



**BOUCHARD B120 RELEASE
SHORELINE SEGMENT SUMMARY**

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GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: **W1F-01**

SEGMENT NAME: **Brandt Beach**

SEGMENT LOCATION: **Mattapoissett, Massachusetts** (*Map attached*)

MAXIMUM DEGREE OF INITIAL OILING: Heavy (Oiling Score: 2.49)

SEGMENT INSPECTION STATUS: Passed IRAC criteria endpoints on 08/22/2003.

SITE-SPECIFIC INFORMATION

PHYSICAL CHARACTERISTICS:

Primary Shoreline Type/ Geology:

- 1D: Rip rap seawalls, bulkheads, piers, docks, and pilings.

Secondary Shoreline Type/ Geology:

- 1B: Less utilized semi-public and private sand beaches; and
- 1C: Mixed sand and gravel (pebble to boulder) and rip rap groins (jetties); and
- 1F: Salt marshes.

Hydrogeology:

- Shaws Cove is located to the west and Buzzards Bay to the south. Fringing salt marsh is located toward the eastern and side of the segment.

Bedrock Geology:

- Bedrock underlying this segment is identified "Alaskite" bedrock formation. This bedrock consists of mafic-poor gneissic granite commonly containing muscovite (Zen, 1983).

ENVIRONMENTAL SENSITIVE RECEPTORS (Identified within 500 feet of segment):

Aquifer: None at segment.

Protected Open Space: At segment.

Public Ground Water Supply Wells: None at segment.

Public Surface Water Supply Wells: None at segment.

Areas of Critical Environmental Concern (ACEC): None at segment.

Vernal Pools: None at segment.

Priority Habitats of Rare Species: Adjacent to segment: Buzzards Bay aquatic environment.

Estimated Habitats of Rare Wildlife: Adjacent to segment: Buzzards Bay aquatic environment.

Floodplains: At segment: 100-year floodplain.

HUMAN SENSITIVE RECEPTORS (Identified within 500 feet of segment):

Segment Use: Private and semi-public beach and marsh. Residential dwellings are located within 500 feet of the segment. A portion of segment is accessible via roadway.

Frequency of Use: Presumably seasonal and year round residential use.

SUMMARY OF INSPECTION ACTIVITIES

WRF INSPECTIONS

(Wildlife Field Reconnaissance - Shoreline or On-Water Observations; Bird Transect Study.)

WRF inspections pertaining to this segment were not conducted.

NRDA FIELD ACTIVITIES SUMMARY

(Natural Resource Damage Assessment)

Note: Includes Shoreline Cleanup Assessment Team (SCAT) inspections and activities. SCAT forms were completed by field inspection teams working under the direction of Unified Command.

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
05/07/2003	Area of heavy oil coating (approximately 1 to 9 feet wide by 98 to 344 feet long with 1% to 50% surface oil coverage) was observed. Several areas of pavement, tarballs, and tar patties (ranging between 1 foot to 20 feet in diameter) were observed along the segment. Oiled wrack was also observed in the upper intertidal zone. Additional cleanup activities were warranted.
05/11/2003	Heavy and pooled oil observed near beach. Tarballs and tar patties also observed. The observed surface oil coverage was 11% to 50%. One area (approximately 6 to 9 feet wide and 100 feet long) observed with oiled wrack mixed with tar patties and pavement. One area (approximately 3 by 1,000 feet) with tarballs and tar patties (approximately less than 1% surface oil coverage) was observed. Cleanup crew was on-site during the inspection.
05/23/2003	Continued maintenance and ongoing cleanup activities observed.

IRAC INSPECTIONS

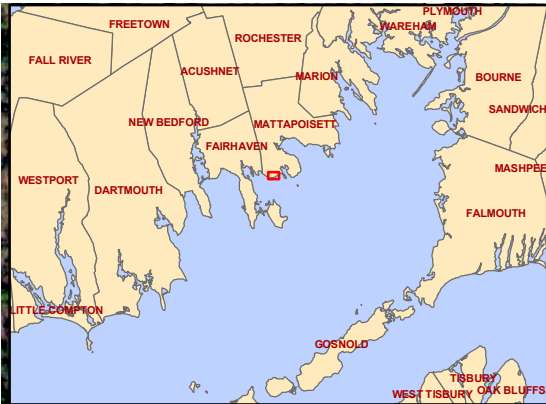
(Unified Command Immediate Response Action Completion inspections and activities).

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
08/22/2003	Splatter on rock surface observed. Citizen concerned about algae that looked similar to oil. Segment met IRAC criteria endpoints.

MCP FIELD ACTIVITIES SUMMARY

(Massachusetts Contingency Plan inspections and activities under the direction of the Licensed Site Professional-of-Record.)

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
11/05/2003	Site reconnaissance and potential buried oil inspection: Trace surficial splatter observed.
11/07/2003	Site reconnaissance: Portion of segment (primarily Howards Beach) was inspected during cleanup activities conducted at W1F-02. Evidence of oil was not recorded.
01/05/2004	Site reconnaissance and potential buried oil inspection: Splatter primarily scoured to a stain was observed on boulders. One tarball under a rock was removed.
02/19/2004	IRA citizen report of oil and field response: A citizen called GeoInsight on 02/19/2004 to report evidence of oil. GeoInsight and the citizen inspected a portion of the segment. Hardened tarballs (ranging approximately 0.5 to 6 inches in diameter) unrelated to the B120 release were observed concentrated in two areas on the rocky shoreline.
03/30/2004	Site reconnaissance: Evidence of oil was not recorded for this segment.
04/05/2004	Site reconnaissance and potential buried oil inspection: Very trace splatter (pea- to quarter-size) scoured to a stain on cobbles was observed primarily in upper intertidal zone.



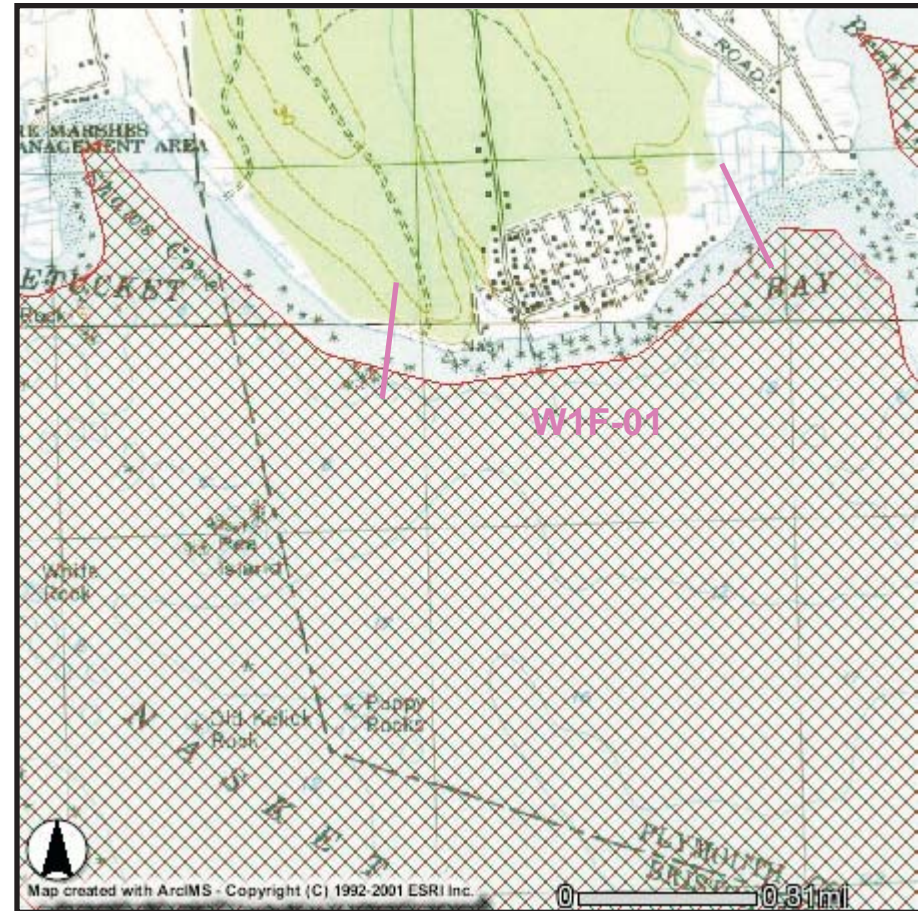
0 250 500 1,000 Feet



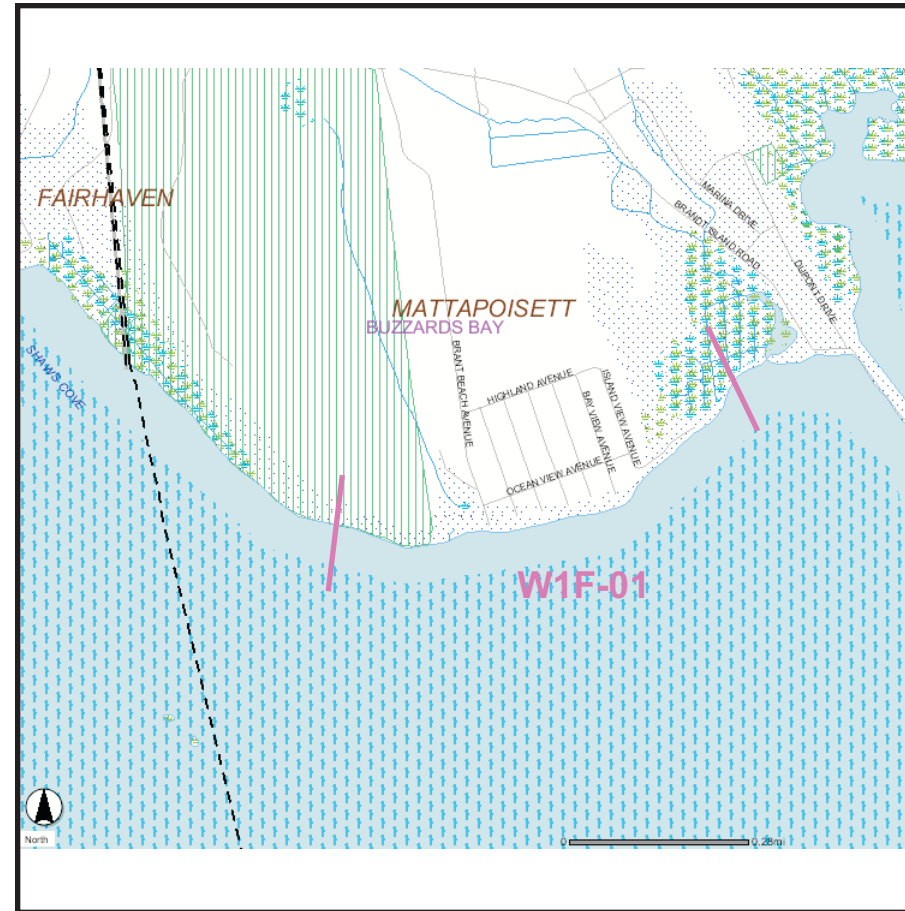
E N T R I X

W1F-01
Brandt Beach
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA

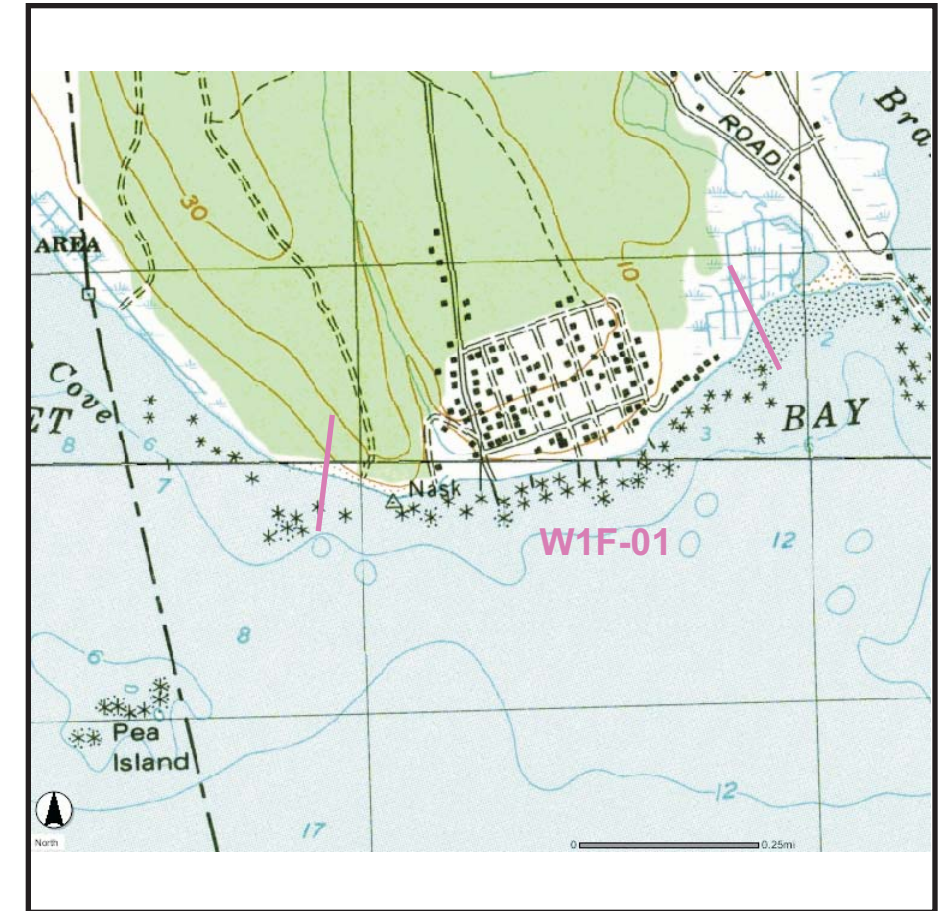
NATURAL HERITAGE AND ENDANGERED SPECIES MAP



