



HEALTH, SAFETY, ENVIRONMENTAL, PRODUCT STEWARDSHIP AND SUSTAINABILITY

115 Tabor Road, 4-D4

Morris Plains, New Jersey 07950

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April 21, 2020

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, First Quarter 2020, 2000 Race Street Site, Baltimore, Maryland

Dear Mr. Hammerberg:

Please find attached the First Quarter 2020 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 General Inspection Requirements of Section II.C of the Controlled Hazardous Substance (CHS) Post-Closure permit issued by the Maryland Department of the Environment (MDE) for the 2000 Race Street Site Consent Order, effective September 27, 2019.

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.

Sincerely,

A handwritten signature in blue ink that reads "Maria Kaouris".

Maria Kaouris
Remediation Manager

Attachment

cc: Mr. Ed Dexter—MDE
Mr. Al Simpkins—MDE
Ms. Dawn Lettman—City of Baltimore
Mr. Ravic Miller—City of Baltimore
Mr. George Pfeiffer—Honeywell
Ms. Jessica Telano—Honeywell

First Quarter 2020 Site Progress Report

2000 Race Street
Baltimore, Maryland

Prepared for

Honeywell

115 Tabor Road
Morris Plains, New Jersey 07950

and

The Mayor and City Council of Baltimore, Maryland

Prepared by

JACOBS[®]

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

April 2020

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Appendix A Site Inspection Reports

1. Introduction

Honeywell International Inc. (Honeywell) and the Mayor and City Council of Baltimore City (City) are submitting this Quarterly Site Progress Report for the 2000 Race Street Site (site) pursuant to the General Inspection Requirements of Section II.C of the Controlled Hazardous Substance (CHS) Post-Closure permit issued by the Maryland Department of the Environment (MDE) for the site on September 27, 2019. Quarterly Site Progress Reports will be submitted to MDE to include 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 first quarter of 2020, from January 1, 2020, through March 31, 2020.

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. The cap was completed at the end of 2019, and was implemented pursuant to a Controlled Hazardous Substances Permit referenced below. Cap maintenance is ongoing. Additional information regarding the site includes the following: *May 23, 2007, Consent Order, Site Characterization Work Plan*, dated September 2007; *Site Characterization Report*, dated September 2009; *Near Shore Investigation Report*, dated December 2009; *Interim Remedial Measures Assessment Investigation and Pilot Test Report*, dated July 2012; *Supplemental Site Characterization Report (former arsenic shed area)*, dated February 2018; *Interim Remedial Measures Assessment (IRMA) Report*, dated August 2018; *the Corrective Measures Alternatives Analysis Report*, date August 2018; and *Post-Closure Controlled Hazardous Substance (CHS) Permit issued by MDE*, dated September 27, 2019.

2. Quarter in Review

Site-related activities performed during the first quarter of 2020 include the following:

- January 8: Held Project Coordinator call with MDE;
- January 9: I-95 Bridge inspection performed by the Maryland Department of Transportation (MDTA);
- January 17: Pre-Design Well Installation Completion letter submitted to MDE;
- January 17: Submitted letter to MDE proposing Alternative Approach for Monitoring Well RS-MW-018 installation;
- January 23: Performed monthly site status inspection (Appendix A);
- January 23/24: Performed inclinometer and extensometer readings;
- January 26: Mobilized for monitoring the permeable reactive barrier and perform site-wide groundwater monitoring;
- January 29: Submitted Q4 2019 Site Status Report to MDE;
- January 30: Notified MDE of changes in field conditions;
- February 5: Submitted Site Conditions Notification letter to MDE;
- February 6: Held Project Coordinator call with MDE;

- February 7: Submitted Work Plan for Permeable Reactive Barrier Performance Monitoring and Groundwater Compliance Monitoring to MDE;
- February 11: Submitted Methane Site Conditions Status Update letter to MDE;
- February 27: Performed monthly site status inspection (Appendix A);
- March 6: Presented Methane Assessment Status review to MDE;
- March 16: Performed vapor probe installation and vapor monitoring;
- March 19: Performed monthly site status inspection (Appendix A); and
- March 25: Submitted Five Year Monitoring Notification letter to MDE.

