



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-1
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_1 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Saltpeper Creek **Quality of Mark:** Good
Flood Elevation: **7.61 FT** **Location:** Outside wall of Garage
Flooding Type: Surge
Mark Address: 700 Asher Road (east of intersection of Asher Road and Beach Drive). Garage facing north.
Description of Mark: 4' 8" above concrete floor of garage.

Type of Line: Mud line

Description of Physical Structure: concrete garage

Closest City: **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/25/2003

Surveyors: Blackwell, Chrismer **Company/Agency:** URS

Survey Date: 10/3/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.3313 **Easting:** 1,493,373

Longitude: -76.3686 **Northing:** 606,411

Approx. First Floor Elevation (Based on Measurement from Mark): 2.94 FT

Approx. Distance to Shoreline: 10 FT

Comments:

Take Carroll island Drive off Eastern Avenue (Extended). Make a left on Beach Drive, and another left on Asher Road. Garage is facing the road.



DSCN0001.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-2
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_2 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Seneca Creek **Quality of Mark:** Good
Flood Elevation: **8.16 FT** **Location:** Outside building wall
Flooding Type: Wave runoff
Mark Address: 728 Nollmeyer Road
Description of Mark: 3' 8" from LAG just outside garage

Type of Line: Mud line

Description of Physical Structure: wood garage

Closest City: **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/25/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 10/3/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.3252 **Easting:** 1,487,740

Longitude: -76.3843 **Northing:** 602,730

Approx. First Floor Elevation (Based on Measurement from Mark): N/A

Approx. Distance to Shoreline: 100 FT

Comments:

Almost 4 foot inundation seen clearly in the inside of the garage. Mark transferred to the outside. Property owner says garage will be left open for surveyors. Prop. Owner says the FFE for his house is 10 foot, and that was flooded with ~8 inches of water



DSCN0002.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-3
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_3 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Galloway Creek **Quality of Mark:** Good
Flood Elevation: **7.46 FT** **Location:** Outside wall of white garage
Flooding Type: Surge
Mark Address: 1606 Burke Road,
Description of Mark: 2' 10" from concrete floor slab at the outside of the aforementioned white garage.

Type of Line: Mud line

Description of Physical Structure: cinderblock garage

Closest City: **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/25/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 10/3/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.3027 **Easting:** 1,487,790

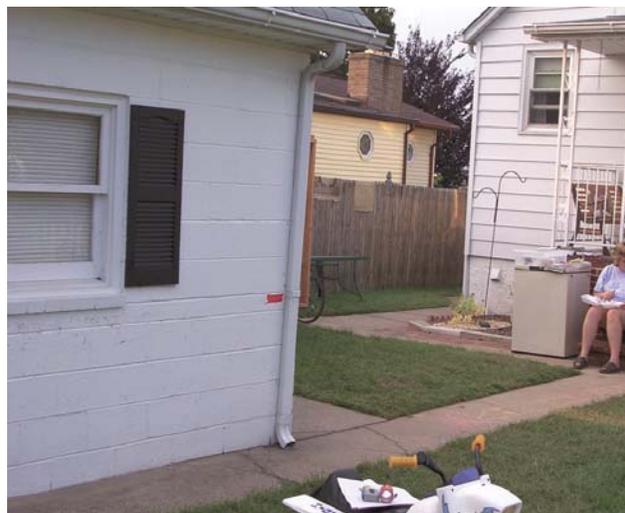
Longitude: -76.3812 **Northing:** 595,445

Approx. First Floor Elevation (Based on Measurement from Mark): 4.63 FT

Approx. Distance to Shoreline: 320 FT

Comments:

Water depth shows to have risen up to about 1 foot or so below the east-facing window sills of the garage (as seen in the picture)



Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project

COMM. NO. 240010

TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-4

CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_5 **Mark Type:** Coastal

Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003

Flooding Source: Sue Creek **Quality of Mark:** Poor

Flood Elevation: **6.83 FT** **Location:** Electric Meter Shed

Flooding Type: Surge

Mark Address: 2426-A Holly Neck Road (off Back River Neck Road)

Description of Mark: 3' 11" from ground to the point shown.

