing Closure CHS Permit Application and CMAA, including issuing a Public Notice for the Post-Closure Permit and CMAA; preparing and issuing a Tentative Determination on the CHS Permit and CMAA; scheduling a public hearing on the Tentative Determination; and issuing the Final Post-Closure CHS permit. As these draft documents are being reviewed and revised, the schedule for these activities has not been finalized. However, it is anticipated that some of these activities will be performed at the end of Q1 2019 and/or during Q2 2019.

### 4. Schedule

A schedule of Consent Order activities anticipated during the first quarter of 2019 is provided below.

Milestone	Anticipated Date
<b>January 2019</b>	
Perform monthly site status inspection	1-9-19
Submit Q4 2018 Site Progress report	1-30-19
<b>February 2019</b>	
Perform monthly site status inspection	TBD
Perform quarterly SAA/inclinometer readings	TBD
<b>March 2019</b>	
Perform monthly Site Status inspection	TBD

**Appendix A**  
**Site Inspection Reports**

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	25-Oct-18
Title:	Environmental Engineer	Date of Last Inspection:	20-Sep-18
Organization:	CH2M HILL	Weather:	Cool, sunny

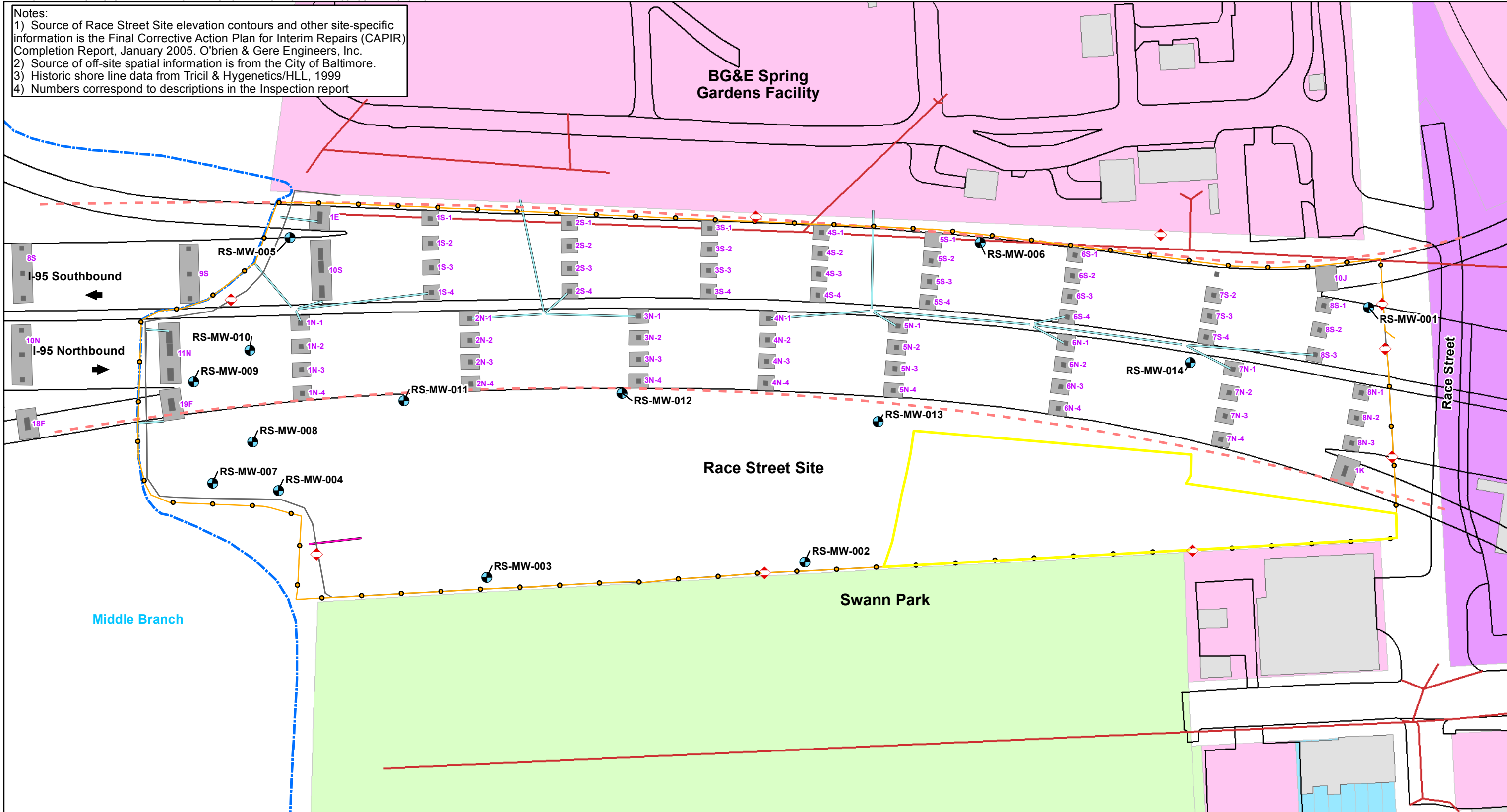
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>1. General</b>				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	6: Debris accumulation with vegetation growth	None	NA	Debris and vegetation to be addressed as part of scheduled site maintenance.
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
	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)	1: Vegetation growth through asphalt	None	NA	Vegetation to be addressed as part of scheduled site maintenance. Surface cover repairs to be made as part of scheduled site maintenance and cap repairs.
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).	5: Crack in asphalt with vegetation growth 4: Crack between pier footing and asphalt with vegetation growth	None	NA	Vegetation to be addressed as part of scheduled site maintenance. Surface cover repairs to be made as part of scheduled site maintenance and cap repairs.
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: Wide crack in asphalt with vegetation growth 7: Crack between pier footing and asphalt with vegetation growth	None	NA	Debris and vegetation to be removed as part of scheduled site maintenance. Surface cover repairs to be made as part of scheduled site maintenance and cap repairs.
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	3: Vegetation growth along fence	None	NA	Vegetation to be removed as part of scheduled site maintenance.
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	Ravic Miller with the City of Baltimore DOT was on-site for the monthly inspection.			
Other Comments/Observations?	8: Damage to well and bollards: Casing for well RS-MW-011 damaged as well as surrounding bollards to be repaired during 2019 cap repairs			