2IE PRIORITY RESOURCE MAP



TOPOGRAPHIC MAP










































LEGEND


 NHESP 2005 MA PRIORITY HABITATS FOR STATE-PROTECTED RARE SPECIES

 NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

DEP MCP 21e Map Legend

-  Zone IIs
 -  IWPAs
 -  Zone A
 -  Sole Source Aquifers
 -  Solid Waste Sites
 -  Protected Openspace
 -  ACECs
 -  NHESP Estimated Habitat of Rare Wildlife in Wetland Areas
 -  Certified Vernal Pools 2003 NHESP
 -  Subbasins
 -  Mass Major Basins
 -  DEP Region
 -  Town Arcs
 - County Boundaries
-  HIGH YIELD
 -  MEDIUM YIELD
 -  HIGH YIELD
 -  MEDIUM YIELD
 -  100 YEAR FLOODPLAIN
 -  WATER
 -  RESERVOIR
 -  WETLANDS
 -  SALT WATER WETLANDS
 -  FLATS SHOALS
 -  PERENNIAL
 -  INTERMITTENT
 -  SHORELINE
 -  MAN MADE SHORE
 -  DAM
 -  AQUEDUCT
 -  LIMITED ACCESS HIGHWAY
 -  MULTILANE HWY, NOT LIMITED ACCESS
 -  OTHER NUMBERED HWY
 -  MAJOR ROAD - COLLECTOR
 -  MINOR STREET OR ROAD, RAMP
 -  TRACK
 -  TRAIL
 -  PIPELINE
 -  POWERLINE
 -  TRAIN



		PROJECT: B120 OIL SPILL		
		LOCATION: BRANDT BEACH BUZZARDS BAY, MA		
TITLE: PHASE II SUPPORTING MAPS				
DESIGNED: LAC	DRAWN: JKB	CHECKED: KDT	APPROVED: MJW	FIGURE #: WIF-01
SCALE: AS SHOWN	DATE: 01/25/06	FILE: 3871WIF-01	PROJECT #: 3871-002	



Map Document: (J:\Ar\view\7079607 - BuzzardsBaySpill\Geoinsight\Report 1-05\Shoreline Segment Summary rev RR 6-05-06.mxd)

Trench Location

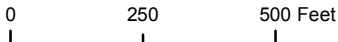
- 11/2004
- 10/2004
- 09/2004
- 08/2004
- 07/2004
- 06/2004
- 04/2004
- 03/2004
- 01/2004
- 12/2003
- 11/2003
- 10/2003
- 09/2003

- ✿ Nearshore Subtidal Sediment Sampling Location 2004
- ✿ Deep Subtidal Sediment Sampling Location 2004
- ✿ Subtidal Sediment Sampling Location 2003
- ▲ Qualitative Shellfish Surveys 2004
- ◆ Marsh Sampling Location 2004
- ◆ Marsh Core Sampling Location 2004
- Water Sampling Location 2004
- Water Sampling Location 2003
- ★ Intertidal Sediment Sampling Location 2003
- ★ Intertidal Sediment Sampling Location 2004

- ✦ Shellfish Sampling Location
- ▲ Chain Drag Location 2003
- ▲ Chain Drag Location 2004
- Lobster Pot Sampling Location 2003
- Absorbent Pad Sampling Location 2003
- ⚓ Dive Sites
- ⚓ Wetlands
- Nests
- ⊕ Vernal Pool
- ⊕ NHESP 2003 Priority Habitats for State-Protected Rare Species

OILING

- NO DATA
 - CLEAN
 - VERY LIGHT
 - LIGHT
 - MEDIUM
 - HEAVY
- IRAC ESI**
- Public-Private Sand Beach (1A/1B)
 - Mixed Sand and Gravel (1C)
 - Marsh (1F)
 - Rocky Shoreline (1E)
 - Riprap, Groin, Jetty (1D)
 - Visual Inspection of Marsh Area



ENTRIX

W1F-01
Brandt Beach, Mattapoisett
Comprehensive Activities
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA