

Appendix A: Monitoring Locations

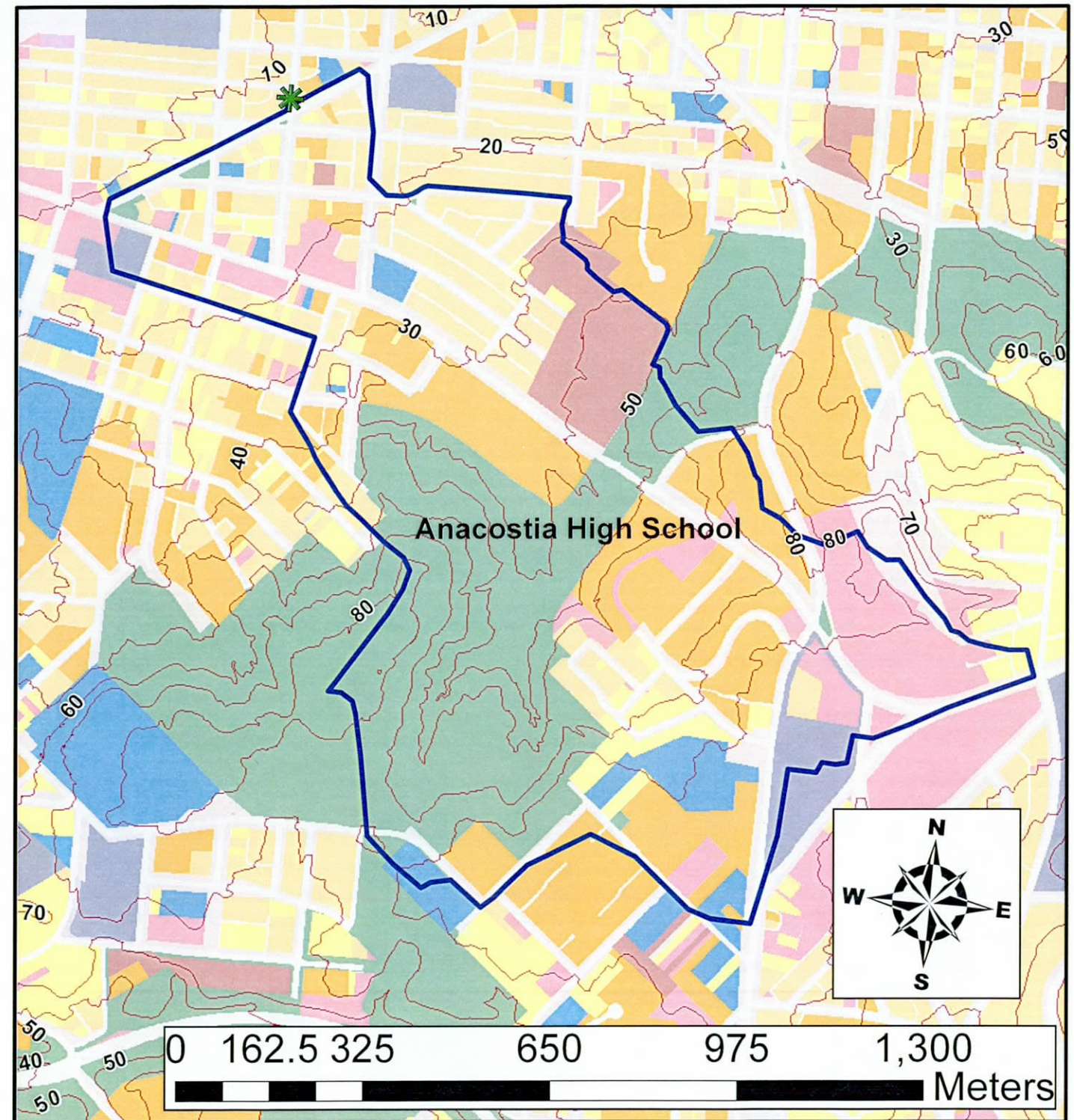
Anacostia High School

Site MS-3

Note: Sampling site is a manhole
not an outfall

Legend

-  Water Quality Monitoring Sites
-  Water Quality Monitoring Sites Drainage Area
- Existing Land Use
- Land Use Designation
 -  Low Density Residential
 -  Low-Medium Density Residential
 -  Medium Density Residential
 -  High Density Residential
 -  Commercial
 -  Transport, Communication, Utilities
 -  Industrial
 -  Mixed Use
 -  Institutional
 -  Federal Public
 -  Local Public
 -  Public, Quasi-Public, Institutional
 -  Parks and Open Spaces
 -  Parking
 -  Roads; Alleys; Median
 -  Transportation Right of Way
 -  Undetermined
 -  Water