Type of Line: Eyewitness account

Description of Physical Structure: wooden electric meter board

Closest City: **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 10/2/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2843 **Easting:** 1,485,008

Longitude: -76.3972 **Northing:** 588,142

Approx. First Floor Elevation (Based on Measurement from Mark): 2.91 FT

Approx. Distance to Shoreline: 80 FT

Comments:

Location of current spot is Sue Creek- just before its confluence with Middle River. Eyewitness also submitted a photo taken by him on the 19th (Friday) showing the floodwaters receding



DSCN0004.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-5
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_6 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Back River **Quality of Mark:** Good
Flood Elevation: **7.4 FT** **Location:** Red Diesel Tank
Flooding Type: Surge
Mark Address: 1311 Wildwood Beach Road
Description of Mark: 14" from ground slab

Type of Line: Mud line

Description of Physical Structure: above ground diesel tank

Closest City: **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 10/2/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2539 **Easting:** 1,473,754

Longitude: -76.4323 **Northing:** 577,142

Approx. First Floor Elevation (Based on Measurement from Mark): 6.23 FT

Approx. Distance to Shoreline: 10 FT

Comments:



DSCN0005.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



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COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-6
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_7 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Deep Creek **Quality of Mark:** Poor
Flood Elevation: **8.51 FT** **Location:** Front of house
Flooding Type: Wave runoff
Mark Address: 401 Walnut Grove Road (last house on the street)
Description of Mark: ~3 feet from the bottom of the 1st step.

Type of Line: Eyewitness account

Description of Physical Structure: wood shed

Closest City: Hyde Park **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrismer **Company/Agency:** URS

Survey Date: 10/2/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2871 **Easting:** 1,468,024

Longitude: -76.4534 **Northing:** 588,034

Approx. First Floor Elevation (Based on Measurement from Mark): 5.51 FT

Approx. Distance to Shoreline: 330 FT

Comments:

Neighbor (Mrs. Ritter) says occupant of 410 died in August, and house was vacant, when it got flooded . No HW marks seen on the outside, however, Mrs. Ritter says the water reached about the handle of the outside door (about 3' 2" from the front step.



DSCN0006.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-7
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_9 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Old Road Bay **Quality of Mark:** Good
Flood Elevation: 11 FT **Location:** debris line
Flooding Type: Wave height
Mark Address: Inside Fort Howard Veterans Affairs Dept area. 200 feet east of Gettysburg Road & Washington Drive
Description of Mark: None

Type of Line: Debris line

Description of Physical Structure: N/A

Closest City: Fort Howard **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrismer **Company/Agency:** URS

Survey Date: 10/31/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.1980 **Easting:** 1,471,056

Longitude: -76.4469 **Northing:** 555,271

Approx. First Floor Elevation (Based on Measurement from Mark): N/A

Approx. Distance to Shoreline: 250 FT

Comments:

Red paint on tree indicated approximate location. Debris line of poor quality, may actually be wave action.



Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.

DSCN0007.jpg



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-8
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT2_10 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Back River **Quality of Mark:** Good
Flood Elevation: **6.91 FT** **Location:** side wall of garage
Flooding Type: Surge
Mark Address: 7401 Chesapeake Avenue. 20 feet from junction of Chesapeake Avenue and Main Ave. White garage
Description of Mark: 17 " from outside ground

Type of Line: Mud line

Description of Physical Structure: stucco garage

Closest City: Edgemere **County:** Baltimore **State:** Maryland

Flaggers: Bagha **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 10/2/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2417 **Easting:** 1,470,944

Longitude: -76.4405 **Northing:** 573,482

Approx. First Floor Elevation (Based on Measurement from Mark): 5.49 FT

Approx. Distance to Shoreline: 40 FT

Comments:



DSCN0010.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240087
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-9
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_1 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Chesapeake Bay **Quality of Mark:** Fair
Flood Elevation: **7.6 FT** **Location:** outside
Flooding Type: Surge
Mark Address: 700 S. Caroline Street
Description of Mark: 56" above garage floor

Type of Line: Discoloration

Description of Physical Structure: brick building

Closest City: Baltimore **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry

Flagging Date: 9/25/2003

Surveyors: Thigpen, Walker **Company/Agency:** Greenhome & O'Mara, Inc.

Survey Date: 10/15/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2830 **Easting:** 1,428,394

Longitude: -76.5967 **Northing:** 587,825

Approx. First Floor Elevation (Based on Measurement from Mark): 2.9 FT

Approx. Distance to Shoreline: 730 FT

Comments:



DSCN0001.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240087
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-10
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_2 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Chesapeake Bay **Quality of Mark:** Fair
Flood Elevation: **7.5 FT** **Location:** Outside
Flooding Type: Surge
Mark Address: City Pier Broadway
Description of Mark: 3 feet

Type of Line: Discoloration

Description of Physical Structure: building

Closest City: Baltimore **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry

Flagging Date: 9/25/2003

Surveyors: Thigpen, Walker **Company/Agency:** Greenhome & O'Mara, Inc.

Survey Date: 10/15/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2808 **Easting:** 1,428,394

Longitude: -76.5925 **Northing:** 587,825

Approx. First Floor Elevation (Based on Measurement from Mark): 4.5 FT

Approx. Distance to Shoreline: 10 FT

Comments:



DSCN0003.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240087
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-11
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_3 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Chesapeake Bay **Quality of Mark:** Poor
Flood Elevation: **7.73 FT** **Location:** outside
Flooding Type: Surge

Mark Address:

Description of Mark: 1 foot 2 inches from bottom of bench leg

Type of Line: Mud line

Description of Physical Structure: wood post

Closest City: Baltimore **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry

Flagging Date: 9/25/2003

Surveyors: Blackwell, Chrismer **Company/Agency:** URS

Survey Date: 9/29/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2811 **Easting:** 1,428,394

Longitude: -76.5923 **Northing:** 587,825

Approx. First Floor Elevation (Based on Measurement from Mark): 4.73 FT

Approx. Distance to Shoreline: 40 FT

Comments:

Café bench 2nd set in from pier next to damaged deck



DSCN0008.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240087
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-12
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_5 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Chesapeake Bay **Quality of Mark:** Fair
Flood Elevation: **7.52 FT** **Location:** outside
Flooding Type: Surge
Mark Address: 700 S Caroline Street
Description of Mark: 56" ABOVE GARAGE FLOOR

Type of Line: Eyewitness account

Description of Physical Structure: concrete garage

Closest City: Baltimore **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 9/28/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

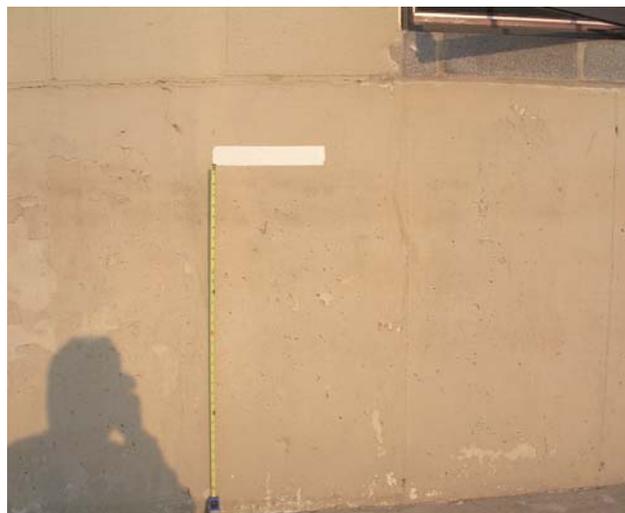
Latitude: 39.2829 **Easting:** 1,428,394

Longitude: -76.5971 **Northing:** 587,825

Approx. First Floor Elevation (Based on Measurement from Mark): 2.85 FT

Approx. Distance to Shoreline: 650 FT

Comments:



DSCN0004.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240087
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-13
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_8 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Patapsco River **Quality of Mark:** Fair
Flood Elevation: **6.4 FT** **Location:** outside
Flooding Type: Surge
Mark Address: 2021 South Clinton Street Baltimore, MD
Description of Mark: 1.5 inches above pier

Type of Line: Debris line

Description of Physical Structure: N/A

Closest City: Baltimore **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 9/29/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2669 **Easting:** 1,434,090

Longitude: -76.5727 **Northing:** 580,567

Approx. First Floor Elevation (Based on Measurement from Mark): 5.9 FT

Approx. Distance to Shoreline: 10 FT

Comments:



DSCN0011.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240087
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-14
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_10 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Patapsco River **Quality of Mark:** Fair
Flood Elevation: **7.38 FT** **Location:** In/Out
Flooding Type: Surge
Mark Address: 3800 New Gate Road Guard Shack
Description of Mark: 6 Inches above floor

Type of Line: Debris line
Description of Physical Structure: brick building
Closest City: Baltimore **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry
Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS
Survey Date: 9/30/2003 **Survey Type:** N/A
Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83
Latitude: 39.2607 **Easting:** 1,436,921
Longitude: -76.5634 **Northing:** 580,580

Approx. First Floor Elevation (Based on Measurement from Mark): 6.88 FT

Approx. Distance to Shoreline: 230 FT

Comments:



DSCN0024.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240087
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-15
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_11A **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Patapsco River **Quality of Mark:** Fair
Flood Elevation: **7.56 FT** **Location:** outside
Flooding Type: Surge
Mark Address: 3800 New Gate Road Pier 11
Description of Mark: 33" from ground level

Type of Line: Discoloration

Description of Physical Structure: metal building

Closest City: Baltimore **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry

Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 9/30/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2612 **Easting:** 1,439,753

Longitude: -76.5594 **Northing:** 580,594

Approx. First Floor Elevation (Based on Measurement from Mark): 4.81 FT

Approx. Distance to Shoreline: 190 FT

Comments:



DSCN0014.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-16
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_16 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Back River **Quality of Mark:** Poor
Flood Elevation: **7.59 FT** **Location:** outside
Flooding Type: Surge
Mark Address: 126 Villa Capri Circle
Description of Mark: 10' above shoreline, above bulk head

Type of Line: Debris line
Description of Physical Structure: N/A

Closest City: **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry
Flagging Date: 9/26/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS
Survey Date: 10/1/2003 **Survey Type:** N/A
Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83
Latitude: 39.3030 **Easting:** 1,459,491
Longitude: -76.4822 **Northing:** 595,269

Approx. First Floor Elevation (Based on Measurement from Mark): -3.59 FT

Approx. Distance to Shoreline: 40 FT

Comments:



DSCN0009.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.



PROJECT FEMA-1492-DR-MD High Water Mark Survey Project
COMM. NO. 240010
TYPE High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** B-17
CONTENTS Individual Historical High Water Mark Survey Report

Historical Mark: UNIT5_11 **Mark Type:** Coastal
Flood Event: Hurricane Isabel **Date of Flood:** 09/19/2003
Flooding Source: Colgate Creek **Quality of Mark:** Fair
Flood Elevation: **14.6 FT** **Location:** Outside Bridge
Flooding Type: Wave height
Mark Address: Broewing bridge over Colgate Creek
Description of Mark: 8-10 feet above shoreline

Type of Line: Debris line

Description of Physical Structure: N/A

Closest City: **County:** Baltimore **State:** Maryland

Flaggers: cannon **Company/Agency:** Dewberry

Flagging Date: 9/27/2003

Surveyors: Blackwell, Chrimer **Company/Agency:** URS

Survey Date: 9/30/2003 **Survey Type:** N/A

Projection: Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

Latitude: 39.2576 **Easting:** 1,445,435

Longitude: -76.5346 **Northing:** 576,980

Approx. First Floor Elevation (Based on Measurement from Mark): 14.6 FT

Approx. Distance to Shoreline: 10 FT

Comments:

Dedbris line of poor quality, may actually be wave action.



DSCN0029.jpg

Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.