



**BOUCHARD B120 RELEASE
SHORELINE SEGMENT SUMMARY**

5 Lan Drive, Suite 200
Westford, Massachusetts 01886
Tel. (978) 692-1114
Fax (978) 692-1115

GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: **E1-13**

SEGMENT NAME: **Nye's Neck**

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

MAXIMUM DEGREE OF INITIAL OILING: Heavy (Oiling Score: 2.92)

SEGMENT INSPECTION STATUS: Did not pass IRAC inspection on 08/06/2003, further treatment feasible. Passed MCP IRA Inspection on 11/11/2003.

SITE-SPECIFIC INFORMATION

PHYSICAL CHARACTERISTICS:

Primary Shoreline Type/ Geology:

- 1C: Mixed sand and gravel, gravel (pebble to boulder), and rip rap groins (jetties).

Secondary Shoreline Type/ Geology:

- 1B: Less utilized semi-public and private sand beaches.

Hydrogeology:

- Megansett Harbor is located to the north, Wild Harbor to the south, and Buzzards Bay to the southwest.

Bedrock Geology:

- Bedrock underlying this segment is identified as undivided granite, gneiss, and schist (Zen, 1983).

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

Aquifer: At segment: EPA-designated sole source and MADEP-designated medium yield potentially productive aquifer.

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 public beach and rocky shore. Residential dwellings are located within 500 feet of the segment. Portions of the segment are accessible via roadway.

Frequency of Use: 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
05/13/2003	Few tarballs, oil-stained rocks, and oiled debris observed at the western portion of the segment. Some tarballs were partially buried. In general, less than 1% surface oil distribution was observed.
05/14/2003	Some areas of oil (up to approximately 10 by 15 feet) were observed between two jetties near N41°38.444' W70°38.712' and from southern boat ramp into marsh to northern boat ramp between N41°38.429' W70°38.642' and N41°38.525' W70°38.640'. Very lightly oiled wrack, few tarballs, and washed up oiled boom and other oil-absorbent material were observed near this area in the upper tidal zone. Near 3 rd Street, trace to moderate oiling observed, and near the Point, approximately 11% to 50% surface oil coating in the upper intertidal zone was observed. Approximately 51% to 90% surface oil cover observed on rocks between 3 rd Street to fifth jetty out. Trace oil was observed between Sunset Point to Fiddlers Cove. Cleanup crews were actively working on-site during the inspection.
05/25/2003	A discontinuous band of surface oil, coating an area approximately 10 feet wide along the majority of the segment was observed. Splatter on rock and oil trapped in jetties were observed, including a 3 by 6 foot area of oil observed near N41°38.313' W70°39.053'. Tarballs and wrack patties observed in upper tidal zone. Cleanup crews were actively working on-site during the inspection.
05/31/2003	Cobble beaches observed to have a surface oil coat or stain with a distribution of 1% to 50% of oil residue, including sporadic areas of pavement and oiled wrack, as well as sheen in a few puddles. Light to moderate splatter observed on pilings, concrete seawall and rip rap observed. One area of marsh in the harbor was noted to have 25% to 50% coverage of asphalt pavement less than 1 inch thick. A large tarp determined to be approximately the size of a flat bed-truck was in the process of being removed during the inspection. Cleanup crews were actively working on-site during the inspection.

IRAC INSPECTIONS

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

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
08/06/2003	A large area (approximately 6 by 100 feet) with approximately 25% splatter cover was observed near 1 st and 2 nd Streets. Splatter was also concentrated near 50 Westwood Road. Cleanup crews actively working on-site during the inspection. Segment did not meet IRAC criteria endpoints and further treatment was feasible.