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



<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		

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

**2000 Race Street  
Monthly Site Inspection Checklist**

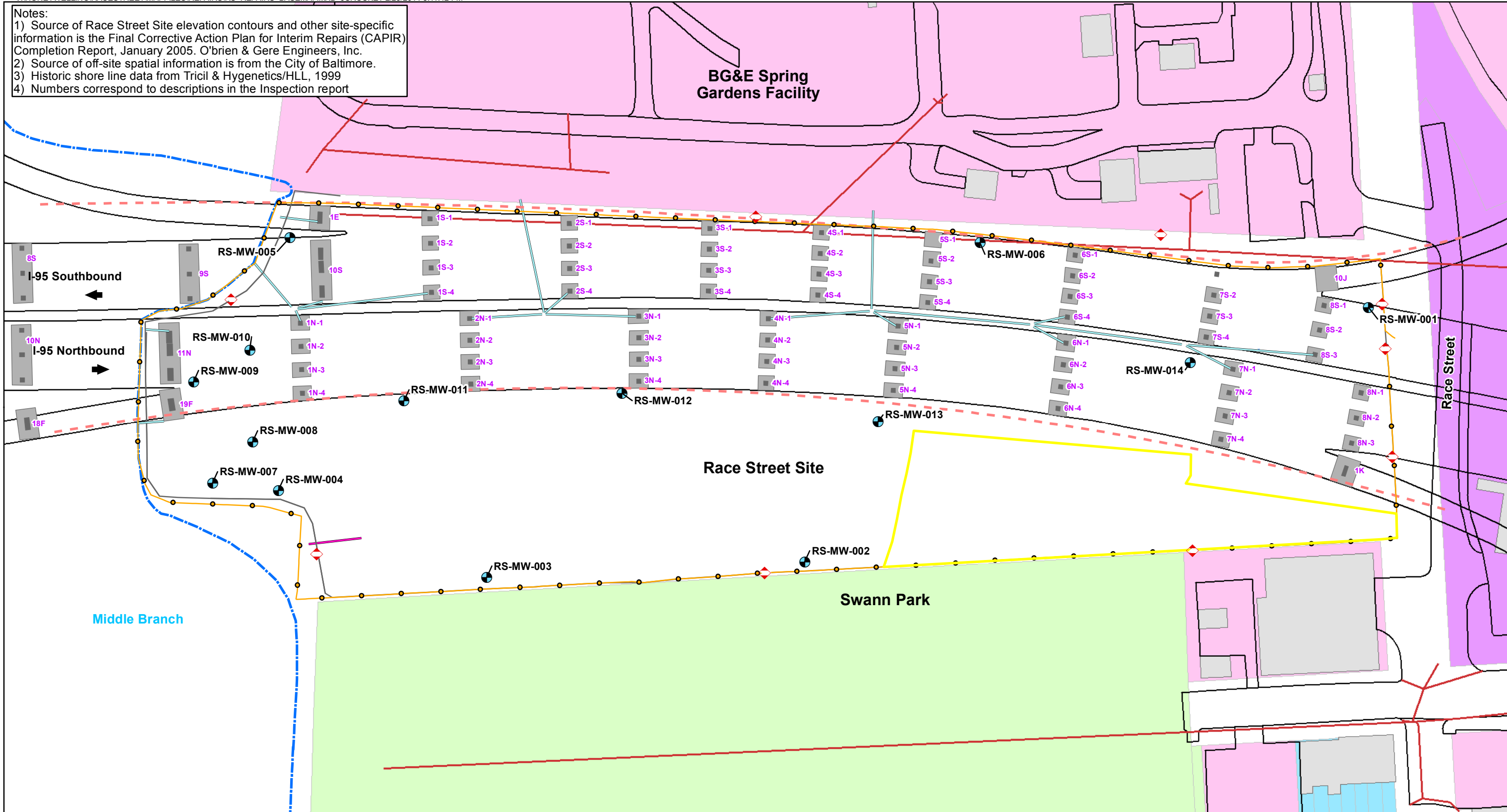
Inspector:	Ramzi Khuri	Date of Inspection:	29-Nov-18
Title:	Civil Engineer	Date of Last Inspection:	25-Oct-18
Organization:	CH2M HILL	Weather:	Cold, sunny

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).	6:Debris accumulation with vegetation growth	None	NA	Debris and vegetation to be removed as part of scheduled site maintenance.
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
	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)	9: Alligator cracking 11: Alligator cracking with vegetation growth	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)	1: Vegetation growth through asphalt	None	NA	Vegetation to be addressed as part of scheduled site 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).	5: Crack in asphalt with vegetation growth 4: Crack between pier footing and asphalt with vegetation growth	None	NA	Vegetation to be made as part of scheduled site maintenance. Surface cover repairs to be addressed as part of scheduled site maintenance and cap repairs.
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: Wide crack in asphalt with vegetation growth 7: Crack between pier footing and asphalt with vegetation growth	None	NA	Vegetation to be addressed as part of scheduled site maintenance. Surface cover repairs to be addressed as part of scheduled site maintenance and cap repairs.
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).	10: Hole in bottom of fence (6-inch diameter)	City of Baltimore notified.	12/4/2018	Fence repairs to be made by the City as part of scheduled site maintenance.
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	3: Vegetation growth along fence	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	Sylvie Osias from MDE was present onsite during the site visit. A representative from the City of Baltimore was not present.			
Other Comments/Observations?	8: Damage to well bollards; Casing for well RS-MW-011 damaged as well as surrounding bollards to be repaired during 2019 cap repairs 12: 17 totes that are either empty, full, or partially contain FeS were present during the site visit and subsequently removed from the site on 12-5-18.			

Notes:  
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 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



**Legend**

◊ 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	

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

0 50 100 Feet  
1 inch = 100 feet

**2000 Race Street  
Monthly Site Inspection Checklist**

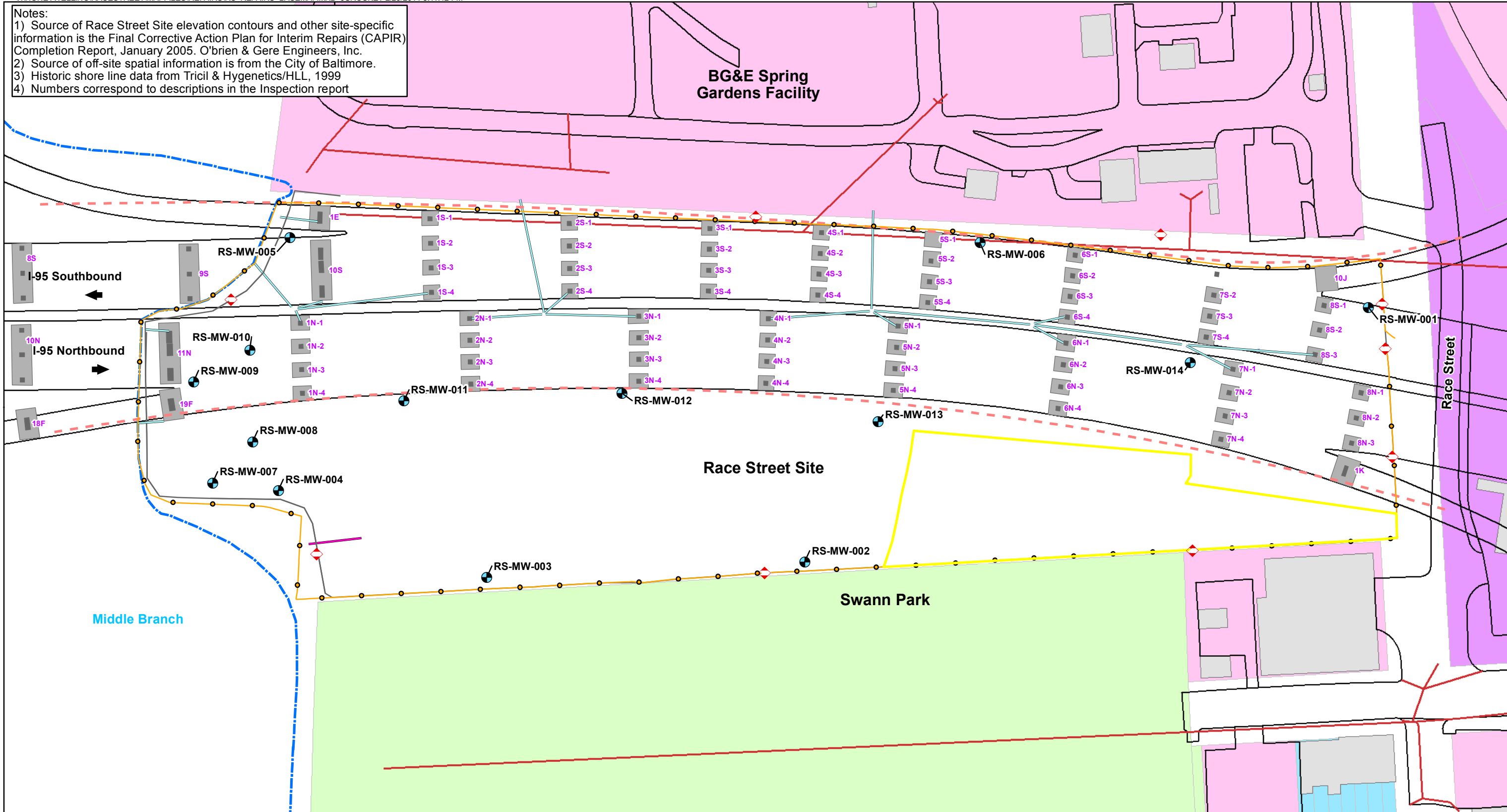
Inspector:	Bill Morris	Date of Inspection:	20-Dec-18
Title:	Environmental Engineer	Date of Last Inspection:	29-Nov-18
Organization:	CH2M HILL	Weather:	Cool, cloudy

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).	5: Debris accumulation with vegetation growth	None	NA	Debris and vegetation to be addressed as part of scheduled site maintenance.
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
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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
	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 or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
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: Crack in asphalt with vegetation growth 3: Crack between pier footing and asphalt with vegetation growth	None	NA	Vegetation to be addressed as part of scheduled site maintenance. Surface cover repairs to be made as part of scheduled site maintenance and cap repairs.
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: Wide crack in asphalt with vegetation growth 6: Crack between pier footing and asphalt with vegetation growth	None	NA	Vegetation to be addressed as part of scheduled site maintenance. Surface cover repairs to be made as part of scheduled site maintenance and cap repairs.
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	2: Vegetation growth along fence	None	NA	Vegetation to be addressed as part of scheduled site maintenance.
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	Ravic Miller with the City of Baltimore DOT and Al Simkins with MDE were on site for the monthly site visit.			
Other Comments/Observations?	Previously noted damage to well bollards; Casing for well RS-MW-011 damaged as well as surrounding bollards to be repaired during 2019 cap repairs.			

**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.  
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<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	

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

0 50 100 Feet  
1 inch = 100 feet