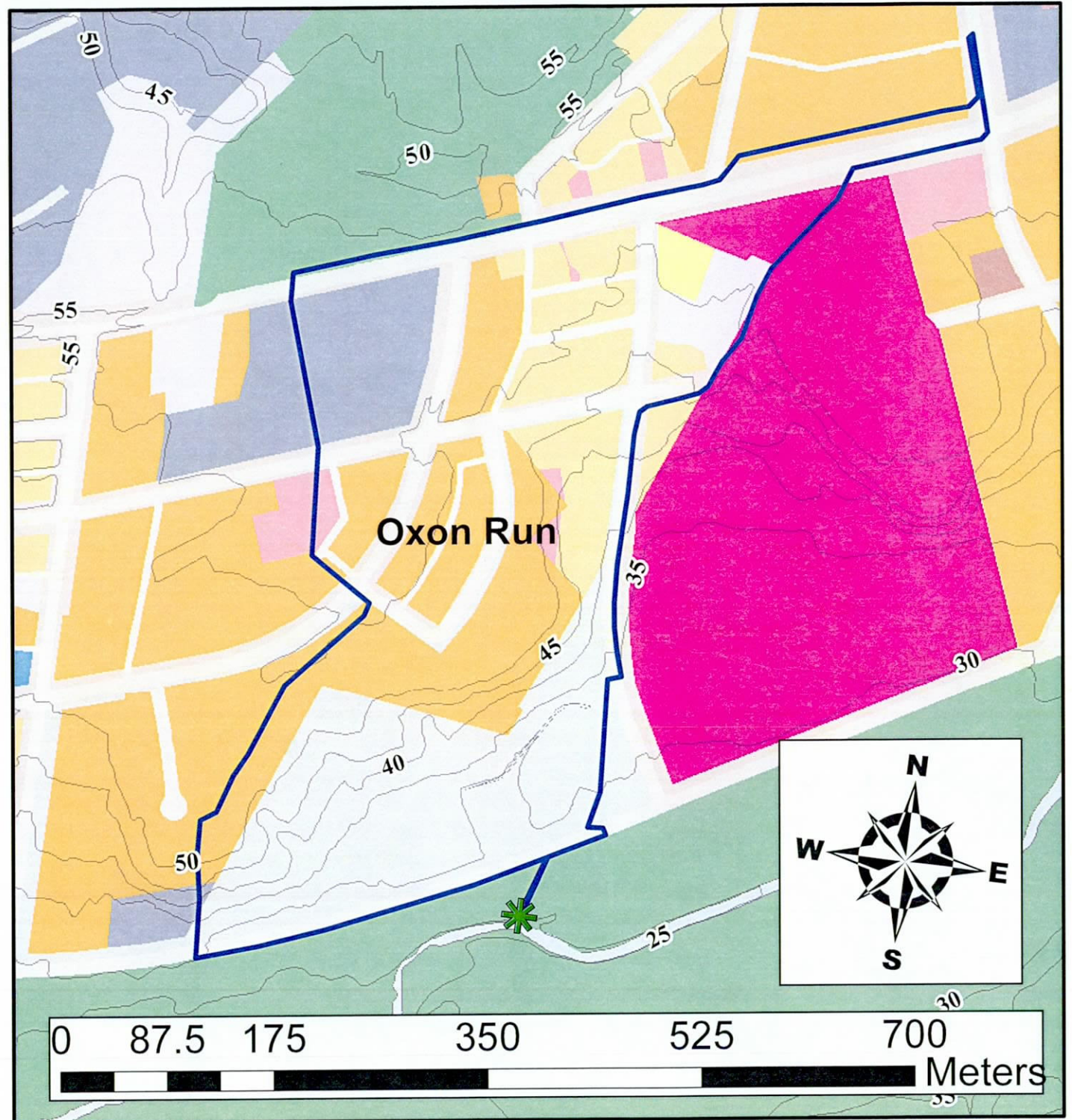


Oxon Run/ Mississippi Ave

Site MS-1

Legend

-  Water Quality Monitoring Sites
-  Water Quality Monitoring Sites Drainage Area
-  5m Topo Lines
- Existing Land Use
- Land Use Designation
-  Low Density Residential
-  Low-Medium Density Residential
-  Medium Density Residential
-  High Density Residential
-  Commercial
-  Transport, Communication, Utilities
-  Industrial
-  Mixed Use
-  Institutional
-  Federal Public
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-  Parking
-  Roads; Alleys; Median
-  Transportation Right of Way
-  Undetermined
-  Water

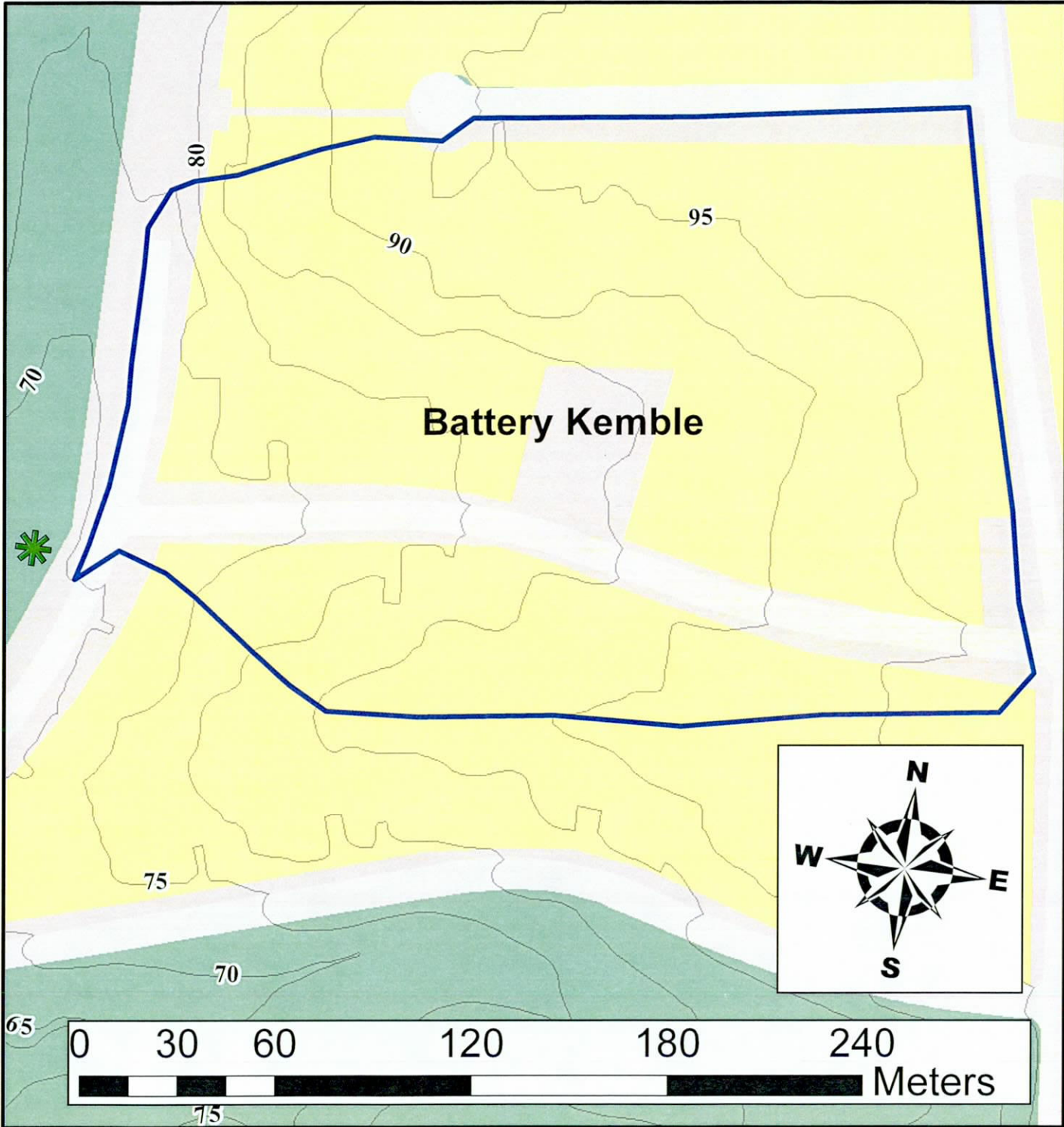


Battery Kemble Creek

Site MS-4

Legend

-  Water Quality Monitoring Sites
-  Water Quality Monitoring Sites Drainage Area
-  5m Topo Lines
- Existing Land Use
- Land Use Designation
 -  Low Density Residential
 -  Low-Medium Density Residential
 -  Medium Density Residential
 -  High Density Residential
 -  Commercial
 -  Transport, Communication, Utilities
 -  Industrial
 -  Mixed Use
 -  Institutional
 -  Federal Public
 -  Local Public
 -  Public, Quasi-Public, Institutional
 -  Parks and Open Spaces
 -  Parking
 -  Roads; Alleys; Median
 -  Transportation Right of Way
 -  Undetermined
 -  Water