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
11/11/2003	Site reconnaissance: Trace dried splatter observed. Three tarballs found and removed.
04/06/2004	Site reconnaissance: Trace and sporadic dried splatter (pea to quarter-size) was observed on cobbles and boulders.
08/25/2004	Site reconnaissance: Stain was observed on a boulder at N41°38.756' W70°38.922'. Splatter (up to 2 inches in diameter) observed along the rocky shoreline in the middle intertidal zone between N41°38.566' W70°39.012' and N41°38.444' W70°39.003'. Dime-size to 6-inch diameter splatter was consistently observed along the upper intertidal zone between N41°38.313' W70°39.093' and N41°38.372' W70°39.011'. A cluster of tacky splatter (approximately 12 inches in diameter) observed on a groin at N41°38.360' W70°39.198', and approximately 2 feet west, pavement (approximately 8 inches in diameter and 2 inches thick) observed under cobble. Pavement (2 inches diameter and 4 inches thick) was observed between boulders at N41°38.286' W70°39.172'. The pavement was not removed. Visible inspection limited due to heavy wrack cover (approximately 70%).

Note: GeoInsight did not receive IRA citizen calls pertaining to this segment.



E1-13

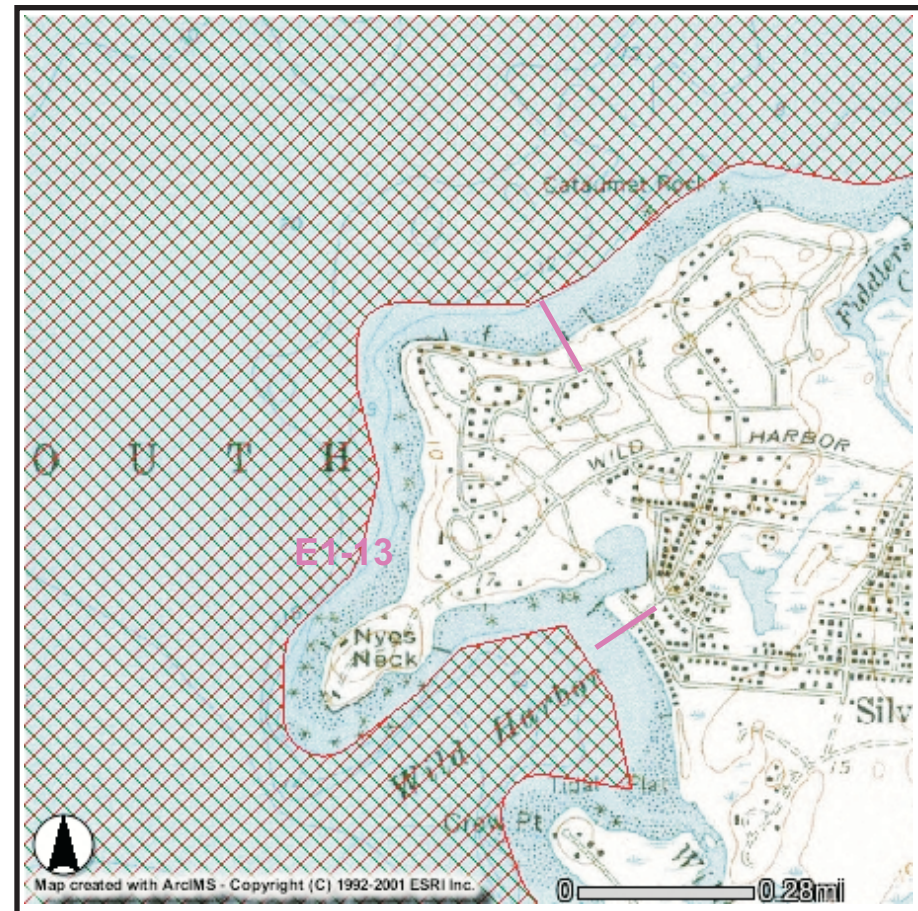


0 250 500 1,000 Feet

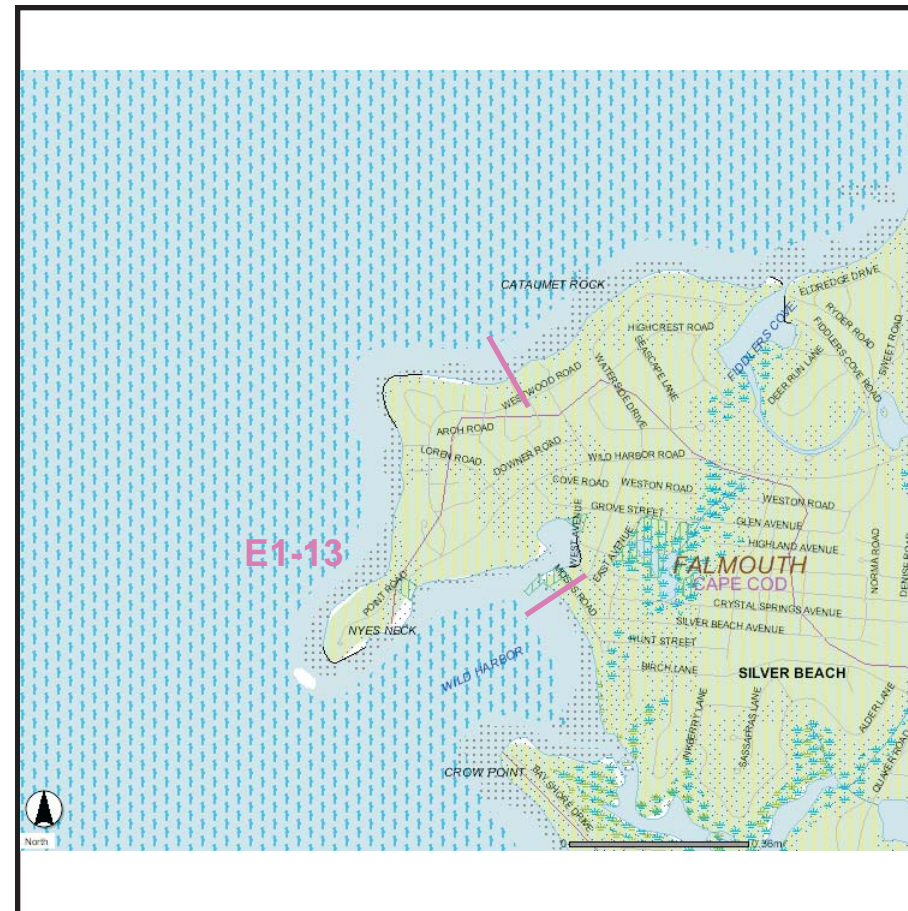


E N T R I X
E1-13
Nye's Neck
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA

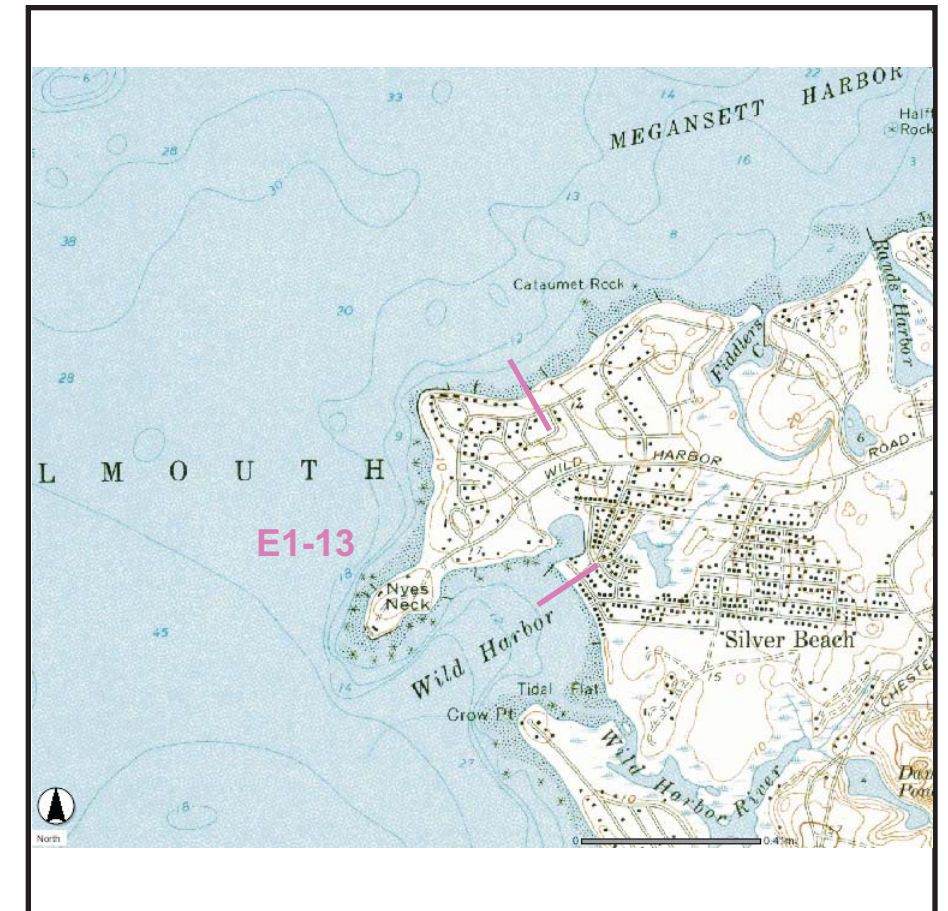
NATURAL HERITAGE AND ENDANGERED SPECIES MAP



21E PRIORITY RESOURCE MAP



TOPOGRAPHIC MAP



LEGEND

NHESP 2005 MA PRIORITY HABITATS FOR STATE-PROTECTED RARE SPECIES

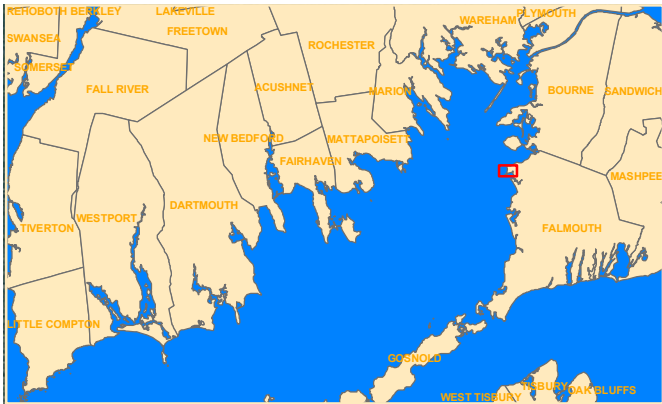
NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

DEP MCP 21e Map Legend

- Zone IIs
 - IWPA's
 - 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
- Aquifers, By Yield
 - HIGH YIELD
 - MEDIUM YIELD
 - Non Potential Drinking Water Source Area
 - HIGH YIELD
 - MEDIUM YIELD
 - FEMA Floodplains
 - 100 YEAR FLOODPLAIN
- Hydrography
 - WATER
 - RESERVOIR
 - WETLANDS
 - SALT WATER WETLANDS
 - FLATS SHOALS
 - Rivers and Streams
 - PERENNIAL
 - INTERMITTENT
 - SHORELINE
 - MAN MADE SHORE
 - DAM
 - AQUEDUCT
- EOT-OTP Roads
 - LIMITED ACCESS HIGHWAY
 - MULTILANE HWY, NOT LIMITED ACCESS
 - OTHER NUMBERED HWY
 - MAJOR ROAD - COLLECTOR
 - MINOR STREET OR ROAD, RAMP
 - Tracks and Trails MHD
 - TRACK
 - TRAIL
 - Transmission Lines
 - PIPELINE
 - POWERLINE
 - TRAIN



		PROJECT:		B120 OIL SPILL	
		LOCATION:		NYES NECK BUZZARDS BAY, MA	
TITLE: PHASE II SUPPORTING MAPS					
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	FIGURE #: EI-13	
LAC	JKB	KDT	MJW		
SCALE:	DATE:	FILE:	PROJECT #:		
AS SHOWN	01/05/06	3871EI-13	3871-002		



Map Document: (J:\Arview\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

0 250 500 Feet



ENTRIX

E1-13
Nye's Neck, Falmouth
Comprehensive Activities
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA