APPENDIX D

MOORES RUN – BENCHMARK AND MONUMENT INFORMATION

MOORES RUN MONUMENT LOCATIONS

MONUMENT	GLOBAL POSITIONING SYSTEM (GPS) COORDINATE (NAD 83)	ELEVATION (ft) (Baltimore City Datum)
Cross Sections		
Service XS A		
Left	N: 39° 19' 53.5" (+/- 27 ft)	54.19 ft
	W: 76° 32' 06.8" (+/- 27 ft)	
Right	N: 39° 19' 53.0" (+/- 21 ft)	51.89 ft
	W: 76° 32' 08.0" (+/- 21 ft)	
Service XS B		
Left	N: 39° 19' 56.7" (+/- 24 ft)	59.98 ft
	W: 76° 32' 08.4" (+/- 24 ft)	
Right	N: 39° 19' 56.6" (+/- 21 ft)	58.45 ft
	W: 76° 32' 09.5" (+/- 21 ft)	
Service XS C		
Left	N: 39° 19' 59.0" (+/- 24 ft)	64.62 ft
	W: 76° 32' 10.4" (+/- 24 ft)	
Right	N: 39° 19' 58.6" (+/- 18 ft)	63.42 ft
	W: 76° 32' 10.8" (+/- 18 ft)	
Service XS D		
Left	N: 39° 20' 06.1" (+/- 18 ft)	78.88 ft
	W: 76° 32' 16.2" (+/- 18 ft)	
Right	N: 39° 20' 05.5" (+/- 12 ft)	74.84 ft
	W: 76° 32' 17.0" (+/- 12 ft)	
Service XS G		
Left	N: 39° 19' 47.8" (+/- 24 ft)	49.40 ft
	W: 76° 32' 04.4" (+/- 24 ft)	
Right	N: 39° 19' 47.7" (+/- 18 ft)	57.15 ft
	W: 76° 32' 06.0" (+/- 18 ft)	
Baltimore City XS 2		
Left	N: 39° 20' 11.9" (+/- 25 ft)	99.19 ft
	W: 76° 32' 20.7" (+/- 25 ft)	
Right	N: 39° 20' 11.3" (+/- 15 ft)	103.36 ft
	W: 76° 32' 21.2" (+/- 15 ft)	
Baltimore City XS 14		
Left	N: 39° 20' 06.9" (+/- 23 ft)	78.65 ft
	W: 76° 32' 17.2" (+/- 23 ft)	
Right	N: 39° 20' 06.5" (+/- 18 ft)	82.85 ft
	W: 76° 32' 17.8" (+/- 18 ft)	

MOORES RUN MONUMENT LOCATIONS

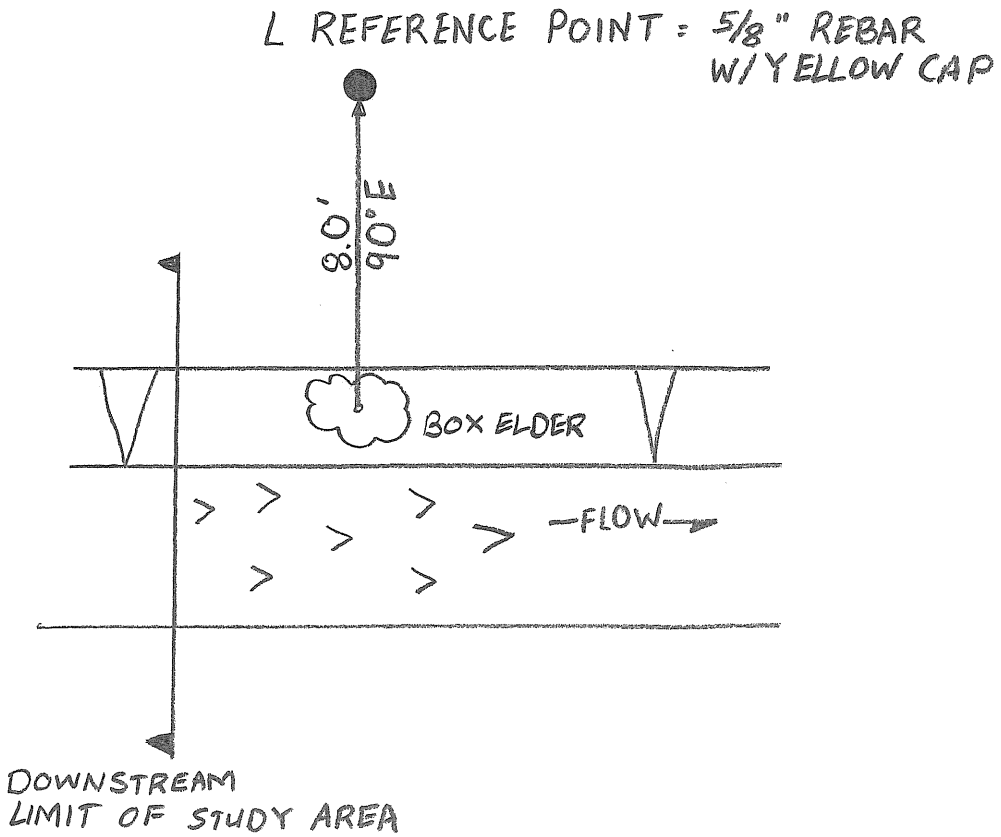
MONUMENT	GLOBAL POSITIONING SYSTEM (GPS) COORDINATE (NAD 83)	ELEVATION (ft) (Baltimore City Datum)
Cross Sections (continued)		
Baltimore City XS 16		
Left	N: 39° 20' 04.8" (+/- 21 ft)	77.17 ft
	W: 76° 32' 15.6" (+/- 21 ft)	
Right	N: 39° 20' 04.8" (+/- 18 ft)	73.60 ft
	W: 76° 32' 16.2" (+/- 18 ft)	
Baltimore City XS 18		
Left	N: 39° 20' 03.1" (+/- 21 ft)	67.49 ft
	W: 76° 32' 14.2" (+/- 21 ft)	
Right	N: 39° 20' 02.7" (+/- 17 ft)	71.60 ft
	W: 76° 32' 14.9" (+/- 17 ft)	
Baltimore City XS 26		
Left	N: 39° 19' 54.9" (+/-19 ft)	55.93 ft
	W: 76° 32' 07.7" (+/- 19 ft)	
Right	N: 39° 19' 54.8" (+/- 19 ft)	56.17 ft
	W: 76° 32' 09.0" (+/- 19 ft)	
Baltimore City XS 28		
Left	N: 39° 19' 53.1" (+/-19 ft)	53.10 ft
	W: 76° 32' 06.6" (+/- 19 ft)	
Right	N: 39° 19' 52.3" (+/- 19 ft)	52.24 ft
	W: 76° 32' 07.6" (+/- 19 ft)	
Baltimore City XS 32		
Left	N: 39° 19' 50.4" (+/-22 ft)	49.71 ft
	W: 76° 32' 05.5" (+/- 22 ft)	
Right	N: 39° 19' 50.3" (+/- 23 ft)	50.45 ft
	W: 76° 32' 06.7" (+/- 23 ft)	
Baltimore City XS 38		
Left	N: 39° 19' 46.6" (+/-19 ft)	48.50 ft
	W: 76° 32' 03.6" (+/- 19 ft)	
Right	N: 39° 19' 46.1" (+/- 19 ft)	51.81 ft
	W: 76° 32' 04.6" (+/- 19 ft)	

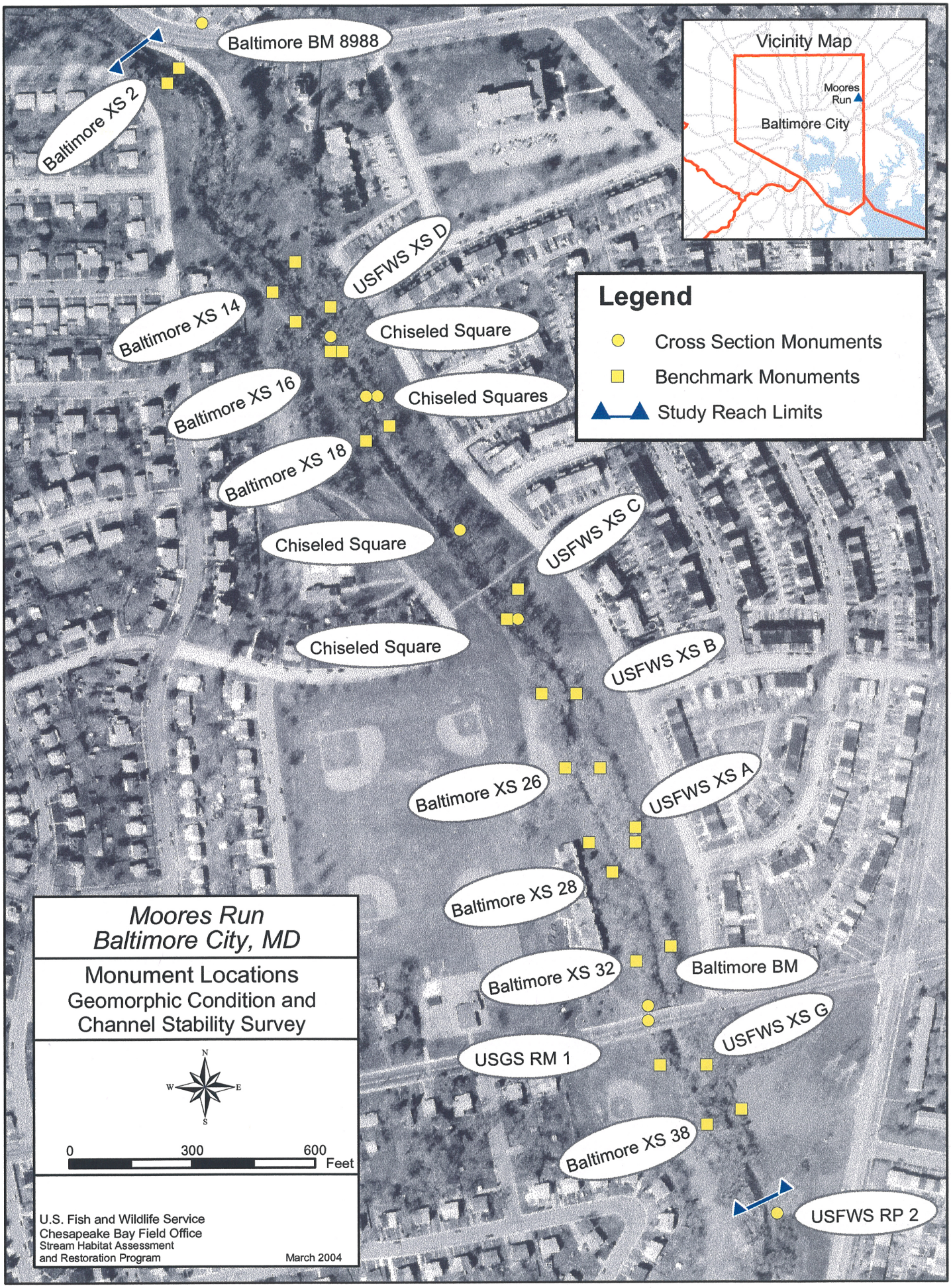
MOORES RUN MONUMENT LOCATIONS

MONUMENT	GLOBAL POSITIONING SYSTEM (GPS) COORDINATE (NAD 83)	ELEVATION (ft) (Baltimore City Datum)
Longitudinal Profile		
USFWS Reference Point 2	N: 39° 19' 44.0" (+/- 18 ft)	48.53 ft
	W: 76° 32' 02.5" (+/- 18 ft)	
USGS Reference Mark 1 (Gage 01585230)	N: 39° 19' 48.6" (+/- 28 ft)	60.08 ft
	W: 76° 32' 06.4" (+/- 28 ft)	
Baltimore City Benchmark (Screw in Radecke Bridge)	N: 39° 19' 49.1" (+/- 21 ft)	56.60 ft
	W: 76° 32' 06.4" (+/- 21 ft)	
Baltimore City Benchmark 8988 (Screw at intersection of Newholme and Hamilton Avenue)	N: 39° 20' 13.0" (+/- 22 ft)	95.66 ft.
	W: 76° 32' 20.0" (+/- 22 ft)	
Chiseled square on culvert (RB) at station 1589'	N: 39° 19' 58.3" (+/- 19 ft)	54.25 ft.
	W: 76° 32' 10.2" (+/- 19 ft)	
Chiseled square on culvert (LB) at station 1893'	N: 39° 20' 00.7" (+/- 16 ft)	61.63 ft.
	W: 76° 32' 12.1" (+/- 16 ft)	
Chiseled square on culvert (LB) at station 2257'	N: 39° 20' 03.8" (+/- 22 ft)	67.15 ft.
	W: 76° 32' 14.7" (+/- 22 ft)	
Chiseled square on boulder (ID as #10) at station 2303'	N: 39° 20' 03.7" (+/- 16 ft)	64.60 ft.
	W: 76° 32' 14.9" (+/- 16 ft)	
Chiseled square on boulder (Near LB – ID as #11) at station 2465'	N: 39° 20' 05.2" (+/- 21 ft)	67.19 ft.
	W: 76° 32' 15.9" (+/- 21 ft)	

Moores Run
Reach 01
USFWS Longitudinal Profile Reference Point 02
(Stream Feature: Riffle)

Reference Point Monument Map




Baltimore BM 8988
Baltimore XS 2
USFWS XS D
Baltimore XS 14
Chiseled Square
Baltimore XS 16
Chiseled Squares
Baltimore XS 18
Chiseled Square
USFWS XS C
Chiseled Square
USFWS XS B
Baltimore XS 26
USFWS XS A
Baltimore XS 28
Baltimore XS 32
Baltimore BM
USFWS XS G
USGS RM 1
Baltimore XS 38
USFWS RP 2
Vicinity Map
Moores Run
Baltimore City
Legend
Cross Section Monuments
Benchmark Monuments
Study Reach Limits
Moores Run
Baltimore City, MD
Monument Locations
Geomorphic Condition and
Channel Stability Survey
N
W
E
S
0
300
600
Feet
U.S. Fish and Wildlife Service
Chesapeake Bay Field Office
Stream Habitat Assessment
and Restoration Program
March 2004