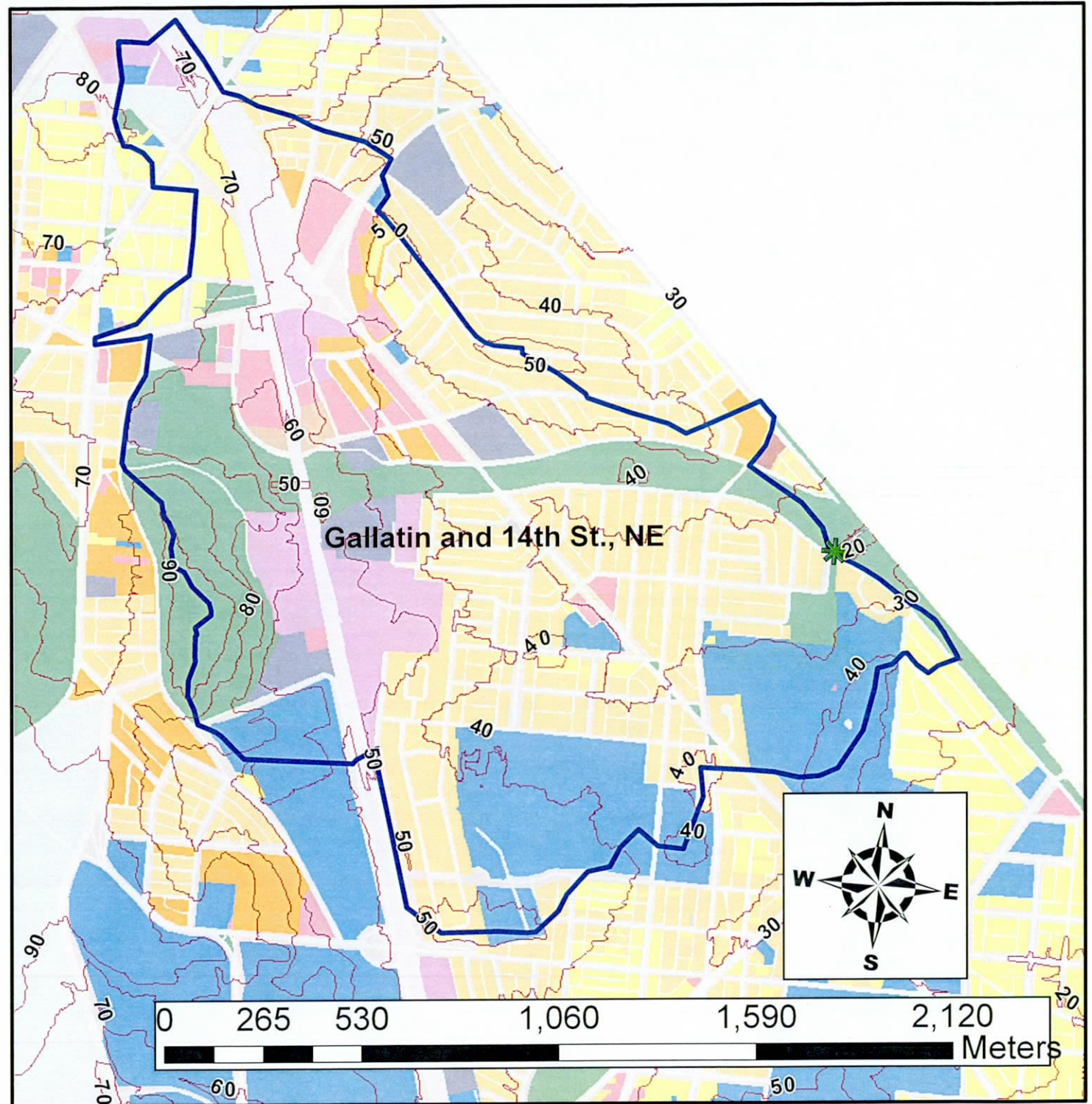


Gallatin St & 14th St NE

Site MS-2

Legend

-  Water Quality Monitoring Sites
-  Water Quality Monitoring Sites Drainage Area
- Existing Land Use
- Land Use Designation
 -  Low Density Residential
 -  Low-Medium Density Residential
 -  Medium Density Residential
 -  High Density Residential
 -  Commercial
 -  Transport, Communication, Utilities
 -  Industrial
 -  Mixed Use
 -  Institutional
 -  Federal Public
 -  Local Public
 -  Public, Quasi-Public, Institutional
 -  Parks and Open Spaces
 -  Parking
 -  Roads; Alleys; Median
 -  Transportation Right of Way
 -  Undetermined
 -  Water



Soapstone Creek

Site MS-5

Legend



Water Quality Monitoring Sites



Water Quality Monitoring Sites Drainage Area

Existing Land Use

Land Use Designation

Low Density Residential

Low-Medium Density Residential

Medium Density Residential

High Density Residential

Commercial

Transport, Communication, Utilities

Industrial

Mixed Use

Institutional

Federal Public

Local Public

Public, Quasi-Public, Institutional

Parks and Open Spaces

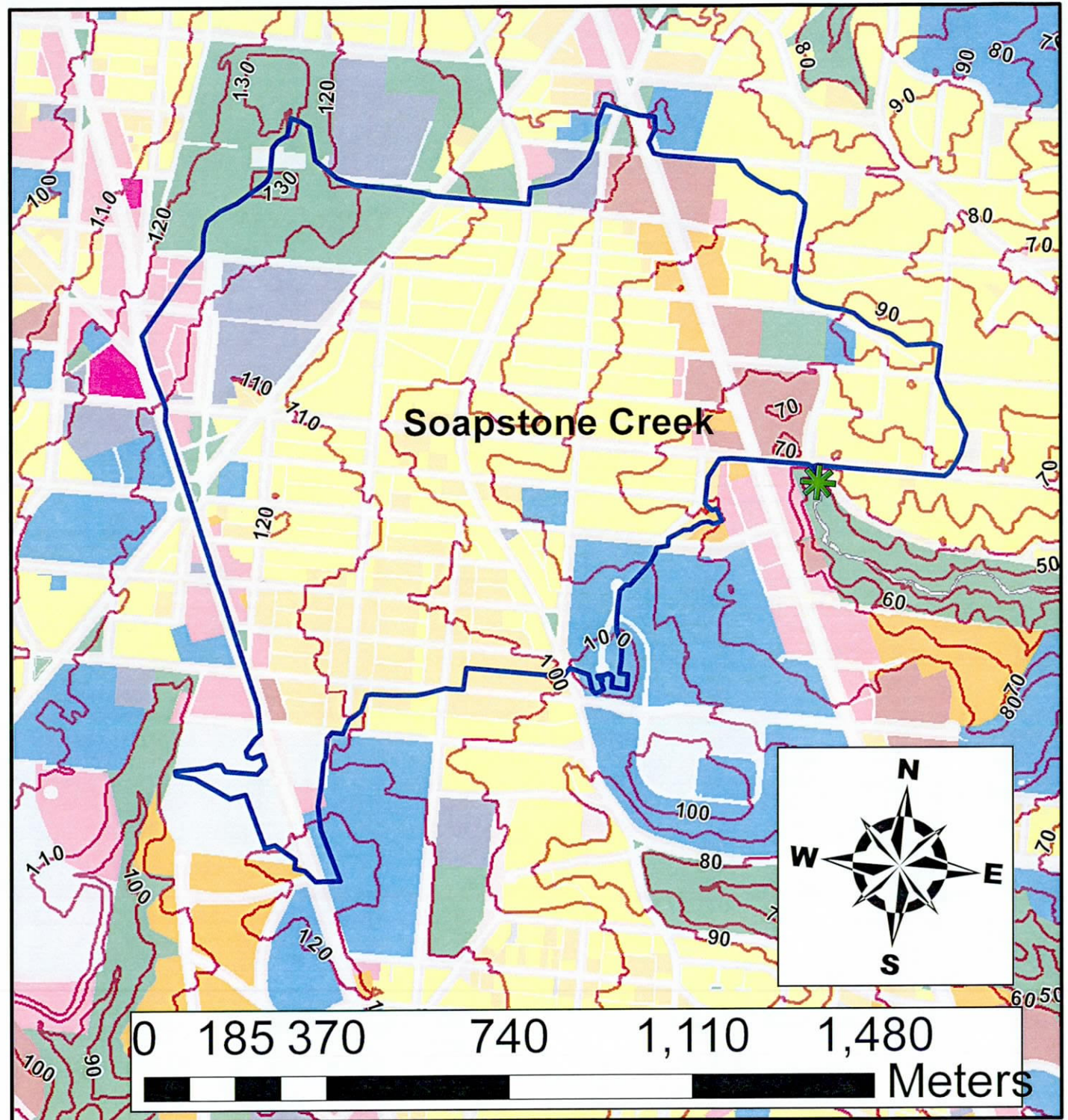
Parking

Roads; Alleys; Median

Transportation Right of Way

Undetermined

Water

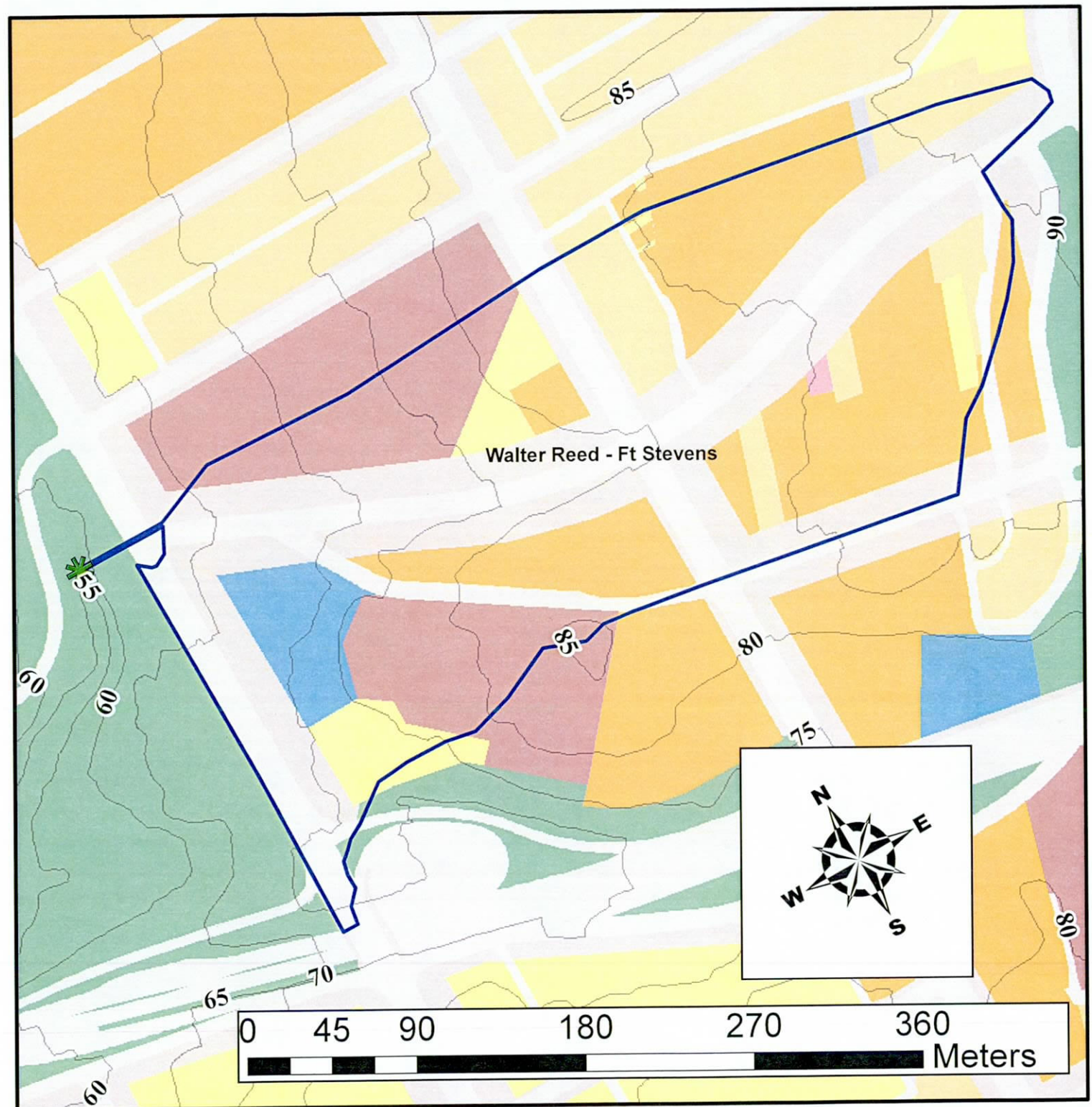


Walter Reed/ Ft. Stevens Dr NW

Site MS-6

Legend

-  Water Quality Monitoring Sites
-  Water Quality Monitoring Sites Drainage Area
-  5m Topo Lines
- Existing Land Use
- Land Use Designation
-  Low Density Residential
-  Low-Medium Density Residential
-  Medium Density Residential
-  High Density Residential
-  Commercial
-  Transport, Communication, Utilities
-  Industrial
-  Mixed Use
-  Institutional
-  Federal Public
-  Local Public
-  Public, Quasi-Public, Institutional
-  Parks and Open Spaces
-  Parking
-  Roads; Alleys; Median
-  Transportation Right of Way
-  Undetermined
-  Water



Appendix B: Dry Weather Sampling Data

