BOUCHARD B120 RELEASE SHORELINE SEGMENT SUMMARY



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GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: E1-14

SEGMENT NAME: New Silver Beach (Sunset Point)

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

MAXIMUM DEGREE OF INITIAL OILING: Clean (Oiling Score: <1.00)

SEGMENT INSPECTION STATUS: Passed IRAC inspection on 08/28/2003.

SITE-SPECIFIC INFORMATION

PHYSICAL CHARACTERISTICS:

Primary Shoreline Type/ Geology:

• 1A: Heavily utilized, public recreational sand beaches.

Secondary Shoreline Type/ Geology:

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

Hydrogeology:

• Wild Harbor is located to the west, Wild Harbor River to the southeast, and Buzzards Bay to the southwest. The southern portion of the segment is saltwater wetlands.

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):

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

Protected Open Space: At segment.

<u>Public Ground Water Supply Wells</u>: 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.

<u>Priority Habitats of Rare Species</u>: 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 marsh. Residential dwellings are located within 500

feet of the segment. The segment is accessible via roadway.

Frequency of Use: Seasonal and year round residential use.

SUMMARY OF INSPECTION ACTIVITIES

WRF INSPECTIONS

(Wildlife Field Reconnaissance Form - 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
05/19/2003	Buried oil inspection: Sporadic buried oil (approximately 1 centimeter flecks) observed.
	Splatter on rocks, sand, and shells observed on north side of jetty. Tarballs concentrated in two
	areas (approximately 50 by 6 meters and 150 by 5 meters) were observed, estimated to have a 1
	to 2% surface oil distribution. Dead wildlife was observed (1 species of fish).
05/23/2003	Cleanup activities ongoing. Further maintenance warranted.
05/31/2003	Evidence of oil was not observed. Cleanup crews on-site to remove wrack and oil-absorbent
	material.

IRAC INSPECTIONS

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

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
08/28/2003	Buried oil and shoreline inspection: Evidence of oil was not observed. 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.)

MCP inspections pertaining to this segment were not conducted. GeoInsight did not receive IRA citizen calls pertaining to this segment.

TABLE 1 SAMPLE SUMMARY

BUZZARDS BAY, MASSACHUSETTS

SEGMENT: E1-14

New Silver Beach (Wild Harbor), Falmouth

Sample ID	Date Collected	Matrix	Anglycic	Laboratory	Sampling Sample Location Coordinates Sample Location		Sample Location	Comments	
Sample 1D	Date Collected Wia	Matrix	Matrix	Laboratory	Program	Latitude	Longitude	Description	Comments
WH-SED-S	5/13/2003	Sediment	PAH, TOC, EPH	B&B GAI	NRDA Pre- Assessment	N41°38.190'	W'70°38.650'	Subtidal sediment	Composite Sample

NOTES:

1. B&B: B&B Laboratories.

2. GAI: Groundwater Analytical, Inc.

TABLE 2 SUMMARY OF ANALYTICAL RESULTS BUZZARDS BAY, MASSACHUSETTS SEGMENT: E1-14

New Silver Beach (Wild Harbor), Falmouth

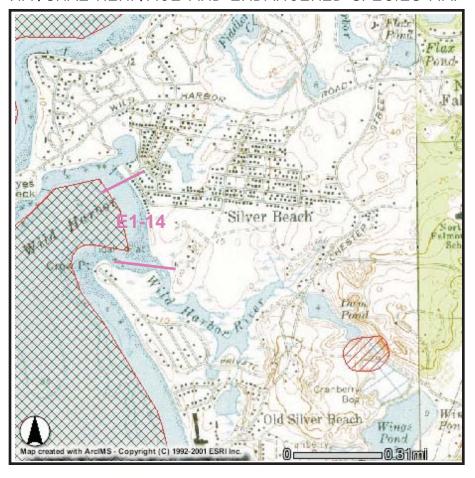
	WH-SED-S	Effects Range-Low
Analyte	Subtidal Sediment	Benchmarks Marine Sediments
	5/13/2003	ER-L
ЕРН		
C ₉ -C ₁₈ Aliphatic Hydrocarbons	ND(37)	NA
C ₁₉ -C ₃₆ Aliphatic Hydrocarbons	ND(37)	NA
C ₁₁ -C ₂₂ Aromatic Hydrocarbons	ND(37)	NA
PAH by GC/MS-SIM by		
method 8270C		
Naphthalene	0.0011	0.160
2-Methylnapthalene	0.0002j	0.070
Acenaphthylene	ND(0.0002)	0.044
Acenaphthene	ND(0.0001)	0.016
Fluorene	0.0001j	0.019
Phenanthrene	0.0003	0.240
Anthracene	0.0001j	0.085
Fluoranthene	0.0003	0.600
Pyrene	0.0004	0.665
Benzo(a)anthracene	0.0002	0.261
Chrysene	0.0005	0.384
Benzo(b)fluoranthene	0.0003	NA
Benzo(k)fluoranthene	0.0001j	NA
Benzo(a)pyrene	0.0002j	0.430
Indeno(1,2,3-c,d)pyrene	0.0002j	NA
Dibenzo(a,h)anthracene	0.0001j	0.063
Benzo(g,h,i)perylene	0.0003	NA
Total Organic Carbon (%)	0.09	NA
Total Petroleum Hydrocarbons	NS	NA

NOTES:

- 1. Results in mg/Kg (milligrams per kilogram).
- 2. EPH: Extractable Petroleum Hydrocarbons.
- 3. ND(x): Constituent not detected at practical quantitation limits (PQL) noted in parentheses.
- 4. PAH by GC/MS-SIM: Polynuclear Aromatic Hydrocarbon analysis by Gas Chromatography/Mass Spectrometry with Selected Ion Monitoring.
- 5. j: Estimated concentration/ detected below standard laboratory reporting limits.
- 6. Bold values exceed laboratory PQL.
- 7. ER-L: Effect Range LOW (Long and Morgan 1991).
- 8. NA: Not Applicable.
- 9. NS: Not Sampled.



NATURAL HERITAGE AND ENDANGERED SPECIES MAP

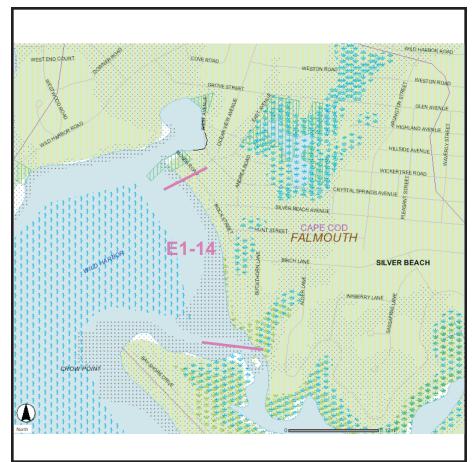


LEGEND

NHESP 2005 MA PRIORITY
HABITATS FOR STATE-PROTECTED
RARE SPECIES

NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

2IE PRIORITY RESOURCE MAP



DEP MCP 21e Map Legend Aquifers, By Yield EOT-OTP Roads Zone IIs HIGH YIELD IWPAs ✔ LIMITED ACCESS HIGHWAY MEDIUM YIELD RESERVOIR OTHER NUMBERED HWY MAJOR ROAD - COLLECTOR SALTWATER WETLAND MINOR STREET OR ROAD, HIGH YIELD Protected Openspace MEDIUM YIELD Rivers and Streams FEMA Floodplains · · TRAIL 100 YEAR FLOODPLAIN INTERMITTENT SHORELINE Transmission Lines MAN MADE SHORE DAM PIPELINE √ Subbasins POWERLINE Mass Major Basins DEP Region XXX TRAIN // Town Arcs

TOPOGRAPHIC MAP

