

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

| | | |
|---|---|-------------------------|
| Project Name | <u>SCUFFLETOWN CREEK</u> | ProjectID: 03-04 |
| Last Updated: | 05/30/01 | |
| City: | Chesapeake | |
| County: | Portsmouth | |
| State: | VA | |
| Country: | USA | |
| Bodies of Water: | Scuffletown Creek; Elizabeth River; James River; Chesapeake Bay | |
| US EPA Region: | III | |
| Status (Active, Complete, or Monitoring Only): | Active | |
| Date On NPL: | | |
| ROD/ESD Date: | | |
| Operable Unit: | | |
| Areas of Concern (length or acres): | Approximately 3 acres near the confluence of Scuffletown Creek and Elizabeth River. | |
| Other Characteristics of Water Body: | Scuffletown Creek is about two-thirds of a mile long and is a tributary to the Southern Branch of the Elizabeth River. The Elizabeth River is a tributary to the James River near its confluence with Chesapeake Bay. Railroad tracks and I-464 run along the shores of Scuffletown Creek. The creek was dammed at Bainbridge Boulevard and much of its wetlands were drained in 1933. | |
| Contaminants of Concern: | PAHs (creosote); heavy metals (including lead, zinc, and chromium) | |
| Source of Contamination: | Creosote Atlantic Wood Industries Superfund site and Wycoff Pipe and Creosote located on the west bank of the Elizabeth River, about a half mile from its confluence with Scuffletown Creek; nearby shipyards (e.g., Norfolk Navy Yard) and stormwater runoff. | |
| Contaminated Area Physical Characteristics: | Scuffletown Creek is a relatively shallow tidal creek with a maximum depth of 4 to 5 feet (many areas are less than 2 feet deep). Reportedly, more than half of the fish sampled in Scuffletown Creek have liver cancer or lesions that could lead to cancer. Elizabeth River sediments reportedly contain contaminants at levels 18 times higher than in Baltimore Harbor, the next most contaminated area in the Chesapeake Bay watershed. | |
| Type of Regulatory Action: | Interim. Part of a joint government/private initiative for a site-wide remedy for the Elizabeth River and Chesapeake Bay watershed | |
| Overall Status Summary: | <p>In January 1999 EA Engineering, Science, and Technology, Inc. was contracted to perform sediment evaluations at four Elizabeth River sites. Two sites were located in the Southern Branch, and one each in the Eastern Branch and Scotts Creek. Selected for the most intense study was an area of the Southern Branch near Scuffletown Creek because of its proximity to known sources of contamination (primarily the Creosote Atlantic Wood Industries Superfund site and Wycoff Pipe and Creosote), its location adjacent to a public park, and other nearby, ongoing restoration efforts.</p> <p>The idea to remove sediment from Scuffletown Creek was initiated by a local community group, the Elizabeth River Project, following reports showing high levels of PAH contaminants in sediment and reportedly high numbers of cancers and lesions on fish collected from the creek. The USACE Norfolk District has agreed to perform the work which will include removal of about 60,000 cy of sediment at a proposed cost of \$6 million.. Sixty-five percent of the funding will be from federal sources and the remaining will be from the cities of Norfolk, Portsmouth, Virginia Beach and Chesapeake and the Commonwealth of Virginia. The project is being labeled as a demonstration project to establish a precedent for future larger environmental dredging projects</p> | |

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in the Chesapeake Bay watershed.

The USACE Norfolk District completed a Draft Feasibility Study in March 2001 and anticipates issuing a final report in June 2001. Reportedly, the primary issue yet to be resolved is how and where to dispose of the removed sediment. Dredging could start as early as 2003.

Remedial Action Planned:



Risk Assessment:



Remedial Action Implemented:



Status of Dredging



PRPs:



Contacts:



References:



Modeling:



Fishing Advisory:



Key Conditions:

wetlands

REMEDIAL ACTION PLANNED

| | | |
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| Project Name | <u>SCUFFLETOWN CREEK</u> | ProjectID: 03-04 |
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| Target Sediment Cleanup Standards (TSCS): | 0.6 Mean ERM SQV - The Sediment Quotient Value (SQV) is calculated by dividing the concentration of a contaminant in a sample by its sediment benchmark [i.e., the Effects Range Mean (ERM)] in the creek. The SQV is calculated for each chemical of concern for a given location, and the scores are averaged. Based on this value, contours are drawn to delineate the "hot spots". For Scuffletown Creek, it was decided that 0.4, 0.6, and 0.8 would be the SQV values that would be contoured. The selection of 0.6 Mean ERM SQV was based on a cost effectiveness/benefits analysis. | |
| How TSCS Established: | Based on incremental cost analysis and environmental impact analysis (i.e., implementation costs and expected benefits comparison) | |
| Target Bank and Floodplain Cleanup Levels (if applicable): | | |
| Other Target: | | |
| Environmental Sample Data References: | <ul style="list-style-type: none">• Sediment:• Water:• Fish: | |
| Estimated Target Volume: | 60,270 cubic yards of sediment. | |
| Planned Disposal Method: | Landfill disposal. | |
| Estimated Calendar Time to Implement Remedy: | 2002-2003: Preconstruction Engineering and Design to be completed. 2003-2004: Dredging of sediment from Scuffletown Creek and wetland restoration (National Ecosystem Restoration Plan) to be implemented | |
| Estimated Time to Implement Remedy: | | |
| Estimated Cost to Implement Remedy: | \$3.5 to \$5 million for the dredging and another \$3.5 to \$5 million for wetland restoration at nine sites on the Elizabeth River (65% to be obtained from the federal government and the remaining 35% from state and local governments). | |
| Stated Remedial Action Objectives (and Source): | From Reference A-631: <ul style="list-style-type: none">• Restoration of the Elizabeth River should be accomplished by incrementally remediating contaminated areas such as Scuffletown Creek to levels protective of human health and the environment.• Remediation is designed to correct site-specific environmental problems (Scuffletown Creek and vicinity) which may have more far-reaching effects in the river. | |
| Measures of Success to be Used: | Reduced fish tumors and other deformities; restored benthic community health; reduced contaminant level and toxic impacts in sediment; and reduced potential for transfer of contaminants from the sediment to the water and edible fish and shellfish. | |
| Planned Monitoring and Restoration: | Wetland restoration in Scuffletown Creek and other areas in the Elizabeth River Basin. | |

REMEDIAL ACTION PLANNED

Project Name **SCUFFLETOWN CREEK**

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***Agency Position on Sediment
Removal (and Source):***

POTENTIALLY RESPONSIBLE PARTIES

Project Name **SCUFFLETOWN CREEK**

ProjectID: 03-04

PRP Name: PRP INFORMATION NOT RELEASED

PRPID:

Street Address:

City:

State:

KEY CONTACTS

Project Name **SCUFFLETOWN CREEK**

ProjectID: 03-04

Last Name: KEY CONTACT INFORMATION NOT RELEASED

Contact ID:

First Name:

Title:

Company:

Address:

City:

State:

Postal Code:

Work Phone # :

Other Phone #:

Fax # :

Email Address:

REFERENCES

Project Name SCUFFLETOWN CREEK

ProjectID: 03-04

Reference Type: A

ReferenceID: 631

Title: *Draft Feasibility Study and Draft Environmental Assessment
Main Report*

Location: BBL

Category: RI/FS

Prepared by/Author: U.S. Army Corps of Engineers

**Preparer/Author
Address:** Norfolk District
803 Front Street
Norfolk, VA 23510

Prepared For: Distribution

Date Published: March 2001

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 511

Title: *What's new with ... Toxics Reduction in the Chesapeake Bay
Region in 2000*

Location: AEM

Category: Miscellaneous

Prepared by/Author: Chesapeake Bay Program

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: 2000

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 519

Title: *Elizabeth River Environmental Restoration Feasibility Study
Quarterly Newsletter*

Location: AEM

Category: Site Update

Prepared by/Author: U.S. Army Corps of Engineers

**Preparer/Author
Address:** Norfolk District
803 Front Street
Norfolk, VA 23510

Prepared For: General Public

Date Published: 1998/1999 Winter

**Key Words and
Phrases:**

REFERENCES

Project Name SCUFFLETOWN CREEK

ProjectID: 03-04

Reference Type: D

ReferenceID: 201

Title: *Leaders unite to pursue Elizabeth River cleanup*

Location: BBL

Category: Site Update

Prepared by/Author: Paul Clancy

**Preparer/Author
Address:**

Prepared For: The Virginian-Pilot

Date Published: October 6, 2000

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 202

Title: *Money talks for Elizabeth River Army Corps of Engineers to study ways to revive river*

Location: BBL

Category: Site Update

Prepared by/Author: Scott Harper

**Preparer/Author
Address:**

Prepared For: The Virginian-Pilot

Date Published: June 6, 1998

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 203

Title: *Elizabeth cleanup starts here engineers, scientists prepare ambitious plan to remove dangerous chemical pollutants*

Location: BBL

Category: Site Update

Prepared by/Author: Scott Harper

**Preparer/Author
Address:**

Prepared For: The Virginian-Pilot

Date Published: February 22, 1999

**Key Words and
Phrases:**

REFERENCES

Project Name SCUFFLETOWN CREEK

ProjectID: 03-04

Reference Type: D

ReferenceID: 204

Title: *91% of fish in parts of Elizabeth River have pre-cancerous lesions, study finds*

Location: BBL

Category: Site Update

Prepared by/Author: Scott Harper

**Preparer/Author
Address:**

Prepared For: The Viginian-Pilot

Date Published: April 29, 2000

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 205

Title: *Groups watch river project - Plan to dredge toxins in Va. could be applied to Baltimore Harbor "Very tricky operation"*

Location: AEM

Category: Site Update

Prepared by/Author: Joel McCord

**Preparer/Author
Address:**

Prepared For: The Baltimore (MD) Sun

Date Published: February 26, 2001

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 206

Title: *Grass-roots group, others have improved health of Elizabeth River*

Location: BBL

Category: Site Update

Prepared by/Author: Glenn Scott

**Preparer/Author
Address:**

Prepared For: The Viginian-Pilot

Date Published: January 31, 2001

**Key Words and
Phrases:**