Table 13 2013 Dry Weather Sampling Data

Parameter	Units	Anacostia High		Gallatin & 14th St NE		Walter Reed		Soapstone Creek		Battery Kemble Creek		Oxon Run		Water Quality Standards
		1/23/2013	4/11/2013	1/23/2013	5/21/2013	2/7/2013	5/21/2013	2/7/2013	4/11/2013	4/11/2013	5/21/2013	1/23/2013	4/11/2013	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Water Quality Standard Calculated
1,1,2-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Water Quality Standard Calculated
Arsenic	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Water Quality Standard Calculated
Bis(2-Ethylhexyl)phthalate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Water Quality Standard Calculated
BOD	mg/L	ND	8.1	2.1	3.6	18	7.2	2.4	5.9	NDF	NDF	ND	ND	No Water Quality Standard Calculated
Cadmium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Water Quality Standard Calculated
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Water Quality Standard Calculated
Chlorophyll a	ug/L	ND	6.4	ND	13	ND	4.3	4.4	0.53	NDF	NDF	1.1	3.7	See Table 14
Chromium	mg/L	0.0026	ND	0.0027	ND	ND	ND	ND	0.0028	NDF	NDF	ND	ND	See Table 14

Parameter	Units	Anacostia High		Gallatin & 14th St NE		Walter Reed		Soapstone Creek		Battery Kemble Creek		Oxon Run		Water Quality Standards
		1/23/2013	4/11/2013	1/23/2013	5/21/2013	2/7/2013	5/21/2013	2/7/2013	4/11/2013	4/11/2013	5/21/2013	1/23/2013	4/11/2013	
COD, Total	mg/L	ND	ND	ND	15	ND	24	18	ND	NDF	NDF	ND	ND	No Water Quality Standard Calculated
Copper	mg/L	0.0052	0.0051	0.006	0.0059	0.003	0.0039	0.0019	0.023	NDF	NDF	0.0016	0.002	See Table 14
Cyanide, Total	mg/L	ND	ND	0.0076	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	See Table 14
Dieldrin	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Data to compare to Water Quality Standards
E. Coli	MPN/100 mL	49	46	>1600	>1600	23	>1600	23	540	NDF	NDF	49	46	See Table 14
Fecal Coliform	MPN/100 mL	49	46	>1600	>1600	23	>1600	23	540	NDF	NDF	1600	46	No Water Quality Standard Calculated
Fecal Streptococcus	MPN/100 mL	ND	ND	ND	ND	ND	ND	140	ND	NDF	NDF	7.8	ND	No Water Quality Standard Calculated
gamma-BHC	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No data to compare to Water Quality Standard
Hardness (As CaCO ₃)	mg CaCO ₃ /L	130	180	160	240	260	290	270	250	NDF	NDF	110	170	No Water Quality Standard Calculated
Lead	mg/L	ND	ND	ND	0.0053	ND	ND	ND	0.0019	NDF	NDF	ND	ND	See Table 14
Nickel	mg/L	0.0078	0.0081	0.016	0.012	0.018	0.013	0.0087	0.0064	NDF	NDF	0.013	0.01	See Table 14

Parameter	Units	Anacostia High		Gallatin & 14th St NE		Walter Reed		Soapstone Creek		Battery Kemble Creek		Oxon Run		Water Quality Standards
		1/23/2013	4/11/2013	1/23/2013	5/21/2013	2/7/2013	5/21/2013	2/7/2013	4/11/2013	4/11/2013	5/21/2013	1/23/2013	4/11/2013	
Nitrogen, Total	mg/L	1.4	2.7	ND	2.2	3	2.5	1.5	2.3	NDF	NDF	ND	2.7	No Water Quality Standard Calculated
Oil & Grease	mg/L	ND	10	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	5	No Water Quality Standard Calculated
PCB, Total	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No data to compare to Water Quality Standar
pH		7.61	7.87	7.54	7.74	6.89	7.33	6.6	7.67	NDF	NDF	7.3	7.22	See Table 14
Phenolics, Total Recoverable	mg/L	ND	0.012	ND	ND	ND	0.033	ND	ND	NDF	NDF	ND	0.044	No Water Quality Standard Calculated
Phosphorus, Dissolved (As P)	mg/L	0.0042	0.022	0.031	0.047	0.13	0.053	0.076	0.3	NDF	NDF	ND	0.0076	No Water Quality Standard Calculated
Phosphorus, Total (As P)	mg/L	0.15	0.12	0.081	0.096	0.25	0.048	0.12	0.56	NDF	NDF	ND	0.12	No Water Quality Standard Calculated
Temperature	C	3.72	16.6	6.6	18.8	13	17.22	13.1	14.88	NDF	NDF	9.33	16.5	No Water Quality Standard Calculated
Tetrachloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No Data to compare to Water Quality Standard

Parameter	Units	Anacostia High		Gallatin & 14th St NE		Walter Reed		Soapstone Creek		Battery Kemble Creek		Oxon Run		Water Quality Standards
		1/23/2013	4/11/2013	1/23/2013	5/21/2013	2/7/2013	5/21/2013	2/7/2013	4/11/2013	4/11/2013	5/21/2013	1/23/2013	4/11/2013	
Total Dissolved Solids	mg/L	300	270	510	560	580	1000	490	530	NDF	NDF	320	300	No Water Quality Standard Calculated
Total Suspended Solids	mg/L	44	7	8.2	7.5	6.4	ND	6	5.5	NDF	NDF	2	22	No Water Quality Standard Calculated
Trichloroethylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NDF	NDF	ND	ND	No data to compare to Water Quality Standard
Zinc	mg/L	0.018	0.019	0.031	0.052	0.018	0.015	0.009	0.048	NDF	NDF	0.016	0.018	See Table 14

Cells marked in green did not exceed the event Water Quality Standard

Cells marked in red did exceed the event Water Quality Standard

ND: Analyte below the detection or reporting limit

NDF: No dry weather flow

Table 14 Dry Weather Sampling Event Specific Water Quality Standards

STANDARD	Units	Anacostia High		Gallatin & 14th St NE		Walter Reed		Soapstone Creek		Battery Kemble Creek		Oxon Run	
		1/23/2013	4/11/2013	1/23/2013	5/21/2013	2/7/2013	5/21/2013	2/7/2013	4/11/2013	4/11/2013	5/21/2013	1/23/2013	4/11/2013
Lead standard	ug/L	0.004	0.007	0.006	0.010	0.011	0.012	0.011	0.010	NA	NA	0.004	0.006
Chromium standard	mg/L	0.11	0.14	0.13	0.18	0.19	0.21	0.19	0.18	NA	NA	0.09	0.13
Copper standard	ug/L	0.012	0.015	0.014	0.020	0.021	0.023	0.022	0.020	NA	NA	0.010	0.015
Hardness (As CaCO ₃)	mg CaCO ₃ /L	130	180	160	240	260	290	270	250	NA	NA	110	170
Nickel standard	mg/L	0.065	0.086	0.078	0.109	0.117	0.128	0.121	0.113	NA	NA	0.057	0.082
Zinc standard	mg/L	0.150	0.197	0.178	0.252	0.269	0.295	0.278	0.260	NA	NA	0.130	0.188
Cyanide standard	mg/L			0.0052 (4-day average), 0.022 (1-hour average), and 0.14 (30-day average)									
Chlorophyll a ¹	ug/L	25											
E. Coli	MPN/100 mL	126 (30-day geomean) and 410 (single sample)											
pH		Range from 6-8.5											

¹ The Standard for tidal water is 25 ug/L.