3. Upcoming Work during the Second Quarter of 2020

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 (April, May, and June);
- Submit the First Quarter 2020 Site Progress report to MDE;
- Continue performing Supplemental Methane Assessment;
- Resume permeable reactive barrier (PRB) and sitewide groundwater monitoring program;
- Submit Cap Construction Completion Report to MDE;
- Present conceptual approach for addressing near-shore sediments to MDE;
- Perform quarterly Semi-annual Shape Accel Array (SAA)/inclinometer readings; and
- Completed cap punch list items and fence installation.

4. Schedule

A schedule of Consent Order activities anticipated during the second quarter of 2020 is provided below.

Milestone	Anticipated Date
<i>April 2020</i>	
Perform SAA/inclinometer readings	TBD
Perform monthly site status inspection	4-23-20
Submit Q1 2020 Site Progress report	4-30-20
Perform supplemental vapor monitoring and complete cap installation punch list items	TBD
<i>May 2020</i>	
Perform monthly site status inspection	TBD
<i>June 2020</i>	
Perform monthly Site Status inspection	TBD
Resume PRB & Groundwater Monitoring	TBD

Appendix A

Site Inspection Reports

**2000 Race Street
Monthly Site Inspection Checklist**

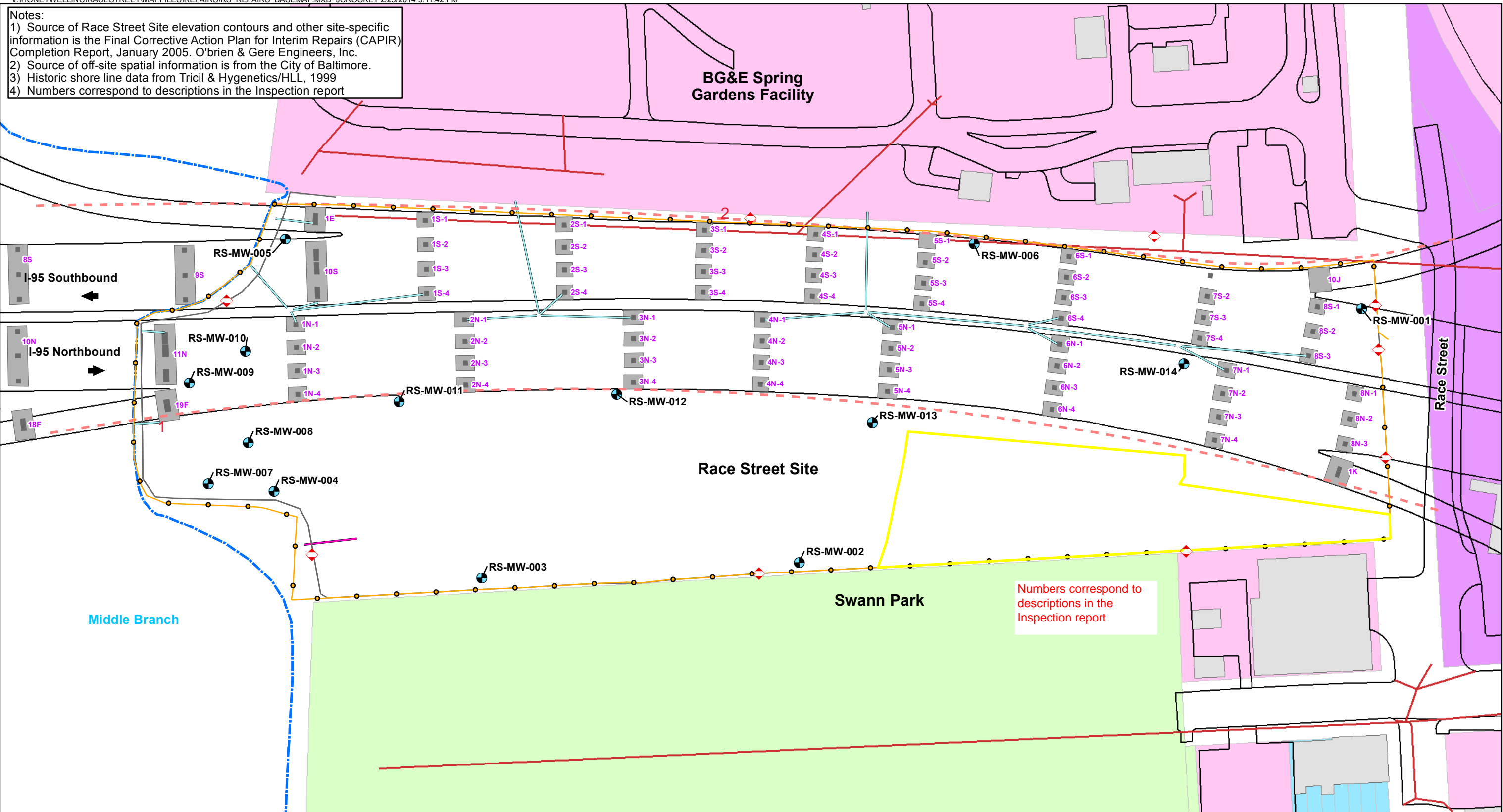
Inspector:	Bill Morris	Date of Inspection:	23-Jan-20
Title:	Environmental Engineer	Date of Last Inspection:	19-Dec-19
Organization:	CH2M HILL	Weather:	Sunny, cold

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
1. General				
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).	None	None	NA	NA
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
2. Interstate 95 Footings and Joints				
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)	1: Localized sphalt settlement around pier footing	None	NA	NA
	None	None	NA	NA
3. Engineered Cap				
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)	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).	None	None	NA	NA
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).	None	None	NA	NA
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
4. Fence				

**2000 Race Street
Monthly Site Inspection Checklist**

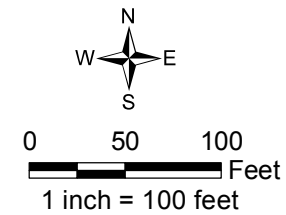
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine 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
5. Aboveground Stormwater Conveyance System				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
6. Vandalism				
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
7. Signage				
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
8. Miscellaneous Items				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Al Simkins of MDE and Ravic Miller with the City of Baltimore DOT on site for the monthly inspection.			
Other Comments/Observations?	2: Erosion at edge of stormwater let down on slope.			

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



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
January 23, 2020



**2000 Race Street
Monthly Site Inspection Checklist**

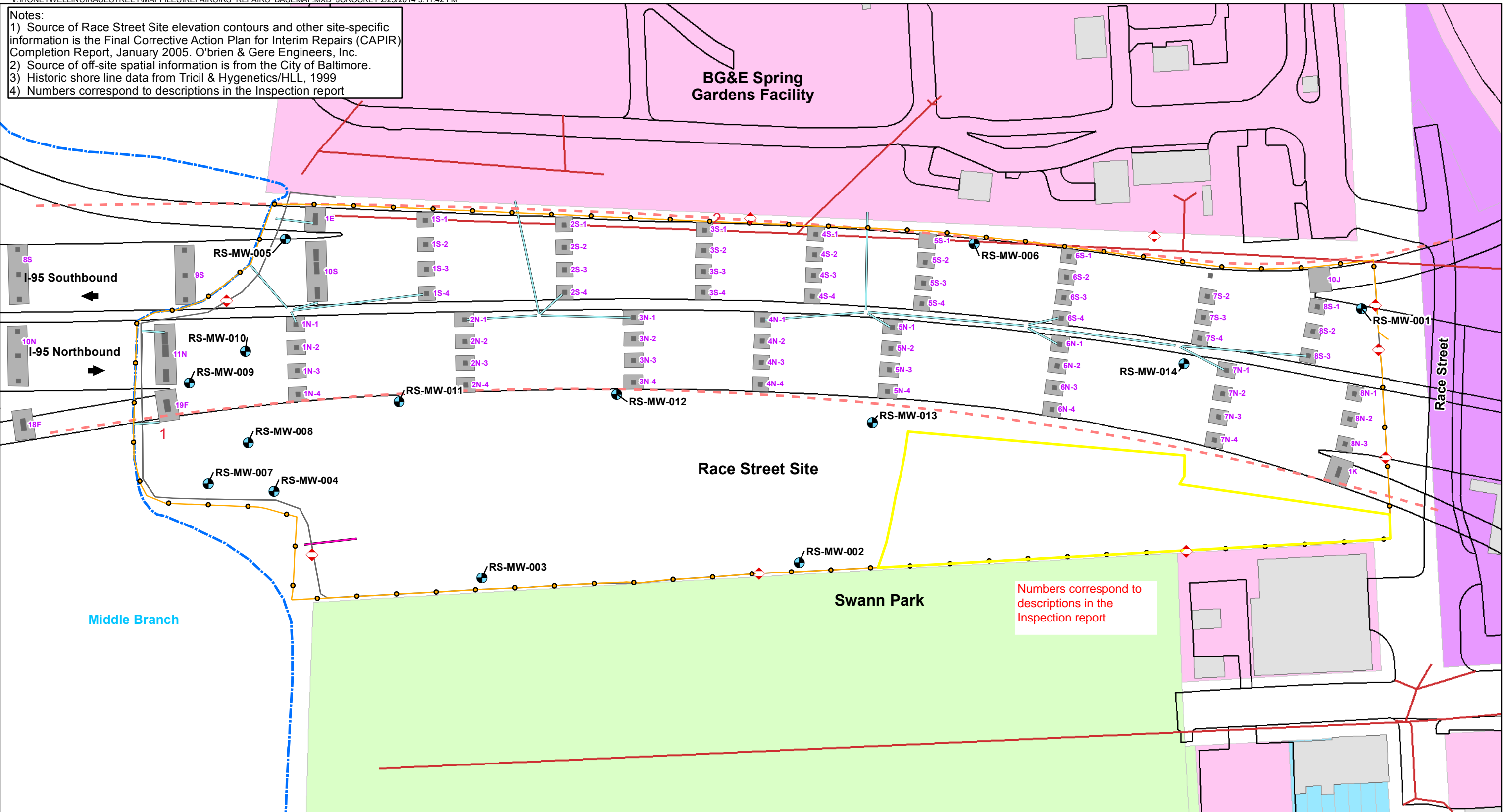
Inspector:	Bill Morris	Date of Inspection:	27-Feb-20
Title:	Environmental Engineer	Date of Last Inspection:	23-Jan-20
Organization:	CH2M HILL	Weather:	Sunny, cold, windy

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
1. General				
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).	None	None	NA	NA
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
2. Interstate 95 Footings and Joints				
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)	1: Localized sphalt settlement around pier footing	None	NA	NA
	None	None	NA	NA
3. Engineered Cap				
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)	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).	None	None	NA	NA
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).	None	None	NA	NA
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
4. Fence				

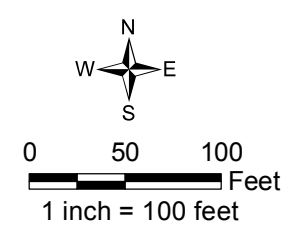
**2000 Race Street
Monthly Site Inspection Checklist**

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
5. Aboveground Stormwater Conveyance System				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
6. Vandalism				
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
7. Signage				
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
8. Miscellaneous Items				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Al Simkins of MDE and Ravic Miller with the City of Baltimore DOT on site for the monthly inspection.			
Other Comments/Observations?	2: Erosion at edge of stormwater let down on slope.			

Notes:
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- 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
February 27, 2020



**2000 Race Street
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	19-Mar-20
Title:	Environmental Engineer	Date of Last Inspection:	27-Feb-20
Organization:	CH2M HILL	Weather:	Warm, cloudy

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
1. General				
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).	None	None	NA	NA
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
2. Interstate 95 Footings and Joints				
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)	1: Localized asphalt settlement around pier footing	None	NA	NA
	None	None	NA	NA
3. Engineered Cap				
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).	None	None	NA	NA
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).	None	None	NA	NA
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
4. Fence				

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Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
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7. Signage				
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
8. Miscellaneous Items				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Workers with Flanigan on site for enhanced cap paving.			
Other Comments/Observations?	2: Erosion at edge of stormwater let down on slope.			

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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