Black Falcon Pier Berths 1 and 2 Dredging
ENVIRONMENTAL NOTIFICATION FORM

Project

Black Falcon Pier Berths 1 and 2 Dredging
88 Black Falcon Avenue
Boston, MA 02128

Applicant

Massachusetts Port Authority
1 Harborside Drive, Suite 200
Boston, MA 02128

Prepared By

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June 2021

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Commonwealth of Massachusetts

Executive Office of Energy and Environmental Affairs
Massachusetts Environmental Policy Act (MEPA) Office

Environmental Notification Form

For Office Use Only

EEA#: _____

MEPA Analyst: _____

The information requested on this form must be completed in order to submit a document electronically for review under the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Black Falcon Pier Berths 1 and 2 Dredging		
Street Address: 88 Black Falcon Avenue		
Municipality: Boston	Watershed: Boston Harbor	
Universal Transverse Mercator Coordinates:	Latitude: 42.3448 Longitude: -71.0232	
Estimated commencement date: Sept. 2021	Estimated completion date: Nov. 2021	
Project Type: Dredging	Status of project design: 75 %complete	
Proponent: Massport		
Street Address: 1 Harborside Drive, Suite 200		
Municipality: Boston	State: MA	Zip Code: 02128
Name of Contact Person: Brad Washburn		
Firm/Agency: Massport	Street Address: 1 Harborside Drive, Suite 200	
Municipality: Boston	State: MA	Zip Code: 02128
Phone: 617-568-3546	Fax:	E-mail: bwashburn@massport.com

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
☐Yes ☒No

If this is an Expanded Environmental Notification Form (ENF) (see 301 CMR 11.05(7)) or a Notice of Project Change (NPC), are you requesting:

a Single EIR? (see 301 CMR 11.06(8)) ☐Yes ☒No
a Special Review Procedure? (see 301CMR 11.09) ☐Yes ☒No
a Waiver of mandatory EIR? (see 301 CMR 11.11) ☐Yes ☒No
a Phase I Waiver? (see 301 CMR 11.11) ☐Yes ☒No
(Note: Greenhouse Gas Emissions analysis must be included in the Expanded ENF.)

Which MEPA review threshold(s) does the project meet or exceed (see 301 CMR 11.03)?

301 CMR 11.03(3)(b)1.f. - >0.5 acres alteration to Land Under the Ocean
301 CMR 11.03(3)(b)3. - >10,000 cubic yards of dredging

Which State Agency Permits will the project require?

Section 401 Water Quality Certification – DEP
WPA Order of Conditions – Boston Conservation Commission / DEP

Identify any financial assistance or land transfer from an Agency of the Commonwealth, including the Agency name and the amount of funding or land area in acres: N/A

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			
Total site acreage	4.2		
New acres of land altered		0	
Acres of impervious area	0	0	0
Square feet of new bordering vegetated wetlands alteration		0	
Square feet of new other wetland alteration		182,000 Land Under the Ocean	
Acres of new non-water dependent use of tidelands or waterways		0	
STRUCTURES			
Gross square footage	n/a	n/a	n/a
Number of housing units	n/a	n/a	n/a
Maximum height (feet)	n/a	n/a	n/a
TRANSPORTATION			
Vehicle trips per day	n/a	n/a	n/a
Parking spaces	n/a	n/a	n/a
WASTEWATER			
Water Use (Gallons per day)	n/a	n/a	n/a
Water withdrawal (GPD)	n/a	n/a	n/a
Wastewater generation/treatment (GPD)	n/a	n/a	n/a
Length of water mains (miles)	n/a	n/a	n/a
Length of sewer mains (miles)	n/a	n/a	n/a

Has this project been filed with MEPA before?
☐ Yes (EEA #_____) ☒No

Has any project on this site been filed with MEPA before?
☒ Yes (EEA # 8695) ☐No

Portions of the project site were dredged in the late 1990s, following review under EEA #8695.

GENERAL PROJECT INFORMATION – all proponents must fill out this section

PROJECT DESCRIPTION:

Describe the existing conditions and land uses on the project site:

The project site consists of the Boston Harbor water sheet, including approximately 4.2 acres of Land Under the Ocean wetland resource area, used as Berths 1 and 2 along the north face of the Black Falcon pier at 88 Black Falcon Avenue in South Boston (see Attachment 2 – Figure 1 – Project Location and Figure 2 – Existing Conditions). Parcels to the west and north of the site are owned by the Boston Economic Development and Industrial Corporation (EDIC) and leased to a number of tenants. Adjacent Federal navigation projects include the 40-foot (deep) dry dock approach channel to the north and the 40-foot Boston Harbor main shipping channel to the east. The entirety of the project site is located within the boundaries of the South Boston Designated Port Area (DPA).

The project site is owned by Massport (approximately 1.6 acres) and the EDIC (approximately 2.6 acres). Berths 1 and 2 currently are used for lay berthing of cruise ships and other vessels, including military vessels, and for the ship to shore transfer of materials by Coastal Cement Corporation, the tenant of an adjoining parcel owned by the EDIC. Approximately 3.1 acres of the site, extending along the length of the pier and to a distance of approximately 150 feet to the north, was dredged by the U.S. Army Corps of Engineers in the late 1990s to restore the berthing area to a depth of -35' to -37' (MLLW). The remaining 1.1 acres of the project site consist of a ±25-foot wide strip of harbor bottom to be dredged to the design depth of -35', with an allowance of two feet of overdredge, along the northern edge of the project site (approximately 0.5 acres) and transitioning side slopes (approximately 0.6 acres). The ±25-foot strip, where depths currently range between -24' and -30', appears to be outside of the area dredged in the late 1990s, though documentation exists that this area was maintained at a depth of at least -30' at the time the area was occupied by the U.S. Navy.

Sediments at the project site consist primarily of black silts. The results of bulk chemistry analyses reveal these sediments to be similar to accumulated sediments in other areas of the DPA (see Attachment 4 – Sediment Sampling Results).

MassGIS data (sourced using OLIVER) indicate that the area is unsuitable habitat for shellfish and is "prohibited" for the growing of shellfish. Further, the area to be dredged does not support beds of submerged aquatic vegetation and is not mapped by the Massachusetts Natural Heritage and Endangered Species Program as either estimated habitat of rare wetland wildlife or priority habitat for rare species.

Describe the proposed project and its programmatic and physical elements:

The proposed project is dredging of Berths 1 and 2 along the north face of the Black Falcon pier for the purpose of restoring and maintaining adequate depths for the safe berthing of vessels engaged in maritime commerce. The dredging will establish a uniform depth at the berths of -35' to -37' (MLLW) within a footprint 900 feet in length by 175 feet in width (see Attachment 2 – Figures 3, 4, and 5). It is estimated that the dredging will generate approximately 23,000 cubic yards of marine sediment, all of which is to be disposed in the Boston Harbor Confined Aquatic Disposal (CAD) cell located in the main shipping channel (see Attachment 2 – Figure 6 – Boston Harbor CAD Cell). Pursuant to the provisions of the Massachusetts Wetlands Regulations at 310 CMR 10.23, dredging within those areas of the project site previously dredged to a depth of at least -35' (MLLW) is defined as "maintenance dredging", while dredging within areas that have not previously been dredged to at least that depth is defined as "improvement dredging". As

indicated above, evidence exists to indicate that the entire project site has been dredged at some time in the past, though documentation of depth to -35' within the area not dredged by the Army Corps in the 1990s has not been found. Accordingly, it is assumed herein that dredging from -30' to -35' within that portion of the project site that was not dredged by the Army Corps in the late 1990s is "improvement dredging". The locations of proposed "maintenance" and "improvement" dredging activities are indicated in Attachment 2 – Figure 4 - Dredging Plan and Figure 5 – Proposed Dredge Section.

All dredging will be conducted from the water using a barge-mounted crane. It is anticipated that an environmental bucket dredge will be used to remove silts to minimize incidental release and resuspension of sediments. In the event that any spot shoals of harder material remain after removal of the silts, a conventional clamshell bucket will be utilized to complete the dredging to establish the required minimum project depth for vessel safety. Dredged material will be placed in a split hull scow and transported directly from the dredge site to the CAD cell.

No dredging will occur during the recommended time-of-year (TOY) restriction period of February 15 through June 30 for the protection of spawning and juvenile development of winter flounder (*Pseudopleuronectes americanus*).

In preparation for filing of this Environmental Notification Form (ENF), Massport reviewed the draft *MEPA Interim Protocol for Environmental Justice Outreach*. A discussion of this protocol, as it applies to the proposed work, is presented in Attachment 1 – Project Narrative.

NOTE: The project description should summarize both the project's direct and indirect impacts (including construction period impacts) in terms of their magnitude, geographic extent, duration and frequency, and reversibility, as applicable. It should also discuss the infrastructure requirements of the project and the capacity of the municipal and/or regional infrastructure to sustain these requirements into the future.

Describe the on-site project alternatives (and alternative off-site locations, if applicable), considered by the proponent, including at least one feasible alternative that is allowed under current zoning, and the reasons(s) that they were not selected as the preferred alternative:

The proposed action is primarily a maintenance activity at an active marine terminal facility owned and operated by Massport, although the dredging of approximately 12 percent of the project site is assumed to be "improvement dredging", as that term encompasses deepening of a previously-dredged area. For the "maintenance dredging" portion of the project, the No Action alternative has been considered.

Maintenance Dredging – No Action Alternative

It has been approximately twenty years since the project site has been dredged and siltation has reduced the depth of the berths limiting the range of vessels Massport can safely accommodate. If no action is taken at this time (i.e., the No Action Alternative), these berths will continue to silt-in, ultimately rendering the site unsuitable for even its current uses. Adoption of such an alternative is not feasible, as it would require Massport to abandon its responsibility to maintain its projects and facilities.

For the "improvement dredging" portion of the project, alternatives include the No Action Alternative, a Reduced Area Alternative, and a Reduced Depth Alternative.

Improvement Dredging – No Action Alternative

A significant user of the existing berths is Coastal Cement Corporation (Coastal Cement), a lessee of adjoining property belonging to EDIC. Currently, barges delivering materials to Coastal Cement are up to 300 feet in length and 75 feet in width. For comparison, cruise ships that use

the berths typically have widths from 85 to 120 feet. Coastal Cement anticipates future needs for berthing facilities capable of accommodating material transport vessels of up to 700 feet in length and approximately 100 feet in width. Accordingly, the future berthing needs of Coastal Cement are for a vessel width of 100 feet plus 75 feet for safe vessel maneuvering into and out of the berths.

The No Action Alternative for the "improvement dredging" portion of the project assumes that dredging is limited to the area of "maintenance dredging" only. This would limit the width of the dredge footprint to approximately 150 feet. The area of "improvement dredging" would be left at a depth ranging from -24' to -30' (MLLW), or approximately five (5) to 11 feet shallower than the minimum -35' required to accommodate anticipated needs. Adoption of this alternative will render the facility unsuitable for Coastal Cement's anticipated use, as there will be insufficient width for safe use of the berths, and restrict the capacity of the berths to accommodate other, similarly-sized vessels.

Improvement Dredging – Reduced Area Alternative

The Reduced Area Alternative considers the option of reducing the width of the "improvement dredging" area to less than the proposed 25 feet. By reducing the width of the proposed dredge footprint, the total volume of dredged material generated and requiring disposal can be reduced, but the area available for safe maneuvering of vessels approaching and departing the berths will be reduced as well. A 75-foot maneuvering area represents the minimum area required to safely maneuver a vessel of the size and design anticipated into its berth; accordingly, any reduction in the proposed width of dredging footprint will require a commensurate reduction in the width of the material transport vessel that can be accommodated at the berths.

The accommodation of a vessel width of 100 feet is essential to the future operation of the berths, as modern vessels are already at such width and it will address the anticipated future needs of a current user. A dredging action that fails to address the berthing requirements of such vessels will adversely affect both the future operations of the existing user and the capacity of Massport to accommodate future demand.

Improvement Dredging – Reduced Depth Alternative

The Reduced Depth Alternative considers the option of dredging over the entirety of the "improvement dredging" area but to a lesser overall depth, with the area used for transitioning from the -35' depth of the "maintenance dredging" area to the existing depth at the outer edge of the "improvement dredging" area. As with the Reduced Area Alternative, this alternative will result in the generation of less material requiring disposal than the proposed action. This alternative will have the same adverse effect on future operations of the berths as the Reduced Area Alternative because the proposed -35' (MLLW) depth is the depth required to accommodate the anticipated needs of the current user. Areas that are not dredged to this minimum depth are not available for the maneuvering of the future material transport vessels.

Alternative dredge spoil disposal options considered by the proponent include reuse as beach nourishment material, unconfined off-shore ocean disposal, and land disposal. The results of site sediment sampling and analysis (see Attachment 5) reveal that the dredge material is comprised in excess of 36 percent fine-grained silt and is, therefore, unsuitable for use as beach nourishment material. The sampling and analysis results also reveal that the material is unsuitable for unconfined, off-shore ocean disposal. Although land disposal of the material is feasible, the costs of transporting the material to a suitable landfill far exceed the costs associated with disposal within the Boston Harbor CAD cell as proposed. Further, the disposal of the dredged material at a more remote landfill site will consume limited landfill capacity and incur greater air quality and greenhouse gas emission impacts - as a result of transportation requirements - than will disposal in the CAD cell.

NOTE*: The purpose of the alternatives analysis is to consider what effect changing the parameters and/or siting of a project, or components thereof, will have on the environment, keeping in mind that*

the objective of the MEPA review process is to avoid or minimize damage to the environment to the greatest extent feasible. Examples of alternative projects include alternative site locations, alternative site uses, and alternative site configurations.

Summarize the mitigation measures proposed to offset the impacts of the preferred alternative:

Mitigation measures proposed include:

1. **use of an environmental bucket dredge to minimize incidental release and resuspension of sediments during dredging,**
2. **adherence to time of year (TOY) restrictions on dredging activities to protect the spawning and juvenile development of winter flounder,**
3. **implementation of a water quality testing protocol during the dredging operation to monitor and verify compliance with water turbidity performance criteria and water quality standards, and**
4. **restricting disposal into the CAD cell to the period of one (1) hour before and two (2) hours after slack tide to minimize the adverse effects of tidal currents on the discharge of dredged material into the cell.**

The turbidity monitoring protocol will include action triggers designed to control the source, or generation, of turbid conditions as they may develop. Specifically, turbidity readings will be taken prior to the initiation of dredging and on an hourly basis throughout the period of active dredging operations. In the event readings reach or exceed 50 NTU above pre-dredge background levels, mitigation measures will be implemented. These measures may include, among others, adjustments in bucket cycling times.

The use of a silt curtain has been considered as an additional method of preventing releases of resuspended sediments from the immediate work area during dredging operations, but has been determined to be impractical given the specific conditions of the project site. Existing water depths within and adjacent to the site are typically -35' to -40' at MLLW and the site is exposed to long fetches across Boston Harbor. Given these conditions, a silt curtain of sufficient height would present a safety hazard within a very active and confined area of Boston Harbor adjoining the main shipping channel. A break in the silt curtain or its anchoring would result in the release of the curtain, creating a significant navigational hazard at the entry to the inner harbor and nearby Reserve Channel. The risk to navigational safety exceeds the potential benefit of a silt curtain at this location.

If the project is proposed to be constructed in phases, please describe each phase:

This is not a phased project.

AREAS OF CRITICAL ENVIRONMENTAL CONCERN:

Is the project within or adjacent to an Area of Critical Environmental Concern?

☐Yes (Specify_____)

☒No

if yes, does the ACEC have an approved Resource Management Plan? ___ Yes ___ No;
If yes, describe how the project complies with this plan.

_____

Will there be stormwater runoff or discharge to the designated ACEC? ___ Yes ___ No;
If yes, describe and assess the potential impacts of such stormwater runoff/discharge to the designated ACEC.

_____

RARE SPECIES:

Does the project site include Estimated and/or Priority Habitat of State-Listed Rare Species? (see http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/priority_habitat_home.htm)

☐Yes (Specify_____) ☒No

HISTORICAL /ARCHAEOLOGICAL RESOURCES:
Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?
☐Yes (Specify_____) ☒No
If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources? ☐Yes (Specify_____) ☐No

WATER RESOURCES:
Is there an Outstanding Resource Water (ORW) on or within a half-mile radius of the project site? ___Yes _X_No; if yes, identify the ORW and its location. _____

(NOTE: Outstanding Resource Waters include Class A public water supplies, their tributaries, and bordering wetlands; active and inactive reservoirs approved by MassDEP; certain waters within Areas of Critical Environmental Concern, and certified vernal pools. Outstanding resource waters are listed in the Surface Water Quality Standards, 314 CMR 4.00.)

Are there any impaired water bodies on or within a half-mile radius of the project site? ___Yes _X_No; if yes, identify the water body and pollutant(s) causing the impairment:_____.

Is the project within a medium or high stress basin, as established by the Massachusetts Water Resources Commission? ___Yes _X_No

STORMWATER MANAGEMENT:

Generally describe the project's stormwater impacts and measures that the project will take to comply with the standards found in MassDEP's Stormwater Management Regulations:

As the project is dredging of Land Under the Ocean and disposal will be to the Boston Harbor CAD Cell, the project will not generate stormwater runoff.

MASSACHUSETTS CONTINGENCY PLAN:
Has the project site been, or is it currently being, regulated under M.G.L.c.21E or the Massachusetts Contingency Plan? Yes ___ No _X_ ; if yes, please describe the current status of the site (including Release Tracking Number (RTN), cleanup phase, and Response Action Outcome classification):_____

Is there an Activity and Use Limitation (AUL) on any portion of the project site? Yes ___ No _X_; if yes, describe which portion of the site and how the project will be consistent with the AUL: _____.

Are you aware of any Reportable Conditions at the property that have not yet been assigned an RTN? Yes ___ No _X_ ; if yes, please describe:_____

SOLID AND HAZARDOUS WASTE:

If the project will generate solid waste during demolition or construction, describe alternatives considered for re-use, recycling, and disposal of, e.g., asphalt, brick, concrete, gypsum, metal, wood:

The project will generate approximately 23,000 cubic yards of dredged sediments. This material is unsuitable for reuse and will be disposed in the Boston Harbor CAD Cell.

(NOTE: Asphalt pavement, brick, concrete and metal are banned from disposal at Massachusetts landfills and waste combustion facilities and wood is banned from disposal at Massachusetts landfills. See 310 CMR 19.017 for the complete list of banned materials.)

Will your project disturb asbestos containing materials? Yes ___ No _X_ ;
if yes, please consult state asbestos requirements at http://mass.gov/MassDEP/air/asbhom01.htm

Describe anti-idling and other measures to limit emissions from construction equipment:

All equipment used on this project will be operated in compliance with all applicable idling guidelines.

DESIGNATED WILD AND SCENIC RIVER:

Is this project site located wholly or partially within a defined river corridor of a federally designated Wild and Scenic River or a state designated Scenic River? Yes ___ No _X_ ;
if yes, specify name of river and designation:

If yes, does the project have the potential to impact any of the "outstandingly remarkable" resources of a federally Wild and Scenic River or the stated purpose of a state designated Scenic River? Yes ___ No ___ ; if yes, specify name of river and designation:
if yes, will the project will result in any impacts to any of the designated "outstandingly remarkable" resources of the Wild and Scenic River or the stated purposes of a Scenic River.
Yes ___ No ___ ; if yes,describe the potential impacts to one or more of the "outstandingly remarkable" resources or stated purposes and mitigation measures proposed.

ATTACHMENTS:

1. List of all attachments to this document.
2. U.S.G.S. map (good quality color copy, 8-½ x 11 inches or larger, at a scale of 1:24,000) indicating the project location and boundaries.
3.. Plan, at an appropriate scale, of existing conditions on the project site and its immediate environs, showing all known structures, roadways and parking lots, railroad rights-of-way, wetlands and water bodies, wooded areas, farmland, steep slopes, public open spaces, and major utilities.
4 Plan, at an appropriate scale, depicting environmental constraints on or adjacent to the project site such as Priority and/or Estimated Habitat of state-listed rare species, Areas of Critical Environmental Concern, Chapter 91 jurisdictional areas, Article 97 lands, wetland resource area delineations, water supply protection areas, and historic resources and/or districts.
5. Plan, at an appropriate scale, of proposed conditions upon completion of project (if construction of the project is proposed to be phased, there should be a site plan showing conditions upon the completion of each phase).
6. List of all agencies and persons to whom the proponent circulated the ENF, in accordance with 301 CMR 11.16(2).
7. List of municipal and federal permits and reviews required by the project, as applicable.

LAND SECTION – all proponents must fill out this section

I. Thresholds / Permits

A. Does the project meet or exceed any review thresholds related to **land** (see 301 CMR 11.03(1)
___ Yes _X_ No; if yes, specify each threshold:

II. Impacts and Permits

A. Describe, in acres, the current and proposed character of the project site, as follows:

	Existing	Change	Total
Footprint of buildings	0	0	0
Internal roadways	0	0	0
Parking and other paved areas	0	0	0
Other altered areas (Land Under the Ocean)	4.2	0	4.2
Undeveloped areas	0	0	0
Total: Project Site Acreage	4.2	0	4.2

B. Has any part of the project site been in active agricultural use in the last five years?
___ Yes _X_ No; if yes, how many acres of land in agricultural use (with prime state or locally important agricultural soils) will be converted to nonagricultural use?

C. Is any part of the project site currently or proposed to be in active forestry use?
___ Yes _X_ No; if yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a forest management plan approved by the Department of Conservation and Recreation:

D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97? ___ Yes _X_ No; if yes, describe:

E. Is any part of the project site currently subject to a conservation restriction, preservation restriction, agricultural preservation restriction or watershed preservation restriction? ___ Yes_X_ No; if yes, does the project involve the release or modification of such restriction? ___ Yes ___ No; if yes, describe:

F. Does the project require approval of a new urban redevelopment project or a fundamental change in an existing urban redevelopment project under M.G.L.c.121A? ___ Yes _X_ No; if yes, describe:

G. Does the project require approval of a new urban renewal plan or a major modification of an existing urban renewal plan under M.G.L.c.121B? Yes ___ No _X_; if yes, describe:

III. Consistency

A. Identify the current municipal comprehensive land use plan
Title:_____Imagine Boston 2030_____ Date___undated_____

B. Describe the project's consistency with that plan with regard to:
1) economic development _____Consistent_____
2) adequacy of infrastructure _____Consistent_____
3) open space impacts _____Consistent_____
4) compatibility with adjacent land uses___Consistent_____

C. Identify the current Regional Policy Plan of the applicable Regional Planning Agency (RPA)
RPA: ____MAPC_____

Title:___MetroFuture _____ Date_____2008_____

D. Describe the project's consistency with that plan with regard to:
   1) economic development _____Consistent_____
   2) adequacy of infrastructure _____Consistent_____
   3) open space impacts _____Consistent_____

RARE SPECIES SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **rare species or habitat** (see 301 CMR 11.03(2))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

(NOTE: If you are uncertain, it is recommended that you consult with the Natural Heritage and Endangered Species Program (NHESP) prior to submitting the ENF.)

B. Does the project require any state permits related to **rare species or habitat**? ___ Yes _X_ No

C. Does the project site fall within mapped rare species habitat (Priority or Estimated Habitat?) in the current Massachusetts Natural Heritage Atlas (attach relevant page)? ___ Yes _X_ No.

D. If you answered "No" to all questions A, B and C, proceed to the **Wetlands, Waterways, and Tidelands Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Rare Species section below.

II. Impacts and Permits

A. Does the project site fall within Priority or Estimated Habitat in the current Massachusetts Natural Heritage Atlas (attach relevant page)? ___ Yes ___ No. If yes,

1. Have you consulted with the Division of Fisheries and Wildlife Natural Heritage and Endangered Species Program (NHESP)? ___Yes ___No; if yes, have you received a determination as to whether the project will result in the "take" of a rare species? ___ Yes ___ No; if yes, attach the letter of determination to this submission.

2. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? ___ Yes ___ No; if yes, provide a summary of proposed measures to minimize and mitigate rare species impacts

3. Which rare species are known to occur within the Priority or Estimated Habitat?

4. Has the site been surveyed for rare species in accordance with the Massachusetts Endangered Species Act? ___ Yes ___ No

4. If your project is within Estimated Habitat, have you filed a Notice of Intent or received an Order of Conditions for this project? ___ Yes ___ No; if yes, did you send a copy of the Notice of Intent to the Natural Heritage and Endangered Species Program, in accordance with the Wetlands Protection Act regulations? ___ Yes ___ No

B. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? ___ Yes ___ No; if yes, provide a summary of proposed measures to minimize and mitigate impacts to significant habitat:

WETLANDS, WATERWAYS, AND TIDELANDS SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wetlands, waterways, and tidelands** (see 301 CMR 11.03(3))? _X_ Yes ___ No; if yes, specify, in quantitative terms:

301 CMR 11.03(3)(b)1.f. - >0.5 acres alteration to Land Under the Ocean
301 CMR 11.03(3)(b)3. - >10,000 cubic yards of dredging

B. Does the project require any state permits (or a local Order of Conditions) related to **wetlands, waterways, or tidelands**? _X_ Yes ___ No; if yes, specify which permit:

Section 401 Water Quality Certification from DEP
WPA Order of Conditions from Boston Conservation Commission / DEP

C. If you answered "No" to both questions A and B, proceed to the **Water Supply Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wetlands, Waterways, and Tidelands Section below.

II. Wetlands Impacts and Permits

A. Does the project require a new or amended Order of Conditions under the Wetlands Protection Act (M.G.L. c.131A)? _X_ Yes ___ No; if yes, has a Notice of Intent been filed? ___ Yes _X_ No; if yes, list the date and MassDEP file number: _____; if yes, has a local Order of Conditions been issued? ___ Yes ___ No; Was the Order of Conditions appealed? ___ Yes ___ No. Will the project require a Variance from the Wetlands regulations? ___ Yes _X_ No.

B. Describe any proposed permanent or temporary impacts to wetland resource areas located on the project site: **The project consists of dredging of approximately 4.2 acres of Land Under the Ocean. The dredging will establish a relatively uniform depth of -35' to -37' (MLLW) throughout approximately 3.6 acres of the area. The remaining 0.6 acres will consist of adjoining side slopes transitioning at a pitch of 3:1 (horizontal:vertical).**

C. Estimate the extent and type of impact that the project will have on wetland resources, and indicate whether the impacts are temporary or permanent:

Coastal Wetlands	Area (square feet) or Length (linear feet)	Temporary or Permanent Impact?
Land Under the Ocean	182,000	Permanent
Designated Port Areas	182,000	Permanent (no change in use)
Coastal Beaches	0	
Coastal Dunes	0	
Barrier Beaches	0	
Coastal Banks	0	
Rocky Intertidal Shores	0	
Salt Marshes	0	
Land Under Salt Ponds	0	
Land Containing Shellfish	0	
Fish Runs	0	
Land Subject to Coastal Storm Flowage	0	
Inland Wetlands		
Bank (lf)	0	
Bordering Vegetated Wetlands	0	
Isolated Vegetated Wetlands	0	
Land under Water	0	

Isolated Land Subject to Flooding	0	
Bordering Land Subject to Flooding	0	
Riverfront Area	0	

D. Is any part of the project:

1. proposed as a **limited project**? ___ Yes _X_ No; if yes, what is the area (in sf)?____
2. the construction or alteration of a **dam**? ___ Yes _X_ No; if yes, describe:
3. fill or structure in a **velocity zone** or **regulatory floodway**? ___ Yes _X_ No
4. dredging or disposal of dredged material? _X_ Yes ___ No; if yes, describe the volume of dredged material and the proposed disposal site:

   The project is estimated to generate approximately 23,000 cubic yards of dredged material. All material will be disposed in the Boston Harbor CAD Cell.

5. a discharge to an **Outstanding Resource Water (ORW)** or an **Area of Critical Environmental Concern (ACEC)**? ___ Yes _X_ No
6. subject to a wetlands restriction order? ___ Yes _X_ No; if yes, identify the area (in sf):
7. located in buffer zones? ___Yes _X_No; if yes, how much (in sf) _____

E. Will the project:

1. be subject to a local wetlands ordinance or bylaw? ___ Yes _X_ No
2. alter any federally-protected wetlands not regulated under state law? ___ Yes _X_ No; if yes, what is the area (sf)?

III. Waterways and Tidelands Impacts and Permits

A. Does the project site contain waterways or tidelands (including filled former tidelands) that are subject to the Waterways Act, M.G.L.c.91? _X_ Yes ___ No; if yes, is there a current Chapter 91 License or Permit affecting the project site? ___ Yes _X_ No; if yes, list the date and license or permit number and provide a copy of the historic map used to determine extent of filled tidelands:

The project site consists entirely of flowed tidelands and the project is a water-dependent industrial use located within the Port of Boston. Per the provisions of Massport's Enabling Act (St. 1956 c. 465), such Massport projects are not subject to licensing or permitting pursuant to the provisions of Chapter 91. See also 310 CMR 9.03(3)(a).

B. Does the project require a new or modified license or permit under M.G.L.c.91? ___ Yes _X_ No; if yes, how many acres of the project site subject to M.G.L.c.91 will be for non-water-dependent use? Current __ Change __ Total __

If yes, how many square feet of solid fill or pile-supported structures (in sf)?

C. For non-water-dependent use projects, indicate the following:

Area of filled tidelands on the site:_____

Area of filled tidelands covered by buildings:_____

For portions of site on filled tidelands, list ground floor uses and area of each use:

_____

Does the project include new non-water-dependent uses located over flowed tidelands? Yes ___ No ___

Height of building on filled tidelands_____

Also show the following on a site plan: Mean High Water, Mean Low Water, Water-dependent Use Zone, location of uses within buildings on tidelands, and interior and exterior areas and facilities dedicated for public use, and historic high and historic low water marks.

D. Is the project located on landlocked tidelands? ___ Yes _X_ No; if yes, describe the project's impact on the public's right to access, use and enjoy jurisdictional tidelands and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

E. Is the project located in an area where low groundwater levels have been identified by a municipality or by a state or federal agency as a threat to building foundations? ___Yes _X_ No; if yes, describe the project's impact on groundwater levels and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

F. Is the project non-water-dependent **and** located on landlocked tidelands **or** waterways or tidelands subject to the Waterways Act **and** subject to a mandatory EIR? ___ Yes _X_ No;
(NOTE: If yes, then the project will be subject to Public Benefit Review and Determination.)

G. Does the project include dredging? _X_ Yes ___ No; if yes, answer the following questions:
What type of dredging? Improvement ___ Maintenance ___ Both __X_
What is the proposed dredge volume, in cubic yards (cys) __23,000_____
What is the proposed dredge footprint _900_length (ft) 175_width (ft)_35_depth (ft);
Will dredging impact the following resource areas?
Intertidal Yes__ No_X_; if yes, ___ sq ft
Outstanding Resource Waters Yes__ No_X_; if yes, ___ sq ft
Other resource area (i.e. shellfish beds, eel grass beds) Yes__ No_X_; if yes __ sq ft
If yes to any of the above, have you evaluated appropriate and practicable steps to: 1) avoidance; 2) if avoidance is not possible, minimization; 3) if either avoidance or minimize is not possible, mitigation?
If no to any of the above, what information or documentation was used to support this determination? **MassGIS**

Provide a comprehensive analysis of practicable alternatives for improvement dredging in accordance with 314 CMR 9.07(1)(b). Physical and chemical data of the sediment shall be included in the comprehensive analysis. **See Attachment 3 – Improvement Dredging Alternatives Assessment**

Sediment Characterization
Existing gradation analysis results? _X_Yes ___No: if yes, provide results.
Existing chemical results for parameters listed in 314 CMR 9.07(2)(b)6? _X_Yes ____No; if yes, provide results. **See Attachment 4 - Summary of Sediment Analysis Results.**

Do you have sufficient information to evaluate feasibility of the following management options for dredged sediment? If yes, check the appropriate option.

Beach Nourishment _X__
Unconfined Ocean Disposal _X_
Confined Disposal:
Confined Aquatic Disposal (CAD) _X_
Confined Disposal Facility (CDF) ___
Landfill Reuse in accordance with COMM-97-001 ___
Shoreline Placement ___
Upland Material Reuse____
In-State landfill disposal____
Out-of-state landfill disposal ____
(NOTE: This information is required for a 401 Water Quality Certification.)

IV. Consistency:
A. Does the project have effects on the coastal resources or uses, and/or is the project located within the Coastal Zone? _X_ Yes ___ No; if yes, describe these effects and the projects consistency

with the policies of the Office of Coastal Zone Management: **The proposed project is compliant with the terms and conditions of the Department of the Army General Permit for Massachusetts (GP 5), as an activity subject to Pre-Construction Notification. Activities compliant with these terms and conditions generally are considered "consistent" with the policies of the MA Office of Coastal Zone Management (MA-CZM). Further, the project purpose is to restore and maintain safe berthing conditions for vessels engaged in maritime commerce within this area of the South Boston DPA in compliance with MA-CZM policies.**

B. Is the project located within an area subject to a Municipal Harbor Plan? ___ Yes _X_ No; if yes, identify the Municipal Harbor Plan and describe the project's consistency with that plan:

WATER SUPPLY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **water supply** (see 301 CMR 11.03(4))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **water supply**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Wastewater Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Water Supply Section below.

II. Impacts and Permits

A. Describe, in gallons per day (gpd), the volume and source of water use for existing and proposed activities at the project site:

	Existing	Change	Total
Municipal or regional water supply	_____	_____	_____
Withdrawal from groundwater	_____	_____	_____
Withdrawal from surface water	_____	_____	_____
Interbasin transfer	_____	_____	_____

(NOTE: Interbasin Transfer approval will be required if the basin and community where the proposed water supply source is located is different from the basin and community where the wastewater from the source will be discharged.)

B. If the source is a municipal or regional supply, has the municipality or region indicated that there is adequate capacity in the system to accommodate the project? ___ Yes ___ No

C. If the project involves a new or expanded withdrawal from a groundwater or surface water source, has a pumping test been conducted? ___ Yes ___ No; if yes, attach a map of the drilling sites and a summary of the alternatives considered and the results. _____

D. What is the currently permitted withdrawal at the proposed water supply source (in gallons per day)? _____Will the project require an increase in that withdrawal? ___Yes ___No; if yes, then how much of an increase (gpd)? _____

E. Does the project site currently contain a water supply well, a drinking water treatment facility, water main, or other water supply facility, or will the project involve construction of a new facility? ___ Yes ___No. If yes, describe existing and proposed water supply facilities at the project site:

	Permitted Flow	Existing Avg. Daily Flow	Project Flow	Total
Capacity of water supply well(s) (gpd)	_____	_____	_____	_____
Capacity of water treatment plant (gpd)	_____	_____	_____	_____

F. If the project involves a new interbasin transfer of water, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or proposed?

G. Does the project involve:

1. new water service by the Massachusetts Water Resources Authority or other agency of the Commonwealth to a municipality or water district? ___ Yes ___ No
2. a Watershed Protection Act variance? ___ Yes ___ No; if yes, how many acres of alteration?
3. a non-bridged stream crossing 1,000 or less feet upstream of a public surface drinking

water supply for purpose of forest harvesting activities? ___ Yes ___ No

III. Consistency

Describe the project's consistency with water conservation plans or other plans to enhance water resources, quality, facilities and services:

WASTEWATER SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wastewater** (see 301 CMR 11.03(5))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **wastewater**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Transportation -- Traffic Generation Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wastewater Section below.

II. Impacts and Permits

A. Describe the volume (in gallons per day) and type of disposal of wastewater generation for existing and proposed activities at the project site (calculate according to 310 CMR 15.00 for septic systems or 314 CMR 7.00 for sewer systems):

	Existing	Change	Total
Discharge of sanitary wastewater	_____	_____	_____
Discharge of industrial wastewater	_____	_____	_____
TOTAL	_____	_____	_____

	Existing	Change	Total
Discharge to groundwater	_____	_____	_____
Discharge to outstanding resource water	_____	_____	_____
Discharge to surface water	_____	_____	_____
Discharge to municipal or regional wastewater facility	_____	_____	_____
TOTAL	_____	_____	_____

B. Is the existing collection system at or near its capacity? ___ Yes ___ No; if yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

C. Is the existing wastewater disposal facility at or near its permitted capacity? ___ Yes___ No; if yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

D. Does the project site currently contain a wastewater treatment facility, sewer main, or other wastewater disposal facility, or will the project involve construction of a new facility? ___ Yes ___ No; if yes, describe as follows:

	Permitted	Existing Avg. Daily Flow	Project Flow	Total
Wastewater treatment plant capacity (in gallons per day)	_____	_____	_____	_____

E. If the project requires an interbasin transfer of wastewater, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or new?

(NOTE: Interbasin Transfer approval may be needed if the basin and community where wastewater will be discharged is different from the basin and community where the source of water supply is located.)

F. Does the project involve new sewer service by the Massachusetts Water Resources Authority (MWRA) or other Agency of the Commonwealth to a municipality or sewer district? ___ Yes ___ No

G. Is there an existing facility, or is a new facility proposed at the project site for the storage, treatment, processing, combustion or disposal of sewage sludge, sludge ash, grit, screenings, wastewater reuse (gray water) or other sewage residual materials? ___ Yes ___ No; if yes, what is the capacity (tons per day):

	Existing	Change	Total
Storage	_____	_____	_____
Treatment	_____	_____	_____
Processing	_____	_____	_____
Combustion	_____	_____	_____
Disposal	_____	_____	_____

H. Describe the water conservation measures to be undertaken by the project, and other wastewater mitigation, such as infiltration and inflow removal.

III. Consistency

A. Describe measures that the proponent will take to comply with applicable state, regional, and local plans and policies related to wastewater management:

B. If the project requires a sewer extension permit, is that extension included in a comprehensive wastewater management plan? ___ Yes ___ No; if yes, indicate the EEA number for the plan and whether the project site is within a sewer service area recommended or approved in that plan:

TRANSPORTATION SECTION (TRAFFIC GENERATION)

I. Thresholds / Permit

A. Will the project meet or exceed any review thresholds related to **traffic generation** (see 301 CMR 11.03(6))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **state-controlled roadways**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Roadways and Other Transportation Facilities Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Traffic Generation Section below.

II. Traffic Impacts and Permits

A. Describe existing and proposed vehicular traffic generated by activities at the project site:

	Existing	Change	Total
Number of parking spaces	_____	_____	_____
Number of vehicle trips per day	_____	_____	_____
ITE Land Use Code(s):	_____	_____	_____

B. What is the estimated average daily traffic on roadways serving the site?

Roadway	Existing	Change	Total
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____

C. If applicable, describe proposed mitigation measures on state-controlled roadways that the project proponent will implement:

D. How will the project implement and/or promote the use of transit, pedestrian and bicycle facilities and services to provide access to and from the project site?

C. Is there a Transportation Management Association (TMA) that provides transportation demand management (TDM) services in the area of the project site? ____ Yes ____ No; if yes, describe if and how will the project will participate in the TMA:

D. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation facilities? ____ Yes ____ No; if yes, generally describe:

E. If the project will penetrate approach airspace of a nearby airport, has the proponent filed a Massachusetts Aeronautics Commission Airspace Review Form (780 CMR 111.7) and a Notice of Proposed Construction or Alteration with the Federal Aviation Administration (FAA) (CFR Title 14 Part 77.13, forms 7460-1 and 7460-2)?

III. Consistency

Describe measures that the proponent will take to comply with municipal, regional, state, and federal plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services:

TRANSPORTATION SECTION (ROADWAYS AND OTHER TRANSPORTATION FACILITIES)

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **roadways or other transportation facilities** (see 301 CMR 11.03(6))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **roadways or other transportation facilities**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Energy Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Roadways Section below.

II. Transportation Facility Impacts

A. Describe existing and proposed transportation facilities in the immediate vicinity of the project site:

B. Will the project involve any

1. Alteration of bank or terrain (in linear feet)? _____
2. Cutting of living public shade trees (number)? _____
3. Elimination of stone wall (in linear feet)? _____

III. Consistency -- Describe the project's consistency with other federal, state, regional, and local plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services, including consistency with the applicable regional transportation plan and the Transportation Improvements Plan (TIP), the State Bicycle Plan, and the State Pedestrian Plan:

ENERGY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **energy** (see 301 CMR 11.03(7))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **energy**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Air Quality Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Energy Section below.

II. Impacts and Permits

A. Describe existing and proposed energy generation and transmission facilities at the project site:

	Existing	Change	Total
Capacity of electric generating facility (megawatts)	_____	_____	_____
Length of fuel line (in miles)	_____	_____	_____
Length of transmission lines (in miles)	_____	_____	_____
Capacity of transmission lines (in kilovolts)	_____	_____	_____

B. If the project involves construction or expansion of an electric generating facility, what are:

1. the facility's current and proposed fuel source(s)?
2. the facility's current and proposed cooling source(s)?

C. If the project involves construction of an electrical transmission line, will it be located on a new, unused, or abandoned right of way? ___Yes ___No; if yes, please describe:

D. Describe the project's other impacts on energy facilities and services:

III. Consistency

Describe the project's consistency with state, municipal, regional, and federal plans and policies for enhancing energy facilities and services:

AIR QUALITY SECTION

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **air quality** (see 301 CMR 11.03(8))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **air quality**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Solid and Hazardous Waste Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Air Quality Section below.

II. Impacts and Permits

A. Does the project involve construction or modification of a major stationary source (see 310 CMR 7.00, Appendix A)? ___ Yes ___ No; if yes, describe existing and proposed emissions (in tons per day) of:

	Existing	Change	Total
Particulate matter	_____	_____	_____
Carbon monoxide	_____	_____	_____
Sulfur dioxide	_____	_____	_____
Volatile organic compounds	_____	_____	_____
Oxides of nitrogen	_____	_____	_____
Lead	_____	_____	_____
Any hazardous air pollutant	_____	_____	_____
Carbon dioxide	_____	_____	_____

B. Describe the project's other impacts on air resources and air quality, including noise impacts:

III. Consistency

A. Describe the project's consistency with the State Implementation Plan:

B. Describe measures that the proponent will take to comply with other federal, state, regional, and local plans and policies related to air resources and air quality:

SOLID AND HAZARDOUS WASTE SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **solid or hazardous waste** (see 301 CMR 11.03(9))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **solid and hazardous waste**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Historical and Archaeological Resources Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Solid and Hazardous Waste Section below.

II. Impacts and Permits

A. Is there any current or proposed facility at the project site for the storage, treatment, processing, combustion or disposal of solid waste? ___ Yes ___ No; if yes, what is the volume (in tons per day) of the capacity:

	Existing	Change	Total
Storage	_____	_____	_____
Treatment, processing	_____	_____	_____
Combustion	_____	_____	_____
Disposal	_____	_____	_____

B. Is there any current or proposed facility at the project site for the storage, recycling, treatment or disposal of hazardous waste? ___ Yes ___ No; if yes, what is the volume (in tons or gallons per day) of the capacity:

	Existing	Change	Total
Storage	_____	_____	_____
Recycling	_____	_____	_____
Treatment	_____	_____	_____
Disposal	_____	_____	_____

C. If the project will generate solid waste (for example, during demolition or construction), describe alternatives considered for re-use, recycling, and disposal:

D. If the project involves demolition, do any buildings to be demolished contain asbestos? ___ Yes ___ No

E. Describe the project's other solid and hazardous waste impacts (including indirect impacts):

III. Consistency

Describe measures that the proponent will take to comply with the State Solid Waste Master Plan:

HISTORICAL AND ARCHAEOLOGICAL RESOURCES SECTION

I. Thresholds / Impacts

A. Have you consulted with the Massachusetts Historical Commission? ___ Yes _X_ No; if yes, attach correspondence. For project sites involving lands under water, have you consulted with the Massachusetts Board of Underwater Archaeological Resources? ____Yes _X__ No; if yes, attach correspondence

As the project is primarily maintenance dredging within an active marine terminal facility, it is unlikely to affect historic or archaeological resources. Further, a search of the Massachusetts Cultural Resources Information System (MACRIS) database yielded no results concerning known cultural resources. Nevertheless, the Massachusetts Historical Commission and Massachusetts Bureau of Underwater Archaeological Resources will be notified of the proposal and consulted, as necessary, during the permitting process.

B. Is any part of the project site a historic structure, or a structure within a historic district, in either case listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? ___ Yes _X_ No; if yes, does the project involve the demolition of all or any exterior part of such historic structure? ___ Yes ___ No; if yes, please describe:

C. Is any part of the project site an archaeological site listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? ___ Yes _X_ No; if yes, does the project involve the destruction of all or any part of such archaeological site? ___ Yes ___ No; if yes, please describe:

D. If you answered "No" to all parts of both questions A, B and C, proceed to the **Attachments and Certifications** Sections. If you answered "Yes" to any part of either question A or question B, fill out the remainder of the Historical and Archaeological Resources Section below.

II. Impacts

Describe and assess the project's impacts, direct and indirect, on listed or inventoried historical and archaeological resources:

III. Consistency

Describe measures that the proponent will take to comply with federal, state, regional, and local plans and policies related to preserving historical and archaeological resources:

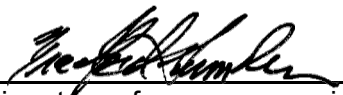
CERTIFICATIONS:

1. The Public Notice of Environmental Review has been/will be published in the following newspapers in accordance with 301 CMR 11.15(1):

   (Name) Boston Herald (Date) June 30, 2021

2. This form has been circulated to Agencies and Persons in accordance with 301 CMR 11.16(2).

Signature

6/28/21		6/28/21	
Date	Signature of Responsible Officer or Proponent	Date	Signature of person preparing ENF (if different from above)

Bradford Washburn	Bradford Saunders
Name (print or type)	Name (print or type)
Massport	GEI Consultants, Inc.
Firm/Agency	Firm/Agency
1 Harborside Drive, Suite 200	124 Grove Street, Suite 300
Street	Street
Boston, MA 02128	Franklin, MA 02038
Municipality/State/Zip	Municipality/State/Zip
617-568-3546	774-277-6020
Phone	Phone

Black Falcon Pier Berths 1 and 2 Dredging
Environmental Notification Form - List of Attachments

Attachment 1. Project Narrative

Attachment 2. Figures

1. Project Location
2. Existing Conditions
3. Proposed Dredging Area
4. Proposed Dredging Plan
5. Proposed Dredge Section
6. Boston Harbor CAD Cell
7. Environmental Justice Populations

Attachment 3. Improvement Dredging Alternatives Assessment

Attachment 4. Sediment Sampling Results

Attachment 5. Environmental Notification Form Circulation List

Attachment 6. List of Local and Federal Permits

ATTACHMENT 1
PROJECT NARRATIVE

Black Falcon Pier Berths 1 and 2 Dredging
Environmental Notification Form - Project Narrative

I. Introduction

Massport is proposing to dredge Berths 1 and 2 along the north face of the Black Falcon Pier at 88 Black Falcon Avenue in South Boston (see Figure 1). These berths are active commercial waterfront assets located within the South Boston Designated Port Area (DPA) and were most recently dredged by the U.S. Army Corps of Engineers (ACOE) in the late 1990s to maintain a depth of -35' (MLLW). The results of a hydrographic survey conducted by Massport in 2020 reveal that shoaling has occurred along the face of the pier and outer edges of the berths, and maintenance dredging is due in order to maintain the functionality of these berths to accommodate current users.

In addition to the maintenance of the berths to accommodate current uses, Massport proposes to widen the berths to the north by extending the -35' (MLLW) design depth for a distance of approximately 25 feet. This will allow for the berthing of deeper draft vessels up to 100 feet in width while maintaining a minimal area for safe maneuvering into and out of the berths. Accordingly, the project site as discussed herein consists of a dredging area measuring 900 feet in length by 175 feet in width (see Figures 2 and 3).

II. Existing Conditions

The Black Falcon Pier was constructed as part of the South Boston Army Base Rehabilitation in 1955. The pier structure is a full depth concrete wharf constructed as an addition out-shore of an older pre-existing pier. The newer concrete wharf is pile supported and the water depth at the time of its construction was shown as -35 feet (MLW).

The north face of the pier is over 950 feet in length and provides berthing for vessels with a combined total length of 900 feet. Berths 1 and 2 are owned and operated by Massport, though property ownership of the proposed dredge footprint is split between Massport and the City of Boston Economic Development Industrial Corporation (EDIC) – see Figure 2. Currently, the berths are used for lay berthing of cruise ships and other vessels, including military vessels, and for the ship-to-shore transfer of materials by Coastal Cement Corporation, the tenant of an adjoining parcel owned by the EDIC.

Berths 1 and 2, lying to the south of the 40-foot deep approach channel to the drydock located at 32A Drydock Avenue, were dredged by the ACOE in the late 1990s to depths of -35 to -37 feet (MLLW) along approximately 910 linear feet of the pier and out to a distance of approximately 150 feet north from the pier face. This dredging is documented in After Dredge Surveys completed by the ACOE in August 2000. Since that dredging, the area has shoaled such that depths have been reduced to -26.6' adjacent to the face of the pier and -32.0' along the north edge of the dredged area. North of the area dredged in the late 1990s and south of the drydock approach channel, current depths range from -24' to -30' (MLLW), though documentation prepared by the U.S. Department of the Navy from the 1940s indicates that the entire area south of the approach channel was maintained at a depth of at least -30' (MLW) at that time.

Samples collected by vibracore in June 2021 at twelve locations distributed throughout the project site indicate that the sediments to be dredged are composed of black silts (greater than 36 percent fine-grain

materials) with chemical composition similar to accumulated sediments encountered at other maintenance dredging sites within the South Boston DPA. Given these findings, the material to be dredged is considered unsuitable both for reuse as beach nourishment material and for unconfined open water disposal.

MassGIS data (accessed using the on-line mapping tool - OLIVER) indicate that the area is unsuitable habitat for shellfish and is "prohibited" for the growing of shellfish. Further, the area to be dredged does not support beds of submerged aquatic vegetation and is not mapped by the Massachusetts Natural Heritage and Endangered Species Program as either estimated habitat of rare wetland wildlife or priority habitat for rare species.

III. Proposed Action

The Proposed Action is dredging of Berths 1 and 2 along the north face of the Black Falcon pier for the purpose of restoring and maintaining adequate depths for the safe berthing of vessels engaged in maritime commerce. The dredging will establish a uniform depth at the berths of -35 to -37 feet (MLLW) within a footprint 900 feet in length by 175 feet in width (see Figures 4 and 5). It is estimated that the dredging will generate approximately 23,000 cubic yards of marine sediment, all of which is to be disposed in the Boston Harbor Confined Aquatic Disposal (CAD) cell located in the main shipping channel (see Figure 6).

All dredging will be conducted from the water using a barge-mounted crane. An environmental bucket dredge will be used to remove silts to minimize incidental release and resuspension of sediments. In the event that any spot shoals of harder material remain after removal of the silts, a conventional clamshell bucket will be utilized to complete the dredging to establish the required minimum project depth for vessel safety. The Proposed Action does not include rock removal. Dredged material will be placed in a split hull scow and transported directly from the dredge site to the CAD cell.

No dredging will occur during the recommended time-of-year (TOY) restriction period of February 15 through June 30 for the protection of spawning and juvenile development of winter flounder (*Pseudopleuronectes americanus*).

Pursuant to the provisions of the Massachusetts Wetlands Regulations at 310 CMR 10.23, dredging within areas of the project site previously dredged to a depth of at least -35' (MLLW) is defined as "maintenance dredging", while dredging within areas that have not previously been dredged to at least that depth is defined as "improvement dredging". As indicated above, evidence exists to indicate that the entire project site has been dredged at some time in the past, though documentation of depth to -35'(MLLW) within the area not dredged by the Army Corps in the 1990s has not been found. Accordingly, it is assumed that dredging from -30' to -35' within that portion of the project site that was not dredged by the Army Corps in the late 1990s is "improvement dredging".

IV. Proposed Mitigation Measures

Mitigation measures to be implemented as part of the Proposed Action to avoid, minimize, and/or compensate for adverse impacts are as follows.

1. Environmental Bucket Dredge – all silty material will be dredged using an environmental bucket dredge to minimize the incidental release of fine materials into the water column during dredging.
2. Time of Year Restrictions (TOY) - neither dredging nor dredged material disposal will be conducted during the recommended TOY of February 15 through June 30 designed for the protection of winter

flounder (*Pseudopleuronectes americanus*) spawning and juvenile development.

3. Water Quality Testing and Monitoring – a water quality testing and monitoring program will be implemented during dredging and disposal activities to document compliance with turbidity standards. This program will incorporate action levels and response actions based on pre-dredge ambient conditions.
4. Temporal Restriction on Use of CAD Cell – discharges of dredged material into the CAD cell will be restricted to the time period of one (1) hour before to two (2) hours after slack tide to minimize the effects of tidal currents during discharge activities.
5. All dredging equipment will be maintained and operated such that air emissions will comply with all Federal and Commonwealth air emission performance laws and standards.

The use of a silt curtain was considered as an additional method of preventing releases of resuspended sediments from the immediate work area during dredging operations, but has been determined to be impractical given the specific conditions of the project site. Existing water depths within and adjacent to the site are typically -35' to -40' at MLLW and the site is exposed to long fetches across Boston Harbor. Given these conditions, a silt curtain of sufficient height would present a safety hazard within a very active and confined area of Boston Harbor adjoining the main shipping channel. A break in the silt curtain or its anchoring would result in the release of the curtain, creating a significant navigational hazard at the entry to the inner harbor and nearby Reserved Channel. The risk to navigational safety exceeds the potential benefit of a silt curtain at this location. As noted above, turbidity monitoring will be conducted during dredging.

V. Alternatives to the Proposed Action

The Proposed Action consists of a combination of "maintenance dredging" and "improvement dredging", as those terms are defined in the Massachusetts Wetlands regulations at 310 CMR 10.23 and the Massachusetts Water Quality Certification regulations at 314 CMR 9.02. Maintenance dredging will be conducted within the portion of the project site that was dredged to a depth of at least -35' (MLLW) by the ACOE in the late 1990s – this consists of an area measuring approximately 900 feet in length and 150 feet in width (extending north from the face of the pier). Improvement dredging is proposed for that portion of the project site for which documentation of prior depth to -35' (MLLW) has not been found – this consists of a strip of Land Under the Ocean measuring 900 feet in length and 25 feet in width (extending north from the north boundary of the maintenance dredging activity as depicted in Figures 4 and 5). Dredging alternatives have been considered specific to each of these two types of dredging activity. Additionally, alternatives to the proposed use of the Boston Harbor CAD cell for disposal of the dredged sediments have been considered.

Maintenance Dredging – No Action Alternative

It has been approximately twenty years since the project site has been dredged and siltation has reduced the depth of the berths limiting the range of vessels Massport can safely accommodate. If no action is taken at this time (i.e., the No Action Alternative), these berths will continue to silt-in, ultimately rendering the site unsuitable for even its current uses. Adoption of such an alternative is not feasible, as it would require Massport to abandon its responsibility to maintain its projects and facilities.

Improvement Dredging – No Action Alternative

A significant user of the existing berths is Coastal Cement Corporation (Coastal Cement), a lessee of adjoining property belonging to EDIC. Currently, barges delivering materials to Coastal Cement are up to 300 feet in length and 75 feet in width. For comparison, cruise ships that use the berths typically have widths from 85 to 120 feet. Coastal Cement anticipates future needs for berthing facilities capable of accommodating material transport vessels of up to 700 feet in length and approximately 100 feet in width. Accordingly, the future berthing needs of Coastal Cement are for a width of 100 feet plus 75 feet for safe vessel maneuvering into and out of the berths.

The No Action Alternative for the "improvement dredging" portion of the project assumes that dredging is limited to the area of "maintenance dredging" only. This would limit the width of the dredge footprint to approximately 150 feet. The area of "improvement dredging" would be left at a depth ranging from -24' to -30' (MLLW), or approximately five (5) to 11 feet shallower than the minimum -35' required to accommodate anticipated needs. Adoption of this alternative will render the facility unsuitable for Coastal Cement's anticipated use, as there will be insufficient width for safe use of the berths, and restrict the capacity of the berths to accommodate other, similarly-sized vessels.

Improvement Dredging – Reduced Area Alternative

The Reduced Area Alternative considers the option of reducing the width of the "improvement dredging" area to less than the proposed 25 feet. By reducing the width of the proposed dredge footprint, the total volume of dredged material generated and requiring disposal can be reduced, but the area available for safe maneuvering of vessels approaching and departing the berths will be reduced as well. A 75-foot maneuvering area represents the minimum area required to safely maneuver a vessel of the size and design anticipated into its berth; accordingly, any reduction in the proposed width of dredging footprint will require a commensurate reduction in the width of the material transport vessel that can be accommodated at the berths. The accommodation of a vessel width of 100 feet is essential to the future operation of the berths, as modern vessels are already at such width and it will address the anticipated future needs of a current user. A dredging action that fails to address the berthing requirements of such vessels will adversely affect both the future operations of the existing user and the capacity of Massport to accommodate future demand.

Improvement Dredging – Reduced Depth Alternative

The Reduced Depth Alternative considers the option of dredging over the entirety of the "improvement dredging" area but to a lesser overall depth, with the area used for transitioning from the -35' depth of the "maintenance dredging" area to the existing depth at the outer edge of the "improvement dredging" area. As with the Reduced Area Alternative, this alternative will result in the generation of less material requiring disposal than the Proposed Action. This alternative will have the same adverse effect on future operations of the berths as the Reduced Area Alternative because the proposed -35' (MLLW) depth is the depth required to accommodate the anticipated needs of the current user. Areas that are not dredged to this minimum depth are not available for the maneuvering of the future material transport vessels.

Dredged Material Disposal Alternatives

Alternative dredged material disposal options considered by Massport include reuse as beach nourishment material, unconfined off-shore ocean disposal, and land disposal. The results of site sediment sampling and analysis reveal that the sediments to be dredged contain in excess of 36 percent fine silts and are, therefore,

unsuitable for use as beach nourishment material. The sampling and analysis results also reveal that the spoil is unsuitable for unconfined, off-shore ocean disposal.

Although land disposal of the material is feasible, the costs of transporting the material to a suitable landfill far exceed the costs associated with disposal within the Boston Harbor CAD cell as proposed. Further, the disposal of the dredge material at a more remote landfill site will consume limited landfill capacity and incur greater air quality and greenhouse gas emission impacts - as a result of transportation requirements - than will disposal in the CAD cell.

VI. Outreach

In preparation for filing of this ENF, Massport reviewed both the interim guidance and the Transition Rules for Public Involvement Requirements for Environmental Justice Populations that went into effect as of June 24, 2021. The transitional Environmental Justice (EJ) outreach guidance directs applicants to review the online Massachusetts 2020 Environmental Justice Populations mapping tool. If any portion of the project site is located within an "EJ population" as defined in the 2017 EJ Policy, the Proponent is required to consult with the MEPA Office at least 10 days prior to filing to determine an appropriate EJ outreach strategy. Proponents may also voluntarily conduct EJ outreach prior to filing and include a summary of these outreach activities as part of the ENF/EENF filing. Discussions with the MEPA Office indicated that if a project is within 1 mile of a mapped EJ population (or within 5 miles of a mapped EJ population if a project is likely to have a significant air quality impact), additional outreach may be appropriate in advance of filing an ENF.

In response to the transition rules and discussion with the MEPA Office, Massport reviewed available mapping and determined that the only mapped EJ population within a 1-mile radius of the Berths 1-2 project site is a polygon on the Boston Logan International Airport airfield and within the main shipping channel of Boston Harbor (see Figure 7). Neither the Harbor nor the secured airfield location have residential populations and the population polygon shown on the airfield and in the Harbor that extends to within one mile of Berths 1 and 2 is defined as "Minority", and not designated as "English Isolation". Furthermore, the proposed berth dredging is confined to a location that has previously been dredged and the intent of the project is to restore the berth to its design dredge depth with full functional capacity. As such, it will represent a continuation of existing uses. Within this context, no EJ population that lacks English language proficiency is reasonably likely to be affected negatively by the project.

To embrace the spirit of community outreach, Massport has already notified local South Boston elected officials and on June 8, 2021 briefed the City Point Neighborhood Association in South Boston as part of an overall harbor dredging update with the US Army Corps of Engineers.

VII. Schedule

It is proposed that this project will begin in September 2021 and be completed by February 1, 2022. Based on an assumption of approximately 1,000 cubic yards dredged per day, it is anticipated that 23 to 26 work-days will be required to complete the project.

ATTACHMENT 2
FIGURES

1. PROJECT LOCATION

2. EXISTING CONDITIONS

3. PROPOSED DREDGING AREA

4. PROPOSED DREDGING PLAN

5. PROPOSED DREDGE SECTION

6. BOSTON HARBOR CAD CELL

7. ENVIRONMENTAL JUSTICE POPULATIONS

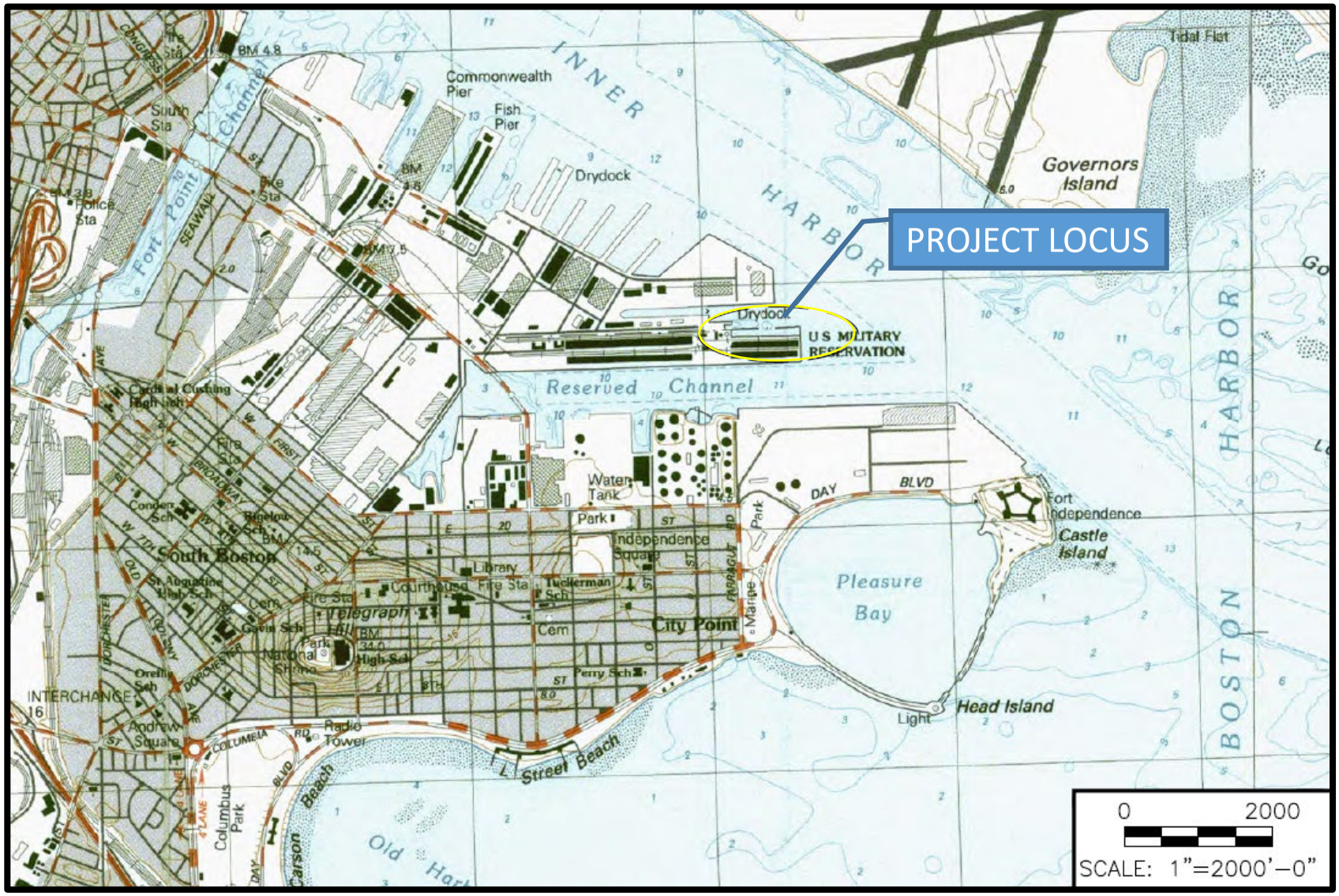
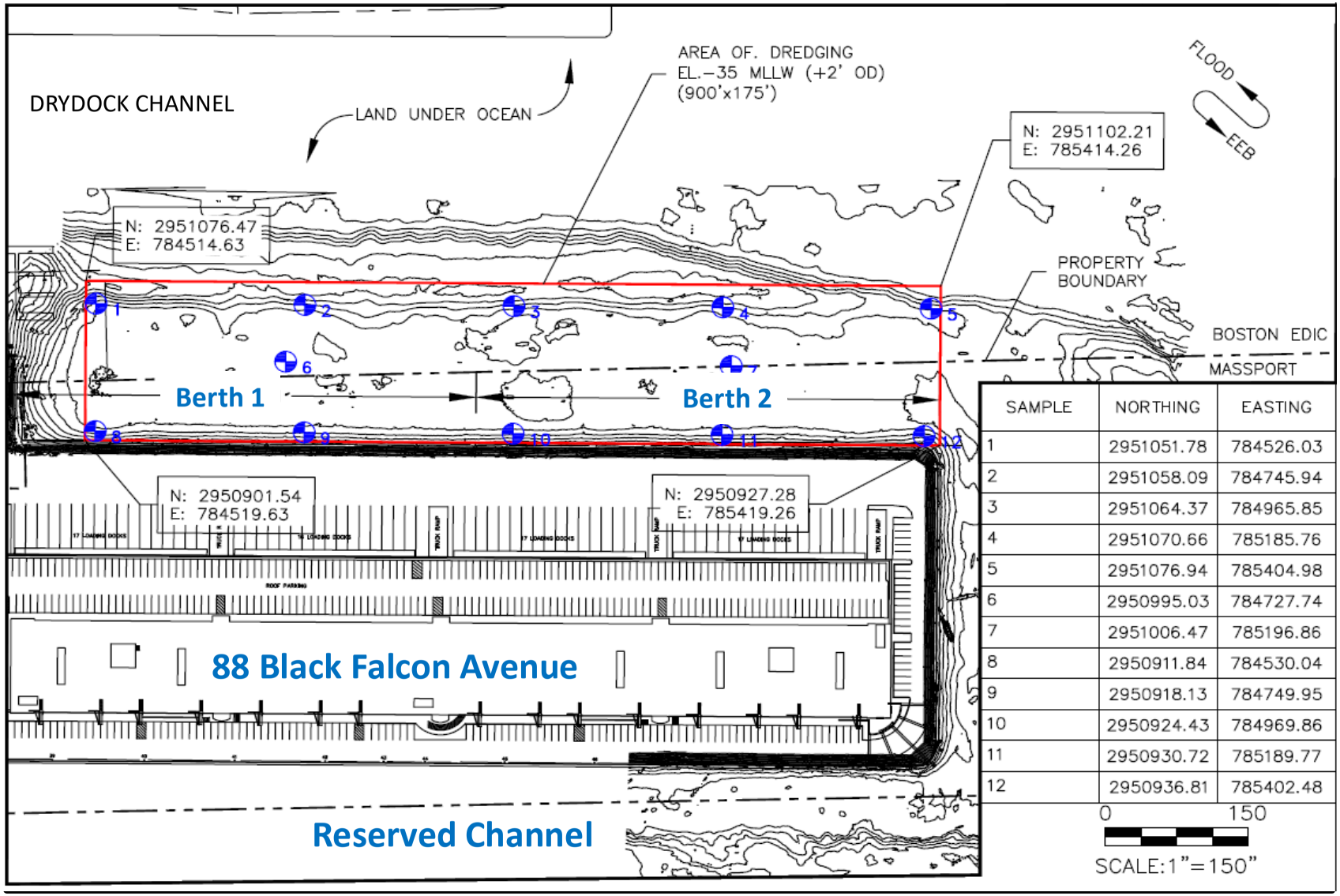


Figure 1: Project Location

Berths 1-2 Dredging Project

88 Black Falcon Avenue, South Boston, MA

massport



SAMPLE	NORTHING	EASTING
1	2951051.78	784526.03
2	2951058.09	784745.94
3	2951064.37	784965.85
4	2951070.66	785185.76
5	2951076.94	785404.98
6	2950995.03	784727.74
7	2951006.47	785196.86
8	2950911.84	784530.04
9	2950918.13	784749.95
10	2950924.43	784969.86
11	2950930.72	785189.77
12	2950936.81	785402.48

Berths 1-2 Dredging Project

88 Black Falcon Avenue, South Boston, MA

Figure 2: Existing Conditions

Sediment Sample Locations

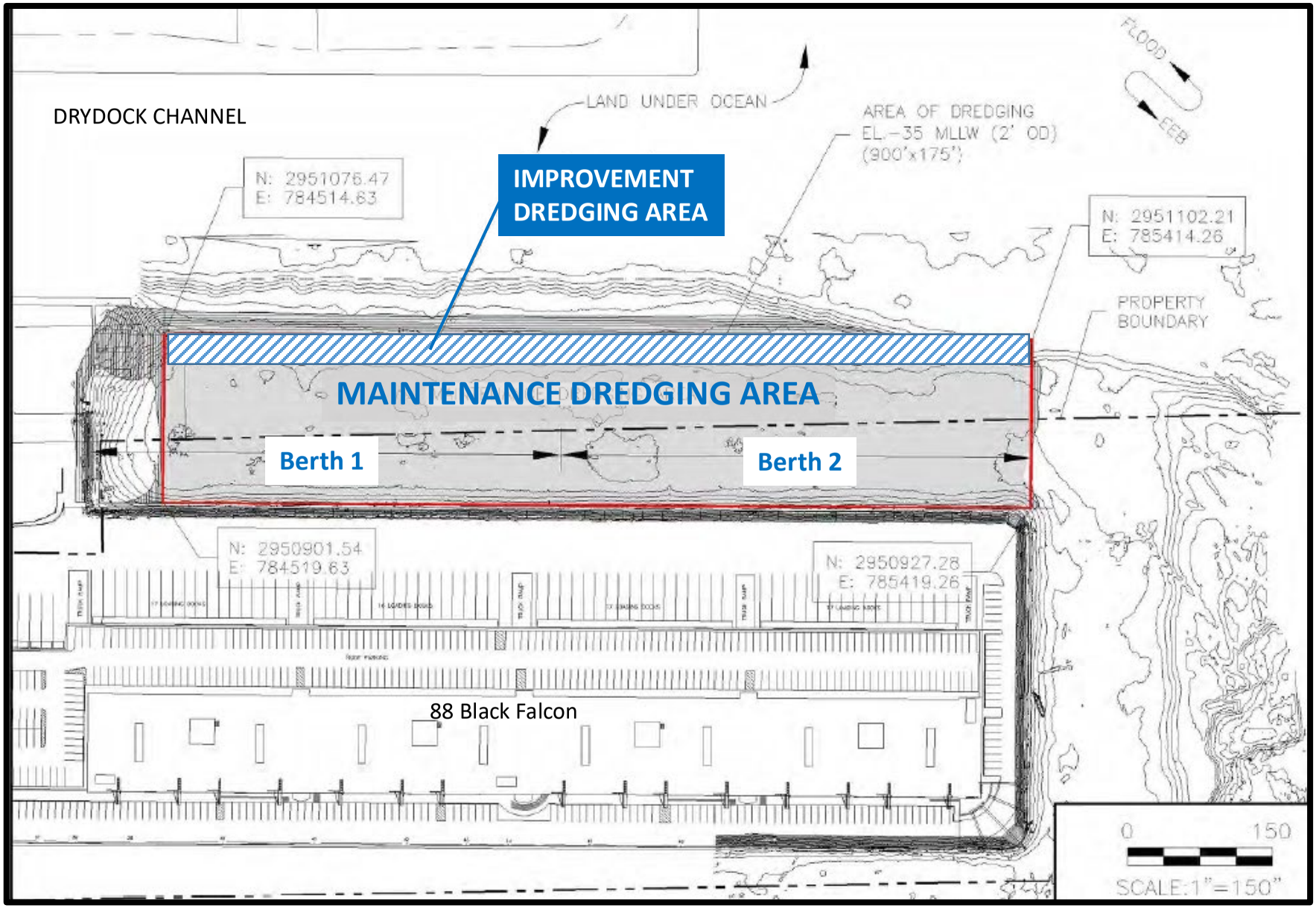
massport

Berths 1-2 Dredging Project

88 Black Falcon Avenue, South Boston, MA

Figure 3: Proposed Dredging Area

massport

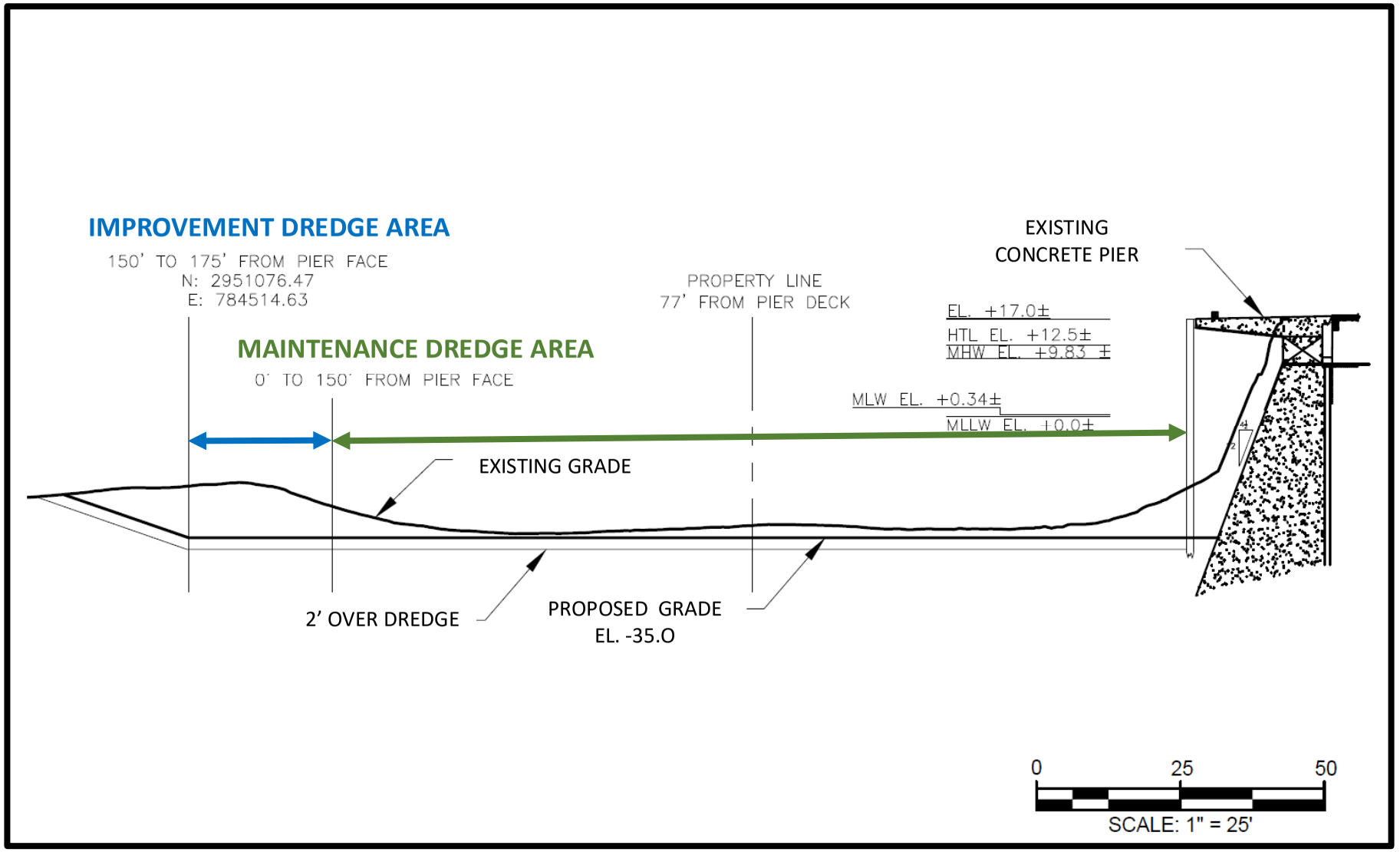


Berths 1-2 Dredging Project

88 Black Falcon Avenue, South Boston, MA

Figure 4: Proposed Dredging Plan

massport



Berths 1-2 Dredging Project

88 Black Falcon Avenue, South Boston, MA

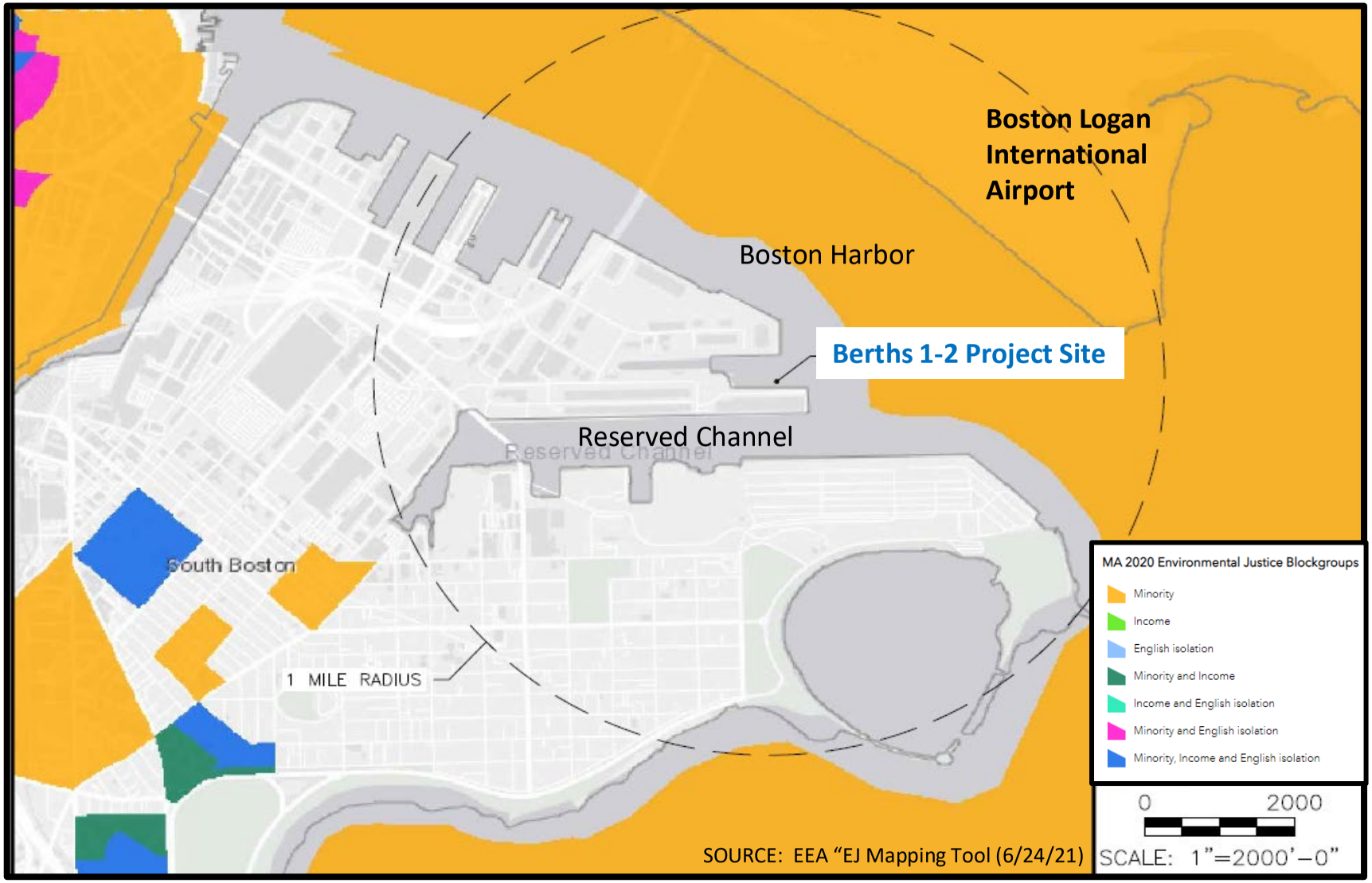
Figure 5: Proposed Dredge Section

Berths 1-2 Dredging Project

88 Black Falcon Avenue, South Boston, MA

Figure 6: Boston Harbor CAD Cell

massport



Berths 1-2 Dredging Project

88 Black Falcon Avenue, South Boston, MA

Figure 7: Environmental Justice Populations

ATTACHMENT 3
IMPROVEMENT DREDGING ALTERNATIVES ASSESSMENT

Black Falcon Pier Berths 1 and 2 Dredging
Environmental Notification Form – Attachment 4
Assessment of Improvement Dredging Alternatives

Project Purpose and Description

The Black Falcon Pier Berths 1 and 2 Dredging project (proposed project) consists of the dredging of a 900-foot long by 175-foot wide area along the north face of the Black Falcon Pier to establish a minimum depth of 35' at MLLW throughout, with an allowance for two feet of overdredge. All dredged material is to be disposed in the Boston Harbor Confined Aquatic Disposal (CAD) cell in the harbor's main shipping channel The purpose of the proposed project is to restore and maintain adequate depths for the safe berthing of vessels engaged in maritime commerce.

The proposed project consists of maintenance dredging along the 900-foot length of the pier and for a distance of approximately 150 feet north of the pier face. After Dredge Surveys completed in August 2000 for the U.S. Army Corps of Engineers (ACOE), document that dredging conducted in this area by the ACOE in the late 1990s established depths of -35' to -37' (MLLW).

In addition to the maintenance dredging, Massport proposes to extend the northern edge of the dredge footprint 25 feet to the north, into an area that previously was maintained at a depth of at least 30 feet. As documentary evidence of previous dredging within this area to a depth of at least -35' (MLLW) has not been found, it is assumed that the current proposal to dredge between the depths of -30' and -35' - plus two feet of overdredge - within this extended footprint area constitutes "improvement dredging", as that term is defined in the Massachusetts Wetlands Regulations at 310 CMR 10.23 and in the Water Quality Certification Regulations at 314 CMR 9.02.

Existing Site Conditions

The project site is located within an active marine terminal facility, owned and operated by Massport, within the South Boston Designated Port Area (DPA). This use is consistent with Massachusetts Coastal Zone Management policies concerning the use of DPAs. The berths currently are used for lay berthing of cruise ships and other vessels, including military vessels, and for the ship-to-shore transfer of materials by Coastal Cement Corporation, the tenant of an adjoining parcel to the west owned by the Boston Economic Development and Industrial Corporation (EDIC). These current users berth vessels with widths ranging from 75 feet for material transport barges to 120 feet

for cruise ships. Since the last maintenance dredging effort concluded in the late 1990s, sediments have accumulated reducing depths within areas of the berths to less than 30' at MLLW.

A series of 12 vibracore sediment samples were collected from within the site boundaries in June 2021 in compliance with the provisions of a site-specific sampling and analysis plan approved by the Massachusetts Department of Environmental Protection (Water Quality Certification Program) and the U.S. Army Corps of Engineers. The collected samples were submitted to a laboratory for the analysis of physical and chemical composition. The results of these analyses reveal that sediments throughout the proposed dredging footprint are suitable for disposal as dredged material in the CAD cell.

Need for Improvement Dredging

A significant user of the existing berths is Coastal Cement Corporation (Coastal Cement), a lessee of adjoining property belonging to EDIC. Currently, barges delivering materials to Coastal Cement are up to 300 feet in length and 75 feet in width. Coastal Cement anticipates future needs for berthing facilities capable of accommodating material transport vessels of up to 700 feet in length and approximately 100 feet in width. This anticipated width is not unusual, as modern material transport vessels of 100 feet in width are currently in use. Accordingly, the future berthing needs of Coastal Cement are for a width of 100 feet plus 75 feet for vessel maneuvering. The proposed "improvement dredging" is needed to establish minimum safe operating depths throughout the required maneuvering space.

Alternatives to Improvement Dredging

The area of proposed "improvement dredging" totals approximately 0.5 acres of the project site and is confined to the area between 150 and 175 feet north of the of the northern face of the Black Falcon pier. The form of "improvement" is limited to the deepening of the area from a previously established 30-foot depth to a depth of 35 feet plus two feet of overdredge allowance. Alternatives to this proposed deepening include 'no improvement dredging', 'reduced area improvement dredging', and 'reduced depth improvement dredging'.

No Improvement Dredging (No Action) Alternative

Coastal Cement anticipates future needs for berthing facilities capable of accommodating material transport vessels of up to 700 feet in length and approximately

100 feet in width. Accordingly, the future berthing needs of Coastal Cement are for a width of 100 feet plus 75 feet for vessel maneuvering.

The No Improvement Dredging alternative is one under which dredging to the minimum required depth of -35' at MLLW is limited to the area of "maintenance dredging" only and depths within the "improvement dredging" area remain at -24' to -30' (MLLW). This would limit the width of the minimum required depth at the berths to approximately 150 feet and the area of "improvement dredging" would remain at depths of approximately five (5) to 11 feet shallower than the minimum required to accommodate anticipated needs. Adoption of this alternative will render the facility unsuitable for Coastal Cement's anticipated use, as there will be insufficient width for safe use of the berths, and restrict the capacity of the berths to accommodate other, similarly-sized vessels.

Reduced Area Improvement Dredging

The Reduced Area Alternative considers the option of reducing the width of the "improvement dredging" area to less than the proposed 25 feet. By reducing the width of the proposed dredge footprint, the total volume of dredged material generated and requiring disposal can be reduced, but the area available for safe maneuvering of vessels approaching and departing the berths will be reduced as well. A 75-foot maneuvering area represents the minimum area required to safely maneuver a vessel of the size and design anticipated into its berth; accordingly, any reduction in the proposed width of dredging footprint will require a commensurate reduction in the width of the material transport vessel that can be accommodated at the berths. The accommodation of a vessel width of 100 feet is essential to the future operation of the berths, as modern vessels are already at such width and it will address the anticipated future needs of a current user. A dredging action that fails to address the berthing requirements of such vessels will adversely affect both the future operations of the existing user and the capacity of Massport to accommodate future demand.

Improvement Dredging – Reduced Depth Alternative

The Reduced Depth Alternative considers the option of dredging over the entirety of the "improvement dredging" area but to a lesser overall depth, with the area used for transitioning from the -35' depth of the "maintenance dredging" area to the existing depth at the outer edge of the "improvement dredging" area. As with the Reduced Area Alternative, this alternative will result in the generation of less material requiring disposal than the Proposed Action. This alternative will have the same adverse effect on future operations of the berths as the Reduced Area Alternative because the proposed -35' (MLLW) depth is the depth required to accommodate the anticipated needs of the current user. Areas that are not dredged to this minimum depth are not available for the maneuvering of the future material transport vessels.

ATTACHMENT 4
SEDIMENT SAMPLING RESULTS

Summary of Sediment Sampling Results

Analysis Parameter	Sediment Sample Reference (BFT #)											
	1	*8*	*2*	*3*	*4*	*5*	*6*	*7*	*9*	*10*	*11*	*12*
VOC (*ppb*)												
Acetone	86	140	55	33	50	100	56	81	150	110	270	220
Carbon disulfide	18	15	14	ND	8.2	ND	11	9.6	23	12	46	20
2-Butanone	20	33	13	6.8	11	21	13	17	34	25	57	49
Toluene	ND	1.8	ND	0.93	ND	1.5	ND	1.2	10	1.2	14	14
Naphthalene	ND	7.9	ND	ND	ND	ND	2.2	ND	ND	22	1.2	ND
Benzene	ND	0.82	ND	ND	ND	ND	ND	ND	2.7	0.55	1.5	1.8
Ethylbenzene	ND	0.3	ND	ND	ND	ND	ND	ND	0.68	0.36	1.6	0.75
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18	ND	ND
1,3,5-Trimethylbenzene	ND	0.74	ND	ND	ND	ND	ND	ND	1.1	0.84	ND	0.8
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1.2	1.3	ND	ND
p/m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	1.1	1	3.2	1.1
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	0.82	1	1.5	ND
Xylenes, total	ND	ND	ND	ND	ND	ND	ND	ND	1.9	2	4.7	1.1
	Composite A		**Composite B**		**Composite C**		**Composite D**		**Composite E**		**Composite F**	
Grain Size (*% passing*)												
sieve #4	73.9		86		99.5		93.9		86.5		91.3	
sieve #10	54.9		77.7		97.3		83.7		67		74.5	
sieve #40	43		70.1		93.5		73.3		51.8		56.6	
sieve #60	40.6		66.3		90.9		69.9		48.4		52.5	
sieve #200	36.3		58.9		81.8		61.6		42.5		42.5	
Arsenic (*ppm*)	14.9		14.3		15.2		14.4		14.9		12	
Cadmium (*ppm*)	2.99		1.07		0.56		1.5		0.857		0.372	
Chromium (*ppm*)	222		124		104		139		115		79.7	
Copper (*ppm*)	399		137		76.4		143		184		92	
Lead (*ppm*)	217		89.2		86.5		102		99.6		62.6	
Mercury (*ppm*)	1.35		1.54		0.9		0.824		0.578		0.333	
Nickel (*ppm*)	54		30.6		28.3		31.5		33.3		26	
Zinc (*ppm*)	500		192		164		207		232		146	
Water (*%*)	59.2		57.3		55.5		56.8		58.4		57.1	
EPHs (*ppm*)												
C9-C18 Aliphatics	45.1		ND		ND		23.8		ND		ND	
C19-C36 Aliphatics	15		99.2		29.5		80		21.3		ND	
C11-C22 Aromatics	67.3		ND		ND		37.8		21		ND	
TOC	3.51		2.47		2.29		2.34		2.21		2.33	
PAHs	*see detailed results*		*see detailed results*		*see detailed results*		*see detailed results*		*see detailed results*		*see detailed results*	
PCBs	*see detailed results*		*see detailed results*		*see detailed results*		*see detailed results*		*see detailed results*		*see detailed results*	

VOC = Volatile Organic Compounds
EPHs = Extractable Petroleum Hydrocarbons
TOC = Total Organic Carbon
PAH = Polynuclear Aeromatic Hydrocarbons - see detailed results
PCB = Polychlorinated Biphenyls - see detailed results

ANALYTICAL REPORT

Lab Number:	L2132138
Client:	Steele Associates Marine Consultants LLC 94 Gifford Street Falmouth, MA 02540
ATTN:	Eric Steele
Phone:	(508) 540-0001
Project Name:	BLACK FALCON TERMINAL
Project Number:	GEI-BFT-210614
Report Date:	06/24/21

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2132138-01	BFT-1	SEDIMENT	S. BOSTON, MA	06/14/21 11:22	06/14/21
L2132138-02	BFT-2	SEDIMENT	S. BOSTON, MA	06/14/21 10:45	06/14/21
L2132138-03	BFT-3	SEDIMENT	S. BOSTON, MA	06/14/21 10:30	06/14/21
L2132138-04	BFT-4	SEDIMENT	S. BOSTON, MA	06/14/21 10:00	06/14/21
L2132138-05	BFT-5	SEDIMENT	S. BOSTON, MA	06/14/21 09:25	06/14/21
L2132138-06	BFT-6	SEDIMENT	S. BOSTON, MA	06/14/21 11:00	06/14/21
L2132138-07	BFT-7	SEDIMENT	S. BOSTON, MA	06/14/21 10:40	06/14/21
L2132138-08	BFT-8	SEDIMENT	S. BOSTON, MA	06/14/21 11:46	06/14/21
L2132138-09	BFT-9	SEDIMENT	S. BOSTON, MA	06/14/21 12:04	06/14/21
L2132138-10	BFT-10	SEDIMENT	S. BOSTON, MA	06/14/21 12:21	06/14/21
L2132138-11	BFT-11	SEDIMENT	S. BOSTON, MA	06/14/21 12:51	06/14/21
L2132138-12	BFT-12	SEDIMENT	S. BOSTON, MA	06/14/21 13:14	06/14/21
L2132138-13	BFT-A	SEDIMENT	S. BOSTON, MA	06/14/21 11:46	06/14/21
L2132138-14	BFT-B	SEDIMENT	S. BOSTON, MA	06/14/21 10:45	06/14/21
L2132138-15	BFT-C	SEDIMENT	S. BOSTON, MA	06/14/21 10:00	06/14/21
L2132138-16	BFT-D	SEDIMENT	S. BOSTON, MA	06/14/21 11:00	06/14/21
L2132138-17	BFT-E	SEDIMENT	S. BOSTON, MA	06/14/21 12:21	06/14/21
L2132138-18	BFT-F	SEDIMENT	S. BOSTON, MA	06/14/21 13:14	06/14/21

Project Name:	BLACK FALCON TERMINAL	**Lab Number:**	L2132138
Project Number:	GEI-BFT-210614	**Report Date:**	06/24/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	BLACK FALCON TERMINAL	**Lab Number:**	L2132138
Project Number:	GEI-BFT-210614	**Report Date:**	06/24/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2132138-12: The sample identified as "BFT-12" on the chain of custody was identified as "BFT-11" on the label of the total solids container. At the client's request, the sample is reported as "BFT-12".

Total Metals

The WG1514079-3 MS recoveries for copper (68%) and zinc (48%), performed on L2132138-13, do not apply because the sample concentration is greater than four times the spike amount added.

The WG1514079-4 Laboratory Duplicate RPDs for lead (23%), nickel (24%) and zinc (32%), performed on L2132138-13, areoutside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Total Organic Carbon

The WG1512805-4 MS recoveries for total organic carbon (rep1) (0%) and total organic carbon (rep2) (127%) performed on L2132138-13, are outside the 75-125% acceptance criteria, possibly due to sample matrix. The associated SRM recoveries are within criteria, indicating the sample batch was in control, and all sample results were accepted.

Grain Size Analysis

The WG1513473-1 Laboratory Duplicate RPD for % fine gravel (30%), performed on L2132138-18, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 06/24/21

ORGANICS

VOLATILES

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-01
Client ID: BFT-1
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:22
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 17:24
Analyst: MV
Percent Solids: 40%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.3	3.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.24	1
Chloroform	ND		ug/kg	2.5	0.23	1
Carbon tetrachloride	ND		ug/kg	1.6	0.38	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.21	1
Dibromochloromethane	ND		ug/kg	1.6	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.44	1
Tetrachloroethene	ND		ug/kg	0.83	0.32	1
Chlorobenzene	ND		ug/kg	0.83	0.21	1
Trichlorofluoromethane	ND		ug/kg	6.6	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.42	1
1,1,1-Trichloroethane	ND		ug/kg	0.83	0.28	1
Bromodichloromethane	ND		ug/kg	0.83	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.45	1
cis-1,3-Dichloropropene	ND		ug/kg	0.83	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	0.83	0.26	1
1,1-Dichloropropene	ND		ug/kg	0.83	0.26	1
Bromoform	ND		ug/kg	6.6	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.83	0.27	1
Benzene	ND		ug/kg	0.83	0.27	1
Toluene	ND		ug/kg	1.6	0.90	1
Ethylbenzene	ND		ug/kg	1.6	0.23	1
Chloromethane	ND		ug/kg	6.6	1.5	1
Bromomethane	ND		ug/kg	3.3	0.96	1
Vinyl chloride	ND		ug/kg	1.6	0.55	1
Chloroethane	ND		ug/kg	3.3	0.75	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	0.23	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-01 Date Collected: 06/14/21 11:22

Client ID: BFT-1 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.83	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	3.3	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.3	0.33	1
p/m-Xylene	ND		ug/kg	3.3	0.93	1
o-Xylene	ND		ug/kg	1.6	0.48	1
Xylenes, Total	ND		ug/kg	1.6	0.48	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.29	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.23	1
Dibromomethane	ND		ug/kg	3.3	0.39	1
1,4-Dichlorobutane	ND		ug/kg	16	0.37	1
1,2,3-Trichloropropane	ND		ug/kg	3.3	0.21	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	16	1.5	1
Acetone	86		ug/kg	41	16.	1
Carbon disulfide	18		ug/kg	16	7.5	1
2-Butanone	20		ug/kg	16	3.7	1
Vinyl acetate	ND		ug/kg	16	3.6	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.1	1
2-Hexanone	ND		ug/kg	16	2.0	1
Ethyl methacrylate	ND		ug/kg	16	2.6	1
Acrylonitrile	ND		ug/kg	6.6	1.9	1
Bromochloromethane	ND		ug/kg	3.3	0.34	1
Tetrahydrofuran	ND		ug/kg	6.6	2.6	1
2,2-Dichloropropane	ND		ug/kg	3.3	0.33	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.46	1
1,3-Dichloropropane	ND		ug/kg	3.3	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.83	0.22	1
Bromobenzene	ND		ug/kg	3.3	0.24	1
n-Butylbenzene	ND		ug/kg	1.6	0.28	1
sec-Butylbenzene	ND		ug/kg	1.6	0.24	1
tert-Butylbenzene	ND		ug/kg	3.3	0.20	1
o-Chlorotoluene	ND		ug/kg	3.3	0.32	1
p-Chlorotoluene	ND		ug/kg	3.3	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	1.6	1
Hexachlorobutadiene	ND		ug/kg	6.6	0.28	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-01 Date Collected: 06/14/21 11:22

Client ID: BFT-1 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.6	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.18	1
Naphthalene	ND		ug/kg	6.6	1.1	1
n-Propylbenzene	ND		ug/kg	1.6	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	0.53	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	0.45	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.3	0.32	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.3	0.55	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.3	2.4	1
Ethyl ether	ND		ug/kg	3.3	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	110		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-02
Client ID: BFT-2
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:45
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 17:49
Analyst: MV
Percent Solids: 40%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	4.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.25	1
Chloroform	ND		ug/kg	2.6	0.24	1
Carbon tetrachloride	ND		ug/kg	1.8	0.40	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.47	1
Tetrachloroethene	ND		ug/kg	0.88	0.34	1
Chlorobenzene	ND		ug/kg	0.88	0.22	1
Trichlorofluoromethane	ND		ug/kg	7.0	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.45	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.29	1
Bromodichloromethane	ND		ug/kg	0.88	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.48	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	0.88	0.28	1
1,1-Dichloropropene	ND		ug/kg	0.88	0.28	1
Bromoform	ND		ug/kg	7.0	0.43	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.29	1
Benzene	ND		ug/kg	0.88	0.29	1
Toluene	ND		ug/kg	1.8	0.95	1
Ethylbenzene	ND		ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.0	1.6	1
Bromomethane	ND		ug/kg	3.5	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.59	1
Chloroethane	ND		ug/kg	3.5	0.79	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.24	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-02 Date Collected: 06/14/21 10:45

Client ID: BFT-2 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.88	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.5	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	3.5	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	3.5	0.30	1
Methyl tert butyl ether	ND		ug/kg	3.5	0.35	1
p/m-Xylene	ND		ug/kg	3.5	0.98	1
o-Xylene	ND		ug/kg	1.8	0.51	1
Xylenes, Total	ND		ug/kg	1.8	0.51	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.24	1
Dibromomethane	ND		ug/kg	3.5	0.42	1
1,4-Dichlorobutane	ND		ug/kg	18	0.40	1
1,2,3-Trichloropropane	ND		ug/kg	3.5	0.22	1
Styrene	ND		ug/kg	1.8	0.34	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Acetone	55		ug/kg	44	18.	1
Carbon disulfide	14	J	ug/kg	18	8.0	1
2-Butanone	13	J	ug/kg	18	3.9	1
Vinyl acetate	ND		ug/kg	18	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.2	1
2-Hexanone	ND		ug/kg	18	2.1	1
Ethyl methacrylate	ND		ug/kg	18	2.8	1
Acrylonitrile	ND		ug/kg	7.0	2.0	1
Bromochloromethane	ND		ug/kg	3.5	0.36	1
Tetrahydrofuran	ND		ug/kg	7.0	2.8	1
2,2-Dichloropropane	ND		ug/kg	3.5	0.35	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.49	1
1,3-Dichloropropane	ND		ug/kg	3.5	0.29	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	0.23	1
Bromobenzene	ND		ug/kg	3.5	0.25	1
n-Butylbenzene	ND		ug/kg	1.8	0.29	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
tert-Butylbenzene	ND		ug/kg	3.5	0.21	1
o-Chlorotoluene	ND		ug/kg	3.5	0.34	1
p-Chlorotoluene	ND		ug/kg	3.5	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.30	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-02 Date Collected: 06/14/21 10:45

Client ID: BFT-2 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.8	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.19	1
Naphthalene	ND		ug/kg	7.0	1.1	1
n-Propylbenzene	ND		ug/kg	1.8	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.5	0.56	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.5	0.48	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.5	0.34	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.5	0.59	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.8	2.5	1
Ethyl ether	ND		ug/kg	3.5	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	110		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-03 Date Collected: 06/14/21 10:30
Client ID: BFT-3 Date Received: 06/14/21
Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 18:15
Analyst: MV
Percent Solids: 47%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	0.93	J	ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-03 Date Collected: 06/14/21 10:30

Client ID: BFT-3 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
1,4-Dichlorobutane	ND		ug/kg	12	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	33		ug/kg	30	12.	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	6.8	J	ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Ethyl methacrylate	ND		ug/kg	12	1.9	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
Tetrahydrofuran	ND		ug/kg	4.8	1.9	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-03 Date Collected: 06/14/21 10:30

Client ID: BFT-3 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1
Ethyl ether	ND		ug/kg	2.4	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	112		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-04
Client ID: BFT-4
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 18:41
Analyst: MV
Percent Solids: 53%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-04 Date Collected: 06/14/21 10:00

Client ID: BFT-4 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
1,4-Dichlorobutane	ND		ug/kg	13	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	50		ug/kg	34	13.	1
Carbon disulfide	8.2	J	ug/kg	13	6.1	1
2-Butanone	11	J	ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Ethyl methacrylate	ND		ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	5.4	1.5	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
Tetrahydrofuran	ND		ug/kg	5.4	2.1	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-04 Date Collected: 06/14/21 10:00

Client ID: BFT-4 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1
Ethyl ether	ND		ug/kg	2.7	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	109		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-05
Client ID: BFT-5
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 09:25
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/21/21 10:11
Analyst: MV
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.5	3.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.25	1
Chloroform	ND		ug/kg	2.6	0.24	1
Carbon tetrachloride	ND		ug/kg	1.7	0.39	1
1,2-Dichloropropane	ND		ug/kg	1.7	0.21	1
Dibromochloromethane	ND		ug/kg	1.7	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.46	1
Tetrachloroethene	ND		ug/kg	0.85	0.33	1
Chlorobenzene	ND		ug/kg	0.85	0.22	1
Trichlorofluoromethane	ND		ug/kg	6.8	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.44	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.28	1
Bromodichloromethane	ND		ug/kg	0.85	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.47	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	0.85	0.27	1
1,1-Dichloropropene	ND		ug/kg	0.85	0.27	1
Bromoform	ND		ug/kg	6.8	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.28	1
Benzene	ND		ug/kg	0.85	0.28	1
Toluene	1.5	J	ug/kg	1.7	0.93	1
Ethylbenzene	ND		ug/kg	1.7	0.24	1
Chloromethane	ND		ug/kg	6.8	1.6	1
Bromomethane	ND		ug/kg	3.4	0.99	1
Vinyl chloride	ND		ug/kg	1.7	0.57	1
Chloroethane	ND		ug/kg	3.4	0.77	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.23	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-05 Date Collected: 06/14/21 09:25

Client ID: BFT-5 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.85	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	3.4	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.4	0.34	1
p/m-Xylene	ND		ug/kg	3.4	0.96	1
o-Xylene	ND		ug/kg	1.7	0.50	1
Xylenes, Total	ND		ug/kg	1.7	0.50	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.30	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	0.23	1
Dibromomethane	ND		ug/kg	3.4	0.41	1
1,4-Dichlorobutane	ND		ug/kg	17	0.39	1
1,2,3-Trichloropropane	ND		ug/kg	3.4	0.22	1
Styrene	ND		ug/kg	1.7	0.33	1
Dichlorodifluoromethane	ND		ug/kg	17	1.6	1
Acetone	100		ug/kg	43	17.	1
Carbon disulfide	ND		ug/kg	17	7.8	1
2-Butanone	21		ug/kg	17	3.8	1
Vinyl acetate	ND		ug/kg	17	3.7	1
4-Methyl-2-pentanone	ND		ug/kg	17	2.2	1
2-Hexanone	ND		ug/kg	17	2.0	1
Ethyl methacrylate	ND		ug/kg	17	2.7	1
Acrylonitrile	ND		ug/kg	6.8	2.0	1
Bromochloromethane	ND		ug/kg	3.4	0.35	1
Tetrahydrofuran	ND		ug/kg	6.8	2.7	1
2,2-Dichloropropane	ND		ug/kg	3.4	0.34	1
1,2-Dibromoethane	ND		ug/kg	1.7	0.48	1
1,3-Dichloropropane	ND		ug/kg	3.4	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.85	0.22	1
Bromobenzene	ND		ug/kg	3.4	0.25	1
n-Butylbenzene	ND		ug/kg	1.7	0.28	1
sec-Butylbenzene	ND		ug/kg	1.7	0.25	1
tert-Butylbenzene	ND		ug/kg	3.4	0.20	1
o-Chlorotoluene	ND		ug/kg	3.4	0.33	1
p-Chlorotoluene	ND		ug/kg	3.4	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	1.7	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.29	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-05 Date Collected: 06/14/21 09:25

Client ID: BFT-5 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.7	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.19	1
Naphthalene	ND		ug/kg	6.8	1.1	1
n-Propylbenzene	ND		ug/kg	1.7	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	0.55	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	0.46	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.4	0.33	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.4	0.57	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.5	2.4	1
Ethyl ether	ND		ug/kg	3.4	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-06
Client ID: BFT-6
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 19:33
Analyst: MV
Percent Solids: 44%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-06 Date Collected: 06/14/21 11:00

Client ID: BFT-6 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
1,4-Dichlorobutane	ND		ug/kg	13	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	56		ug/kg	33	13.	1
Carbon disulfide	11	J	ug/kg	13	6.0	1
2-Butanone	13		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Ethyl methacrylate	ND		ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
Tetrahydrofuran	ND		ug/kg	5.3	2.1	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-06 Date Collected: 06/14/21 11:00

Client ID: BFT-6 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	2.2	J	ug/kg	5.3	0.86	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1
Ethyl ether	ND		ug/kg	2.6	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	110		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-07
Client ID: BFT-7
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:40
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 15:39
Analyst: AJK
Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.6	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.41	1
Tetrachloroethene	ND		ug/kg	0.76	0.30	1
Chlorobenzene	ND		ug/kg	0.76	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.1	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	0.25	1
Bromodichloromethane	ND		ug/kg	0.76	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.42	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.76	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.76	0.24	1
Bromoform	ND		ug/kg	6.1	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	0.25	1
Benzene	ND		ug/kg	0.76	0.25	1
Toluene	1.2	J	ug/kg	1.5	0.83	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.1	1.4	1
Bromomethane	ND		ug/kg	3.0	0.88	1
Vinyl chloride	ND		ug/kg	1.5	0.51	1
Chloroethane	ND		ug/kg	3.0	0.69	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-07 Date Collected: 06/14/21 10:40

Client ID: BFT-7 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.76	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.85	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
1,4-Dichlorobutane	ND		ug/kg	15	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	81		ug/kg	38	15.	1
Carbon disulfide	9.6	J	ug/kg	15	6.9	1
2-Butanone	17		ug/kg	15	3.4	1
Vinyl acetate	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
2-Hexanone	ND		ug/kg	15	1.8	1
Ethyl methacrylate	ND		ug/kg	15	2.4	1
Acrylonitrile	ND		ug/kg	6.1	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
Tetrahydrofuran	ND		ug/kg	6.1	2.4	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.76	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.26	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-07 Date Collected: 06/14/21 10:40

Client ID: BFT-7 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.1	0.99	1
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.49	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	2.2	1
Ethyl ether	ND		ug/kg	3.0	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	99		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-08
Client ID: BFT-8
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:46
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 13:35
Analyst: AJK
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	4.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	ND		ug/kg	2.6	0.25	1
Carbon tetrachloride	ND		ug/kg	1.8	0.41	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.47	1
Tetrachloroethene	ND		ug/kg	0.88	0.35	1
Chlorobenzene	ND		ug/kg	0.88	0.22	1
Trichlorofluoromethane	ND		ug/kg	7.1	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.45	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.30	1
Bromodichloromethane	ND		ug/kg	0.88	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.48	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	0.88	0.28	1
1,1-Dichloropropene	ND		ug/kg	0.88	0.28	1
Bromoform	ND		ug/kg	7.1	0.43	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.29	1
Benzene	0.82	J	ug/kg	0.88	0.29	1
Toluene	1.8		ug/kg	1.8	0.96	1
Ethylbenzene	0.30	J	ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.1	1.6	1
Bromomethane	ND		ug/kg	3.5	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.59	1
Chloroethane	ND		ug/kg	3.5	0.80	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.24	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-08 Date Collected: 06/14/21 11:46

Client ID: BFT-8 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.88	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.5	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	3.5	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	3.5	0.30	1
Methyl tert butyl ether	ND		ug/kg	3.5	0.36	1
p/m-Xylene	ND		ug/kg	3.5	0.99	1
o-Xylene	ND		ug/kg	1.8	0.51	1
Xylenes, Total	ND		ug/kg	1.8	0.51	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.24	1
Dibromomethane	ND		ug/kg	3.5	0.42	1
1,4-Dichlorobutane	ND		ug/kg	18	0.40	1
1,2,3-Trichloropropane	ND		ug/kg	3.5	0.22	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Acetone	140		ug/kg	44	18.	1
Carbon disulfide	15	J	ug/kg	18	8.0	1
2-Butanone	33		ug/kg	18	3.9	1
Vinyl acetate	ND		ug/kg	18	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.3	1
2-Hexanone	ND		ug/kg	18	2.1	1
Ethyl methacrylate	ND		ug/kg	18	2.8	1
Acrylonitrile	ND		ug/kg	7.1	2.0	1
Bromochloromethane	ND		ug/kg	3.5	0.36	1
Tetrahydrofuran	ND		ug/kg	7.1	2.8	1
2,2-Dichloropropane	ND		ug/kg	3.5	0.36	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.49	1
1,3-Dichloropropane	ND		ug/kg	3.5	0.30	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	0.23	1
Bromobenzene	ND		ug/kg	3.5	0.26	1
n-Butylbenzene	ND		ug/kg	1.8	0.30	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
tert-Butylbenzene	ND		ug/kg	3.5	0.21	1
o-Chlorotoluene	ND		ug/kg	3.5	0.34	1
p-Chlorotoluene	ND		ug/kg	3.5	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.1	0.30	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-08 Date Collected: 06/14/21 11:46

Client ID: BFT-8 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.8	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.19	1
Naphthalene	7.9		ug/kg	7.1	1.1	1
n-Propylbenzene	ND		ug/kg	1.8	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.5	0.57	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.5	0.48	1
1,3,5-Trimethylbenzene	0.74	J	ug/kg	3.5	0.34	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.5	0.59	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.8	2.5	1
Ethyl ether	ND		ug/kg	3.5	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-09
Client ID: BFT-9
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:04
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 14:00
Analyst: AJK
Percent Solids: 36%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	4.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.28	1
Chloroform	ND		ug/kg	2.9	0.27	1
Carbon tetrachloride	ND		ug/kg	2.0	0.45	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.24	1
Dibromochloromethane	ND		ug/kg	2.0	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.52	1
Tetrachloroethene	ND		ug/kg	0.98	0.38	1
Chlorobenzene	ND		ug/kg	0.98	0.25	1
Trichlorofluoromethane	ND		ug/kg	7.8	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.50	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.33	1
Bromodichloromethane	ND		ug/kg	0.98	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.53	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	0.98	0.31	1
1,1-Dichloropropene	ND		ug/kg	0.98	0.31	1
Bromoform	ND		ug/kg	7.8	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.32	1
Benzene	2.7		ug/kg	0.98	0.32	1
Toluene	10		ug/kg	2.0	1.1	1
Ethylbenzene	0.68	J	ug/kg	2.0	0.28	1
Chloromethane	ND		ug/kg	7.8	1.8	1
Bromomethane	ND		ug/kg	3.9	1.1	1
Vinyl chloride	ND		ug/kg	2.0	0.66	1
Chloroethane	ND		ug/kg	3.9	0.88	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.27	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-09 Date Collected: 06/14/21 12:04

Client ID: BFT-9 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.98	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	3.9	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	3.9	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	3.9	0.33	1
Methyl tert butyl ether	ND		ug/kg	3.9	0.39	1
p/m-Xylene	1.1	J	ug/kg	3.9	1.1	1
o-Xylene	0.82	J	ug/kg	2.0	0.57	1
Xylenes, Total	1.9	J	ug/kg	2.0	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	2.0	0.27	1
Dibromomethane	ND		ug/kg	3.9	0.46	1
1,4-Dichlorobutane	ND		ug/kg	20	0.44	1
1,2,3-Trichloropropane	ND		ug/kg	3.9	0.25	1
Styrene	ND		ug/kg	2.0	0.38	1
Dichlorodifluoromethane	ND		ug/kg	20	1.8	1
Acetone	150		ug/kg	49	20.	1
Carbon disulfide	23		ug/kg	20	8.9	1
2-Butanone	34		ug/kg	20	4.3	1
Vinyl acetate	ND		ug/kg	20	4.2	1
4-Methyl-2-pentanone	ND		ug/kg	20	2.5	1
2-Hexanone	ND		ug/kg	20	2.3	1
Ethyl methacrylate	ND		ug/kg	20	3.1	1
Acrylonitrile	ND		ug/kg	7.8	2.2	1
Bromochloromethane	ND		ug/kg	3.9	0.40	1
Tetrahydrofuran	ND		ug/kg	7.8	3.1	1
2,2-Dichloropropane	ND		ug/kg	3.9	0.40	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.54	1
1,3-Dichloropropane	ND		ug/kg	3.9	0.33	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.98	0.26	1
Bromobenzene	ND		ug/kg	3.9	0.28	1
n-Butylbenzene	ND		ug/kg	2.0	0.33	1
sec-Butylbenzene	ND		ug/kg	2.0	0.28	1
tert-Butylbenzene	ND		ug/kg	3.9	0.23	1
o-Chlorotoluene	ND		ug/kg	3.9	0.37	1
p-Chlorotoluene	ND		ug/kg	3.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	2.0	1
Hexachlorobutadiene	ND		ug/kg	7.8	0.33	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-09 Date Collected: 06/14/21 12:04

Client ID: BFT-9 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	2.0	0.21	1
p-Isopropyltoluene	ND		ug/kg	2.0	0.21	1
Naphthalene	ND		ug/kg	7.8	1.3	1
n-Propylbenzene	ND		ug/kg	2.0	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.9	0.63	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.9	0.53	1
1,3,5-Trimethylbenzene	1.1	J	ug/kg	3.9	0.38	1
1,2,4-Trimethylbenzene	1.2	J	ug/kg	3.9	0.65	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.8	2.8	1
Ethyl ether	ND		ug/kg	3.9	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-10
Client ID: BFT-10
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:21
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 14:25
Analyst: AJK
Percent Solids: 44%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.42	1
Tetrachloroethene	ND		ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.3	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Bromodichloromethane	ND		ug/kg	0.78	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.43	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	0.25	1
1,1-Dichloropropene	ND		ug/kg	0.78	0.25	1
Bromoform	ND		ug/kg	6.3	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	0.26	1
Benzene	0.55	J	ug/kg	0.78	0.26	1
Toluene	1.2	J	ug/kg	1.6	0.85	1
Ethylbenzene	0.36	J	ug/kg	1.6	0.22	1
Chloromethane	ND		ug/kg	6.3	1.5	1
Bromomethane	ND		ug/kg	3.1	0.91	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
Chloroethane	ND		ug/kg	3.1	0.71	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-10 Date Collected: 06/14/21 12:21

Client ID: BFT-10 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	1.0	J	ug/kg	3.1	0.88	1
o-Xylene	1.0	J	ug/kg	1.6	0.46	1
Xylenes, Total	2.0	J	ug/kg	1.6	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.37	1
1,4-Dichlorobutane	ND		ug/kg	16	0.35	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.20	1
Styrene	ND		ug/kg	1.6	0.31	1
Dichlorodifluoromethane	ND		ug/kg	16	1.4	1
Acetone	110		ug/kg	39	16.	1
Carbon disulfide	12	J	ug/kg	16	7.1	1
2-Butanone	25		ug/kg	16	3.5	1
Vinyl acetate	ND		ug/kg	16	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.0	1
2-Hexanone	ND		ug/kg	16	1.8	1
Ethyl methacrylate	ND		ug/kg	16	2.5	1
Acrylonitrile	ND		ug/kg	6.3	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
Tetrahydrofuran	ND		ug/kg	6.3	2.5	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.44	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	0.21	1
Bromobenzene	ND		ug/kg	3.1	0.23	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.30	1
p-Chlorotoluene	ND		ug/kg	3.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	1.6	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.26	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-10 Date Collected: 06/14/21 12:21

Client ID: BFT-10 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	0.18	J	ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
Naphthalene	22		ug/kg	6.3	1.0	1
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.43	1
1,3,5-Trimethylbenzene	0.84	J	ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	3.1	0.52	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.8	2.2	1
Ethyl ether	ND		ug/kg	3.1	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-11
Client ID: BFT-11
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:51
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 14:50
Analyst: AJK
Percent Solids: 39%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.5	4.3	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.28	1
Chloroform	ND		ug/kg	2.8	0.26	1
Carbon tetrachloride	ND		ug/kg	1.9	0.44	1
1,2-Dichloropropane	ND		ug/kg	1.9	0.24	1
Dibromochloromethane	ND		ug/kg	1.9	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.51	1
Tetrachloroethene	ND		ug/kg	0.95	0.37	1
Chlorobenzene	ND		ug/kg	0.95	0.24	1
Trichlorofluoromethane	ND		ug/kg	7.6	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.49	1
1,1,1-Trichloroethane	ND		ug/kg	0.95	0.32	1
Bromodichloromethane	ND		ug/kg	0.95	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.52	1
cis-1,3-Dichloropropene	ND		ug/kg	0.95	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	0.95	0.30	1
1,1-Dichloropropene	ND		ug/kg	0.95	0.30	1
Bromoform	ND		ug/kg	7.6	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.95	0.31	1
Benzene	1.5		ug/kg	0.95	0.31	1
Toluene	14		ug/kg	1.9	1.0	1
Ethylbenzene	1.6	J	ug/kg	1.9	0.27	1
Chloromethane	ND		ug/kg	7.6	1.8	1
Bromomethane	ND		ug/kg	3.8	1.1	1
Vinyl chloride	ND		ug/kg	1.9	0.64	1
Chloroethane	ND		ug/kg	3.8	0.86	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.26	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-11 Date Collected: 06/14/21 12:51

Client ID: BFT-11 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.95	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.8	0.38	1
p/m-Xylene	3.2	J	ug/kg	3.8	1.1	1
o-Xylene	1.5	J	ug/kg	1.9	0.55	1
Xylenes, Total	4.7	J	ug/kg	1.9	0.55	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	1.9	0.26	1
Dibromomethane	ND		ug/kg	3.8	0.45	1
1,4-Dichlorobutane	ND		ug/kg	19	0.43	1
1,2,3-Trichloropropane	ND		ug/kg	3.8	0.24	1
Styrene	ND		ug/kg	1.9	0.37	1
Dichlorodifluoromethane	ND		ug/kg	19	1.7	1
Acetone	270		ug/kg	47	19.	1
Carbon disulfide	46		ug/kg	19	8.6	1
2-Butanone	57		ug/kg	19	4.2	1
Vinyl acetate	ND		ug/kg	19	4.1	1
4-Methyl-2-pentanone	ND		ug/kg	19	2.4	1
2-Hexanone	ND		ug/kg	19	2.2	1
Ethyl methacrylate	ND		ug/kg	19	3.0	1
Acrylonitrile	ND		ug/kg	7.6	2.2	1
Bromochloromethane	ND		ug/kg	3.8	0.39	1
Tetrahydrofuran	ND		ug/kg	7.6	3.0	1
2,2-Dichloropropane	ND		ug/kg	3.8	0.38	1
1,2-Dibromoethane	ND		ug/kg	1.9	0.53	1
1,3-Dichloropropane	ND		ug/kg	3.8	0.32	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.95	0.25	1
Bromobenzene	ND		ug/kg	3.8	0.28	1
n-Butylbenzene	ND		ug/kg	1.9	0.32	1
sec-Butylbenzene	ND		ug/kg	1.9	0.28	1
tert-Butylbenzene	ND		ug/kg	3.8	0.22	1
o-Chlorotoluene	ND		ug/kg	3.8	0.36	1
p-Chlorotoluene	ND		ug/kg	3.8	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	1.9	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.32	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-11 Date Collected: 06/14/21 12:51

Client ID: BFT-11 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.9	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.9	0.21	1
Naphthalene	1.2	J	ug/kg	7.6	1.2	1
n-Propylbenzene	ND		ug/kg	1.9	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	0.61	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	0.52	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.8	0.37	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.8	0.63	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.5	2.7	1
Ethyl ether	ND		ug/kg	3.8	0.65	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	98		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-12
Client ID: BFT-12
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 13:14
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 1,8260C
Analytical Date: 06/18/21 15:14
Analyst: AJK
Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	10	4.6	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.29	1
Chloroform	ND		ug/kg	3.0	0.28	1
Carbon tetrachloride	ND		ug/kg	2.0	0.46	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.25	1
Dibromochloromethane	ND		ug/kg	2.0	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.54	1
Tetrachloroethene	ND		ug/kg	1.0	0.40	1
Chlorobenzene	ND		ug/kg	1.0	0.26	1
Trichlorofluoromethane	ND		ug/kg	8.1	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.52	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.34	1
Bromodichloromethane	ND		ug/kg	1.0	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.55	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.32	1
1,1-Dichloropropene	ND		ug/kg	1.0	0.32	1
Bromoform	ND		ug/kg	8.1	0.50	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.34	1
Benzene	1.8		ug/kg	1.0	0.34	1
Toluene	14		ug/kg	2.0	1.1	1
Ethylbenzene	0.75	J	ug/kg	2.0	0.28	1
Chloromethane	ND		ug/kg	8.1	1.9	1
Bromomethane	ND		ug/kg	4.0	1.2	1
Vinyl chloride	ND		ug/kg	2.0	0.68	1
Chloroethane	ND		ug/kg	4.0	0.91	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	0.28	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-12 Date Collected: 06/14/21 13:14

Client ID: BFT-12 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.34	1
Methyl tert butyl ether	ND		ug/kg	4.0	0.40	1
p/m-Xylene	1.1	J	ug/kg	4.0	1.1	1
o-Xylene	ND		ug/kg	2.0	0.59	1
Xylenes, Total	1.1	J	ug/kg	2.0	0.59	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.35	1
1,2-Dichloroethene, Total	ND		ug/kg	2.0	0.28	1
Dibromomethane	ND		ug/kg	4.0	0.48	1
1,4-Dichlorobutane	ND		ug/kg	20	0.46	1
1,2,3-Trichloropropane	ND		ug/kg	4.0	0.26	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	20	1.8	1
Acetone	220		ug/kg	50	20.	1
Carbon disulfide	20		ug/kg	20	9.2	1
2-Butanone	49		ug/kg	20	4.5	1
Vinyl acetate	ND		ug/kg	20	4.3	1
4-Methyl-2-pentanone	ND		ug/kg	20	2.6	1
2-Hexanone	ND		ug/kg	20	2.4	1
Ethyl methacrylate	ND		ug/kg	20	3.2	1
Acrylonitrile	ND		ug/kg	8.1	2.3	1
Bromochloromethane	ND		ug/kg	4.0	0.41	1
Tetrahydrofuran	ND		ug/kg	8.1	3.2	1
2,2-Dichloropropane	ND		ug/kg	4.0	0.41	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.56	1
1,3-Dichloropropane	ND		ug/kg	4.0	0.34	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.27	1
Bromobenzene	ND		ug/kg	4.0	0.29	1
n-Butylbenzene	ND		ug/kg	2.0	0.34	1
sec-Butylbenzene	ND		ug/kg	2.0	0.29	1
tert-Butylbenzene	ND		ug/kg	4.0	0.24	1
o-Chlorotoluene	ND		ug/kg	4.0	0.38	1
p-Chlorotoluene	ND		ug/kg	4.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	2.0	1
Hexachlorobutadiene	ND		ug/kg	8.1	0.34	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-12 Date Collected: 06/14/21 13:14

Client ID: BFT-12 Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	2.0	0.22	1
p-Isopropyltoluene	ND		ug/kg	2.0	0.22	1
Naphthalene	ND		ug/kg	8.1	1.3	1
n-Propylbenzene	ND		ug/kg	2.0	0.34	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.65	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.55	1
1,3,5-Trimethylbenzene	0.80	J	ug/kg	4.0	0.39	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.67	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	10	2.9	1
Ethyl ether	ND		ug/kg	4.0	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	97		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 08:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-12 Batch: WG1514167-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
2-Chloroethylvinyl ether	ND		ug/kg	20	1.6
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.74	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 08:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-12 Batch: WG1514167-5					
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,4-Dichlorobutane	ND		ug/kg	10	0.23
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	0.32	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	25	10.
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Ethyl methacrylate	ND		ug/kg	10	1.6
Acrolein	ND		ug/kg	25	5.6
Acrylonitrile	ND		ug/kg	4.0	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 08:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-12 Batch: WG1514167-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Ethyl ether	ND		ug/kg	2.0	0.34
Methyl Acetate	ND		ug/kg	4.0	0.95
Ethyl Acetate	ND		ug/kg	10	1.2
Isopropyl Ether	ND		ug/kg	2.0	0.21
Cyclohexane	ND		ug/kg	10	0.54
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	80	35.
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 08:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-12 Batch: WG1514167-5					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	4.0	0.69

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 14:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06 Batch: WG1514256-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
2-Chloroethylvinyl ether	ND		ug/kg	20	1.6
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 14:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06 Batch: WG1514256-5					
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,4-Dichlorobutane	ND		ug/kg	10	0.23
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	0.55	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	25	10.
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	2.3	J	ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Ethyl methacrylate	ND		ug/kg	10	1.6
Acrolein	ND		ug/kg	25	5.6
Acrylonitrile	ND		ug/kg	4.0	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 14:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06 Batch: WG1514256-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Ethyl ether	ND		ug/kg	2.0	0.34
Methyl Acetate	ND		ug/kg	4.0	0.95
Ethyl Acetate	ND		ug/kg	10	1.2
Isopropyl Ether	ND		ug/kg	2.0	0.21
Cyclohexane	ND		ug/kg	10	0.54
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	80	35.
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/21 14:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06 Batch: WG1514256-5					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	4.0	0.69

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/21 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1514739-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
2-Chloroethylvinyl ether	ND		ug/kg	20	1.6
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.0	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/21 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1514739-5					
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,4-Dichlorobutane	ND		ug/kg	10	0.23
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	25	10.
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Ethyl methacrylate	ND		ug/kg	10	1.6
Acrolein	ND		ug/kg	25	5.6
Acrylonitrile	ND		ug/kg	4.0	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/21 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1514739-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Ethyl ether	ND		ug/kg	2.0	0.34
Methyl Acetate	ND		ug/kg	4.0	0.95
Ethyl Acetate	ND		ug/kg	10	1.2
Isopropyl Ether	ND		ug/kg	2.0	0.21
Cyclohexane	ND		ug/kg	10	0.54
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	80	35.
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/21 08:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1514739-5					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	4.0	0.69

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-12 Batch: WG1514167-3 WG1514167-4								
Methylene chloride	91		87		70-130	4		30
1,1-Dichloroethane	103		99		70-130	4		30
Chloroform	98		93		70-130	5		30
Carbon tetrachloride	105		101		70-130	4		30
1,2-Dichloropropane	101		97		70-130	4		30
Dibromochloromethane	89		86		70-130	3		30
1,1,2-Trichloroethane	95		92		70-130	3		30
2-Chloroethylvinyl ether	105		102		70-130	3		30
Tetrachloroethene	99		92		70-130	7		30
Chlorobenzene	90		85		70-130	6		30
Trichlorofluoromethane	108		96		70-139	12		30
1,2-Dichloroethane	94		93		70-130	1		30
1,1,1-Trichloroethane	102		96		70-130	6		30
Bromodichloromethane	90		88		70-130	2		30
trans-1,3-Dichloropropene	101		98		70-130	3		30
cis-1,3-Dichloropropene	94		92		70-130	2		30
1,1-Dichloropropene	106		100		70-130	6		30
Bromoform	90		89		70-130	1		30
1,1,2,2-Tetrachloroethane	91		90		70-130	1		30
Benzene	94		90		70-130	4		30
Toluene	98		92		70-130	6		30
Ethylbenzene	103		97		70-130	6		30
Chloromethane	118		112		52-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-12 Batch: WG1514167-3 WG1514167-4								
Bromomethane	142		138		57-147	3		30
Vinyl chloride	101		94		67-130	7		30
Chloroethane	88		82		50-151	7		30
1,1-Dichloroethene	105		99		65-135	6		30
trans-1,2-Dichloroethene	102		96		70-130	6		30
Trichloroethene	98		93		70-130	5		30
1,2-Dichlorobenzene	94		92		70-130	2		30
1,3-Dichlorobenzene	96		93		70-130	3		30
1,4-Dichlorobenzene	95		93		70-130	2		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	96		90		70-130	6		30
o-Xylene	94		89		70-130	5		30
cis-1,2-Dichloroethene	96		92		70-130	4		30
Dibromomethane	92		90		70-130	2		30
1,4-Dichlorobutane	101		100		70-130	1		30
1,2,3-Trichloropropane	99		98		68-130	1		30
Styrene	91		87		70-130	4		30
Dichlorodifluoromethane	100		93		30-146	7		30
Acetone	102		104		54-140	2		30
Carbon disulfide	98		93		59-130	5		30
2-Butanone	95		96		70-130	1		30
Vinyl acetate	100		96		70-130	4		30
4-Methyl-2-pentanone	103		101		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-12 Batch: WG1514167-3 WG1514167-4								
2-Hexanone	102		100		70-130	2		30
Ethyl methacrylate	101		98		70-130	3		30
Acrolein	106		102		70-130	4		30
Acrylonitrile	108		107		70-130	1		30
Bromochloromethane	91		88		70-130	3		30
Tetrahydrofuran	106		105		66-130	1		30
2,2-Dichloropropane	109		102		70-130	7		30
1,2-Dibromoethane	89		87		70-130	2		30
1,3-Dichloropropane	98		95		69-130	3		30
1,1,1,2-Tetrachloroethane	90		86		70-130	5		30
Bromobenzene	92		90		70-130	2		30
n-Butylbenzene	110		105		70-130	5		30
sec-Butylbenzene	108		104		70-130	4		30
tert-Butylbenzene	105		100		70-130	5		30
1,3,5-Trichlorobenzene	99		96		70-139	3		30
o-Chlorotoluene	104		100		70-130	4		30
p-Chlorotoluene	103		100		70-130	3		30
1,2-Dibromo-3-chloropropane	94		92		68-130	2		30
Hexachlorobutadiene	98		95		67-130	3		30
Isopropylbenzene	106		101		70-130	5		30
p-Isopropyltoluene	107		102		70-130	5		30
Naphthalene	94		95		70-130	1		30
n-Propylbenzene	109		105		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-12 Batch: WG1514167-3 WG1514167-4								
1,2,3-Trichlorobenzene	92		92		70-130	0		30
1,2,4-Trichlorobenzene	96		94		70-130	2		30
1,3,5-Trimethylbenzene	105		101		70-130	4		30
1,2,4-Trimethylbenzene	103		100		70-130	3		30
trans-1,4-Dichloro-2-butene	106		103		70-130	3		30
Ethyl ether	95		94		67-130	1		30
Methyl Acetate	97		98		65-130	1		30
Ethyl Acetate	94		93		70-130	1		30
Isopropyl Ether	105		102		66-130	3		30
Cyclohexane	116		110		70-130	5		30
Tert-Butyl Alcohol	101		100		70-130	1		30
Ethyl-Tert-Butyl-Ether	99		96		70-130	3		30
Tertiary-Amyl Methyl Ether	96		94		70-130	2		30
1,4-Dioxane	92		92		65-136	0		30
Methyl cyclohexane	109		102		70-130	7		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		103		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06 Batch: WG1514256-3 WG1514256-4								
Methylene chloride	98		94		70-130	4		30
1,1-Dichloroethane	105		102		70-130	3		30
Chloroform	94		93		70-130	1		30
Carbon tetrachloride	108		107		70-130	1		30
1,2-Dichloropropane	101		99		70-130	2		30
Dibromochloromethane	93		93		70-130	0		30
1,1,2-Trichloroethane	94		95		70-130	1		30
2-Chloroethylvinyl ether	91		100		70-130	9		30
Tetrachloroethene	115		110		70-130	4		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	96		93		70-139	3		30
1,2-Dichloroethane	92		93		70-130	1		30
1,1,1-Trichloroethane	104		102		70-130	2		30
Bromodichloromethane	97		98		70-130	1		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
cis-1,3-Dichloropropene	94		95		70-130	1		30
1,1-Dichloropropene	107		103		70-130	4		30
Bromoform	99		101		70-130	2		30
1,1,2,2-Tetrachloroethane	93		98		70-130	5		30
Benzene	89		88		70-130	1		30
Toluene	99		96		70-130	3		30
Ethylbenzene	109		105		70-130	4		30
Chloromethane	105		97		52-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06 Batch: WG1514256-3 WG1514256-4								
Bromomethane	**53**	Q	**52**	Q	57-147	2		30
Vinyl chloride	**59**	Q	**54**	Q	67-130	9		30
Chloroethane	**45**	Q	**43**	Q	50-151	5		30
1,1-Dichloroethene	102		98		65-135	4		30
trans-1,2-Dichloroethene	96		93		70-130	3		30
Trichloroethene	95		94		70-130	1		30
1,2-Dichlorobenzene	91		91		70-130	0		30
1,3-Dichlorobenzene	94		92		70-130	2		30
1,4-Dichlorobenzene	91		91		70-130	0		30
Methyl tert butyl ether	95		95		66-130	0		30
p/m-Xylene	98		95		70-130	3		30
o-Xylene	98		95		70-130	3		30
cis-1,2-Dichloroethene	91		89		70-130	2		30
Dibromomethane	84		86		70-130	2		30
1,4-Dichlorobutane	106		110		70-130	4		30
1,2,3-Trichloropropane	91		94		68-130	3		30
Styrene	94		91		70-130	3		30
Dichlorodifluoromethane	104		100		30-146	4		30
Acetone	101		92		54-140	9		30
Carbon disulfide	93		87		59-130	7		30
2-Butanone	91		93		70-130	2		30
Vinyl acetate	92		90		70-130	2		30
4-Methyl-2-pentanone	121		124		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06 Batch: WG1514256-3 WG1514256-4								
2-Hexanone	105		109		70-130	4		30
Ethyl methacrylate	108		110		70-130	2		30
Acrolein	113		108		70-130	5		30
Acrylonitrile	106		111		70-130	5		30
Bromochloromethane	80		80		70-130	0		30
Tetrahydrofuran	94		96		66-130	2		30
2,2-Dichloropropane	112		110		70-130	2		30
1,2-Dibromoethane	93		95		70-130	2		30
1,3-Dichloropropane	101		100		69-130	1		30
1,1,1,2-Tetrachloroethane	91		92		70-130	1		30
Bromobenzene	97		96		70-130	1		30
n-Butylbenzene	112		111		70-130	1		30
sec-Butylbenzene	110		107		70-130	3		30
tert-Butylbenzene	108		106		70-130	2		30
1,3,5-Trichlorobenzene	112		111		70-139	1		30
o-Chlorotoluene	106		104		70-130	2		30
p-Chlorotoluene	106		104		70-130	2		30
1,2-Dibromo-3-chloropropane	98		104		68-130	6		30
Hexachlorobutadiene	**133**	Q	130		67-130	2		30
Isopropylbenzene	109		106		70-130	3		30
p-Isopropyltoluene	111		108		70-130	3		30
Naphthalene	95		98		70-130	3		30
n-Propylbenzene	109		106		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06 Batch: WG1514256-3 WG1514256-4								
1,2,3-Trichlorobenzene	106		109		70-130	3		30
1,2,4-Trichlorobenzene	112		113		70-130	1		30
1,3,5-Trimethylbenzene	109		108		70-130	1		30
1,2,4-Trimethylbenzene	109		108		70-130	1		30
trans-1,4-Dichloro-2-butene	106		112		70-130	6		30
Ethyl ether	85		85		67-130	0		30
Methyl Acetate	88		88		65-130	0		30
Ethyl Acetate	85		87		70-130	2		30
Isopropyl Ether	105		104		66-130	1		30
Cyclohexane	**132**	Q	128		70-130	3		30
Tert-Butyl Alcohol	107		113		70-130	5		30
Ethyl-Tert-Butyl-Ether	108		108		70-130	0		30
Tertiary-Amyl Methyl Ether	94		98		70-130	4		30
1,4-Dioxane	87		93		65-136	7		30
Methyl cyclohexane	106		105		70-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	108		103		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		109		70-130
Toluene-d8	111		110		70-130
4-Bromofluorobenzene	117		114		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1514739-3 WG1514739-4								
Methylene chloride	82		81		70-130	1		30
1,1-Dichloroethane	94		92		70-130	2		30
Chloroform	88		87		70-130	1		30
Carbon tetrachloride	95		93		70-130	2		30
1,2-Dichloropropane	91		89		70-130	2		30
Dibromochloromethane	79		79		70-130	0		30
1,1,2-Trichloroethane	83		83		70-130	0		30
2-Chloroethylvinyl ether	90		92		70-130	2		30
Tetrachloroethene	86		84		70-130	2		30
Chlorobenzene	80		80		70-130	0		30
Trichlorofluoromethane	96		93		70-139	3		30
1,2-Dichloroethane	86		85		70-130	1		30
1,1,1-Trichloroethane	92		89		70-130	3		30
Bromodichloromethane	82		81		70-130	1		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	86		85		70-130	1		30
1,1-Dichloropropene	95		92		70-130	3		30
Bromoform	79		79		70-130	0		30
1,1,2,2-Tetrachloroethane	79		80		70-130	1		30
Benzene	85		83		70-130	2		30
Toluene	87		86		70-130	1		30
Ethylbenzene	92		90		70-130	2		30
Chloromethane	107		103		52-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1514739-3 WG1514739-4								
Bromomethane	142		135		57-147	5		30
Vinyl chloride	89		86		67-130	3		30
Chloroethane	78		75		50-151	4		30
1,1-Dichloroethene	93		90		65-135	3		30
trans-1,2-Dichloroethene	91		89		70-130	2		30
Trichloroethene	88		85		70-130	3		30
1,2-Dichlorobenzene	84		84		70-130	0		30
1,3-Dichlorobenzene	86		85		70-130	1		30
1,4-Dichlorobenzene	85		84		70-130	1		30
Methyl tert butyl ether	84		84		66-130	0		30
p/m-Xylene	85		84		70-130	1		30
o-Xylene	84		82		70-130	2		30
cis-1,2-Dichloroethene	87		85		70-130	2		30
Dibromomethane	83		82		70-130	1		30
1,4-Dichlorobutane	88		88		70-130	0		30
1,2,3-Trichloropropane	85		85		68-130	0		30
Styrene	81		80		70-130	1		30
Dichlorodifluoromethane	85		83		30-146	2		30
Acetone	87		88		54-140	1		30
Carbon disulfide	89		86		59-130	3		30
2-Butanone	86		86		70-130	0		30
Vinyl acetate	91		90		70-130	1		30
4-Methyl-2-pentanone	86		88		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1514739-3 WG1514739-4								
2-Hexanone	85		86		70-130	1		30
Ethyl methacrylate	86		87		70-130	1		30
Acrolein	92		92		70-130	0		30
Acrylonitrile	93		93		70-130	0		30
Bromochloromethane	83		81		70-130	2		30
Tetrahydrofuran	91		92		66-130	1		30
2,2-Dichloropropane	100		96		70-130	4		30
1,2-Dibromoethane	78		78		70-130	0		30
1,3-Dichloropropane	86		86		69-130	0		30
1,1,1,2-Tetrachloroethane	80		79		70-130	1		30
Bromobenzene	84		82		70-130	2		30
n-Butylbenzene	98		96		70-130	2		30
sec-Butylbenzene	96		94		70-130	2		30
tert-Butylbenzene	94		92		70-130	2		30
1,3,5-Trichlorobenzene	88		87		70-139	1		30
o-Chlorotoluene	93		91		70-130	2		30
p-Chlorotoluene	93		92		70-130	1		30
1,2-Dibromo-3-chloropropane	79		80		68-130	1		30
Hexachlorobutadiene	85		86		67-130	1		30
Isopropylbenzene	95		93		70-130	2		30
p-Isopropyltoluene	95		94		70-130	1		30
Naphthalene	81		83		70-130	2		30
n-Propylbenzene	97		96		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1514739-3 WG1514739-4								
1,2,3-Trichlorobenzene	80		81		70-130	1		30
1,2,4-Trichlorobenzene	86		85		70-130	1		30
1,3,5-Trimethylbenzene	94		92		70-130	2		30
1,2,4-Trimethylbenzene	92		91		70-130	1		30
trans-1,4-Dichloro-2-butene	90		92		70-130	2		30
Ethyl ether	86		84		67-130	2		30
Methyl Acetate	85		85		65-130	0		30
Ethyl Acetate	81		81		70-130	0		30
Isopropyl Ether	95		94		66-130	1		30
Cyclohexane	102		100		70-130	2		30
Tert-Butyl Alcohol	82		84		70-130	2		30
Ethyl-Tert-Butyl-Ether	88		87		70-130	1		30
Tertiary-Amyl Methyl Ether	84		84		70-130	0		30
1,4-Dioxane	80		82		65-136	2		30
Methyl cyclohexane	94		93		70-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	97		94		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	96		95		70-130

SEMIVOLATILES

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-13
Client ID: BFT-A
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:46
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 14:51
Analyst: GP
Percent Solids: 41%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	762		ug/kg	9.71	4.85	1
Acenaphthylene	172		ug/kg	9.71	4.85	1
Acenaphthene	607		ug/kg	9.71	4.85	1
Fluorene	671		ug/kg	9.71	4.85	1
Phenanthrene	2830	E	ug/kg	9.71	4.85	1
Anthracene	763		ug/kg	9.71	4.85	1
Fluoranthene	4850	E	ug/kg	9.71	4.85	1
Pyrene	4000	E	ug/kg	9.71	4.85	1
Benz(a)anthracene	2070	E	ug/kg	9.71	4.85	1
Chrysene	1650		ug/kg	9.71	4.85	1
Benzo(b)fluoranthene	1710		ug/kg	9.71	4.85	1
Benzo(k)fluoranthene	1080		ug/kg	9.71	4.85	1
Benzo(a)pyrene	1350		ug/kg	9.71	4.85	1
Indeno(1,2,3-cd)Pyrene	796		ug/kg	9.71	4.85	1
Dibenz(a,h)anthracene	256		ug/kg	9.71	4.85	1
Benzo(ghi)perylene	841		ug/kg	9.71	4.85	1
Cl2-BZ#8	2.61		ug/kg	0.971	0.485	1
Cl3-BZ#18	7.60		ug/kg	0.971	0.485	1
Cl3-BZ#28	9.15		ug/kg	0.971	0.485	1
Cl4-BZ#44	17.9		ug/kg	0.971	0.485	1
Cl4-BZ#49	10.9		ug/kg	0.971	0.485	1
Cl4-BZ#52	34.1		ug/kg	0.971	0.485	1
Cl4-BZ#66	16.8		ug/kg	0.971	0.485	1
Cl5-BZ#87	34.7		ug/kg	0.971	0.485	1
Cl5-BZ#101	85.3		ug/kg	0.971	0.485	1
Cl5-BZ#105	28.8		ug/kg	0.971	0.485	1
Cl5-BZ#118	64.8		ug/kg	0.971	0.485	1
Cl6-BZ#128	20.7		ug/kg	0.971	0.485	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-13 Date Collected: 06/14/21 11:46

Client ID: BFT-A Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Cl6-BZ#138	83.3		ug/kg	0.971	0.485	1
Cl6-BZ#153	56.9		ug/kg	0.971	0.485	1
Cl7-BZ#170	16.5		ug/kg	0.971	0.485	1
Cl7-BZ#180	27.1		ug/kg	0.971	0.485	1
Cl7-BZ#183	7.15		ug/kg	0.971	0.485	1
Cl7-BZ#184	ND		ug/kg	0.971	0.485	1
Cl7-BZ#187	14.9		ug/kg	0.971	0.485	1
Cl8-BZ#195	2.35		ug/kg	0.971	0.485	1
Cl9-BZ#206	3.29		ug/kg	0.971	0.485	1
Cl10-BZ#209	2.08		ug/kg	0.971	0.485	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	82		30-150
Pyrene-d10	84		30-150
Benzo(b)fluoranthene-d12	78		30-150
DBOB	107		50-125
BZ 198	100		50-125

Project Name: BLACK FALCON TERMINAL
Lab Number: L2132138
Project Number: GEI-BFT-210614
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-13 D
Client ID: BFT-A
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:46
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 18:06
Analyst: GP
Percent Solids: 41%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Phenanthrene	2710		ug/kg	97.1	48.5	10
Fluoranthene	4700		ug/kg	97.1	48.5	10
Pyrene	3940		ug/kg	97.1	48.5	10
Benz(a)anthracene	1940		ug/kg	97.1	48.5	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	76		30-150
Pyrene-d10	80		30-150
Benzo(b)fluoranthene-d12	78		30-150
DBOB	96		50-125
BZ 198	86		50-125

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-14
Client ID: BFT-B
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:45
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 15:23
Analyst: GP
Percent Solids: 43%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	105		ug/kg	8.88	4.44	1
Acenaphthylene	70.6		ug/kg	8.88	4.44	1
Acenaphthene	28.1		ug/kg	8.88	4.44	1
Fluorene	48.4		ug/kg	8.88	4.44	1
Phenanthrene	283		ug/kg	8.88	4.44	1
Anthracene	118		ug/kg	8.88	4.44	1
Fluoranthene	647		ug/kg	8.88	4.44	1
Pyrene	966		ug/kg	8.88	4.44	1
Benz(a)anthracene	411		ug/kg	8.88	4.44	1
Chrysene	413		ug/kg	8.88	4.44	1
Benzo(b)fluoranthene	554		ug/kg	8.88	4.44	1
Benzo(k)fluoranthene	340		ug/kg	8.88	4.44	1
Benzo(a)pyrene	477		ug/kg	8.88	4.44	1
Indeno(1,2,3-cd)Pyrene	292		ug/kg	8.88	4.44	1
Dibenz(a,h)anthracene	96.4		ug/kg	8.88	4.44	1
Benzo(ghi)perylene	334		ug/kg	8.88	4.44	1
Cl2-BZ#8	0.844	J	ug/kg	0.888	0.444	1
Cl3-BZ#18	1.36		ug/kg	0.888	0.444	1
Cl3-BZ#28	4.68		ug/kg	0.888	0.444	1
Cl4-BZ#44	5.19		ug/kg	0.888	0.444	1
Cl4-BZ#49	2.49		ug/kg	0.888	0.444	1
Cl4-BZ#52	4.88		ug/kg	0.888	0.444	1
Cl4-BZ#66	4.35		ug/kg	0.888	0.444	1
Cl5-BZ#87	4.56		ug/kg	0.888	0.444	1
Cl5-BZ#101	12.3		ug/kg	0.888	0.444	1
Cl5-BZ#105	4.52		ug/kg	0.888	0.444	1
Cl5-BZ#118	11.4		ug/kg	0.888	0.444	1
Cl6-BZ#128	3.32		ug/kg	0.888	0.444	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-14 Date Collected: 06/14/21 10:45

Client ID: BFT-B Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Cl6-BZ#138	14.8		ug/kg	0.888	0.444	1
Cl6-BZ#153	11.9		ug/kg	0.888	0.444	1
Cl7-BZ#170	5.44		ug/kg	0.888	0.444	1
Cl7-BZ#180	7.26		ug/kg	0.888	0.444	1
Cl7-BZ#183	1.84		ug/kg	0.888	0.444	1
Cl7-BZ#184	ND		ug/kg	0.888	0.444	1
Cl7-BZ#187	4.76		ug/kg	0.888	0.444	1
Cl8-BZ#195	1.44		ug/kg	0.888	0.444	1
Cl9-BZ#206	2.34		ug/kg	0.888	0.444	1
Cl10-BZ#209	2.08		ug/kg	0.888	0.444	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	70		30-150
Pyrene-d10	80		30-150
Benzo(b)fluoranthene-d12	72		30-150
DBOB	105		50-125
BZ 198	116		50-125

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-15
Client ID: BFT-C
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 15:56
Analyst: GP
Percent Solids: 45%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	111		ug/kg	8.35	4.17	1
Acenaphthylene	91.2		ug/kg	8.35	4.17	1
Acenaphthene	39.2		ug/kg	8.35	4.17	1
Fluorene	66.3		ug/kg	8.35	4.17	1
Phenanthrene	349		ug/kg	8.35	4.17	1
Anthracene	152		ug/kg	8.35	4.17	1
Fluoranthene	1070		ug/kg	8.35	4.17	1
Pyrene	1130		ug/kg	8.35	4.17	1
Benz(a)anthracene	678		ug/kg	8.35	4.17	1
Chrysene	559		ug/kg	8.35	4.17	1
Benzo(b)fluoranthene	720		ug/kg	8.35	4.17	1
Benzo(k)fluoranthene	456		ug/kg	8.35	4.17	1
Benzo(a)pyrene	568		ug/kg	8.35	4.17	1
Indeno(1,2,3-cd)Pyrene	372		ug/kg	8.35	4.17	1
Dibenz(a,h)anthracene	117		ug/kg	8.35	4.17	1
Benzo(ghi)perylene	388		ug/kg	8.35	4.17	1
Cl2-BZ#8	0.433	J	ug/kg	0.835	0.417	1
Cl3-BZ#18	1.17		ug/kg	0.835	0.417	1
Cl3-BZ#28	0.431	J	ug/kg	0.835	0.417	1
Cl4-BZ#44	1.66		ug/kg	0.835	0.417	1
Cl4-BZ#49	1.15		ug/kg	0.835	0.417	1
Cl4-BZ#52	2.09		ug/kg	0.835	0.417	1
Cl4-BZ#66	1.38		ug/kg	0.835	0.417	1
Cl5-BZ#87	ND		ug/kg	0.835	0.417	1
Cl5-BZ#101	5.31		ug/kg	0.835	0.417	1
Cl5-BZ#105	ND		ug/kg	0.835	0.417	1
Cl5-BZ#118	5.86		ug/kg	0.835	0.417	1
Cl6-BZ#128	0.725	J	ug/kg	0.835	0.417	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-15 Date Collected: 06/14/21 10:00

Client ID: BFT-C Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Cl6-BZ#138	4.14		ug/kg	0.835	0.417	1
Cl6-BZ#153	3.45		ug/kg	0.835	0.417	1
Cl7-BZ#170	2.04		ug/kg	0.835	0.417	1
Cl7-BZ#180	1.72		ug/kg	0.835	0.417	1
Cl7-BZ#183	0.615	J	ug/kg	0.835	0.417	1
Cl7-BZ#184	ND		ug/kg	0.835	0.417	1
Cl7-BZ#187	1.52		ug/kg	0.835	0.417	1
Cl8-BZ#195	ND		ug/kg	0.835	0.417	1
Cl9-BZ#206	ND		ug/kg	0.835	0.417	1
Cl10-BZ#209	ND		ug/kg	0.835	0.417	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	75		30-150
Pyrene-d10	83		30-150
Benzo(b)fluoranthene-d12	76		30-150
DBOB	111		50-125
BZ 198	88		50-125

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-16
Client ID: BFT-D
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 16:29
Analyst: GP
Percent Solids: 43%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	280		ug/kg	8.78	4.39	1
Acenaphthylene	78.5		ug/kg	8.78	4.39	1
Acenaphthene	43.7		ug/kg	8.78	4.39	1
Fluorene	74.4		ug/kg	8.78	4.39	1
Phenanthrene	364		ug/kg	8.78	4.39	1
Anthracene	165		ug/kg	8.78	4.39	1
Fluoranthene	1080		ug/kg	8.78	4.39	1
Pyrene	1140		ug/kg	8.78	4.39	1
Benz(a)anthracene	589		ug/kg	8.78	4.39	1
Chrysene	492		ug/kg	8.78	4.39	1
Benzo(b)fluoranthene	634		ug/kg	8.78	4.39	1
Benzo(k)fluoranthene	398		ug/kg	8.78	4.39	1
Benzo(a)pyrene	492		ug/kg	8.78	4.39	1
Indeno(1,2,3-cd)Pyrene	335		ug/kg	8.78	4.39	1
Dibenz(a,h)anthracene	104		ug/kg	8.78	4.39	1
Benzo(ghi)perylene	363		ug/kg	8.78	4.39	1
Cl2-BZ#8	1.60		ug/kg	0.878	0.439	1
Cl3-BZ#18	2.91		ug/kg	0.878	0.439	1
Cl3-BZ#28	3.22		ug/kg	0.878	0.439	1
Cl4-BZ#44	6.86		ug/kg	0.878	0.439	1
Cl4-BZ#49	4.52		ug/kg	0.878	0.439	1
Cl4-BZ#52	9.27		ug/kg	0.878	0.439	1
Cl4-BZ#66	6.36		ug/kg	0.878	0.439	1
Cl5-BZ#87	7.64		ug/kg	0.878	0.439	1
Cl5-BZ#101	19.5		ug/kg	0.878	0.439	1
Cl5-BZ#105	6.27		ug/kg	0.878	0.439	1
Cl5-BZ#118	16.6		ug/kg	0.878	0.439	1
Cl6-BZ#128	7.97		ug/kg	0.878	0.439	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-16 Date Collected: 06/14/21 11:00

Client ID: BFT-D Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Cl6-BZ#138	21.7		ug/kg	0.878	0.439	1
Cl6-BZ#153	15.6		ug/kg	0.878	0.439	1
Cl7-BZ#170	6.91		ug/kg	0.878	0.439	1
Cl7-BZ#180	9.57		ug/kg	0.878	0.439	1
Cl7-BZ#183	2.72		ug/kg	0.878	0.439	1
Cl7-BZ#187	8.06		ug/kg	0.878	0.439	1
Cl8-BZ#195	1.92		ug/kg	0.878	0.439	1
Cl9-BZ#206	1.99		ug/kg	0.878	0.439	1
Cl10-BZ#209	1.55		ug/kg	0.878	0.439	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	73		30-150
Pyrene-d10	80		30-150
Benzo(b)fluoranthene-d12	76		30-150
DBOB	106		50-125
BZ 198	109		50-125

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-17
Client ID: BFT-E
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:21
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 17:02
Analyst: GP
Percent Solids: 42%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	418		ug/kg	9.35	4.68	1
Acenaphthylene	73.5		ug/kg	9.35	4.68	1
Acenaphthene	262		ug/kg	9.35	4.68	1
Fluorene	328		ug/kg	9.35	4.68	1
Phenanthrene	1010		ug/kg	9.35	4.68	1
Anthracene	534		ug/kg	9.35	4.68	1
Fluoranthene	2690	E	ug/kg	9.35	4.68	1
Pyrene	2020	E	ug/kg	9.35	4.68	1
Benz(a)anthracene	989		ug/kg	9.35	4.68	1
Chrysene	894		ug/kg	9.35	4.68	1
Benzo(b)fluoranthene	980		ug/kg	9.35	4.68	1
Benzo(k)fluoranthene	600		ug/kg	9.35	4.68	1
Benzo(a)pyrene	685		ug/kg	9.35	4.68	1
Indeno(1,2,3-cd)Pyrene	462		ug/kg	9.35	4.68	1
Dibenz(a,h)anthracene	148		ug/kg	9.35	4.68	1
Benzo(ghi)perylene	501		ug/kg	9.35	4.68	1
Cl2-BZ#8	0.520	J	ug/kg	0.935	0.468	1
Cl3-BZ#18	2.04		ug/kg	0.935	0.468	1
Cl3-BZ#28	1.33		ug/kg	0.935	0.468	1
Cl4-BZ#44	4.52		ug/kg	0.935	0.468	1
Cl4-BZ#49	2.18		ug/kg	0.935	0.468	1
Cl4-BZ#52	4.16		ug/kg	0.935	0.468	1
Cl4-BZ#66	3.41		ug/kg	0.935	0.468	1
Cl5-BZ#87	2.98		ug/kg	0.935	0.468	1
Cl5-BZ#101	14.2		ug/kg	0.935	0.468	1
Cl5-BZ#105	4.11		ug/kg	0.935	0.468	1
Cl5-BZ#118	10.2		ug/kg	0.935	0.468	1
Cl6-BZ#128	3.99		ug/kg	0.935	0.468	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-17 Date Collected: 06/14/21 12:21

Client ID: BFT-E Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Cl6-BZ#138	13.8		ug/kg	0.935	0.468	1
Cl6-BZ#153	11.2		ug/kg	0.935	0.468	1
Cl7-BZ#170	3.48		ug/kg	0.935	0.468	1
Cl7-BZ#180	5.43		ug/kg	0.935	0.468	1
Cl7-BZ#183	1.85		ug/kg	0.935	0.468	1
Cl7-BZ#184	ND		ug/kg	0.935	0.468	1
Cl7-BZ#187	5.41		ug/kg	0.935	0.468	1
Cl8-BZ#195	ND		ug/kg	0.935	0.468	1
Cl9-BZ#206	1.55		ug/kg	0.935	0.468	1
Cl10-BZ#209	0.787	J	ug/kg	0.935	0.468	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	66		30-150
Pyrene-d10	73		30-150
Benzo(b)fluoranthene-d12	69		30-150
DBOB	94		50-125
BZ 198	103		50-125

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-17 D
Client ID: BFT-E
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:21
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 20:16
Analyst: GP
Percent Solids: 42%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Fluoranthene	2630		ug/kg	93.5	46.8	10
Pyrene	2010		ug/kg	93.5	46.8	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	65		30-150
Pyrene-d10	72		30-150
Benzo(b)fluoranthene-d12	60		30-150
DBOB	94		50-125
BZ 198	75		50-125

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-18
Client ID: BFT-F
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 13:14
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 17:34
Analyst: GP
Percent Solids: 43%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	55.2		ug/kg	8.92	4.46	1
Acenaphthylene	54.8		ug/kg	8.92	4.46	1
Acenaphthene	77.4		ug/kg	8.92	4.46	1
Fluorene	120		ug/kg	8.92	4.46	1
Phenanthrene	1020		ug/kg	8.92	4.46	1
Anthracene	282		ug/kg	8.92	4.46	1
Fluoranthene	2960	E	ug/kg	8.92	4.46	1
Pyrene	2370	E	ug/kg	8.92	4.46	1
Benz(a)anthracene	1430		ug/kg	8.92	4.46	1
Chrysene	1240		ug/kg	8.92	4.46	1
Benzo(b)fluoranthene	1630		ug/kg	8.92	4.46	1
Benzo(k)fluoranthene	840		ug/kg	8.92	4.46	1
Benzo(a)pyrene	1130		ug/kg	8.92	4.46	1
Indeno(1,2,3-cd)Pyrene	839		ug/kg	8.92	4.46	1
Dibenz(a,h)anthracene	284		ug/kg	8.92	4.46	1
Benzo(ghi)perylene	846		ug/kg	8.92	4.46	1
Cl2-BZ#8	ND		ug/kg	0.892	0.446	1
Cl3-BZ#18	ND		ug/kg	0.892	0.446	1
Cl3-BZ#28	0.814	J	ug/kg	0.892	0.446	1
Cl4-BZ#44	1.41		ug/kg	0.892	0.446	1
Cl4-BZ#49	0.893		ug/kg	0.892	0.446	1
Cl4-BZ#52	1.70		ug/kg	0.892	0.446	1
Cl4-BZ#66	1.80		ug/kg	0.892	0.446	1
Cl5-BZ#87	1.58		ug/kg	0.892	0.446	1
Cl5-BZ#101	5.94		ug/kg	0.892	0.446	1
Cl5-BZ#105	ND		ug/kg	0.892	0.446	1
Cl5-BZ#118	5.14		ug/kg	0.892	0.446	1
Cl6-BZ#128	2.09		ug/kg	0.892	0.446	1

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-18 Date Collected: 06/14/21 13:14

Client ID: BFT-F Date Received: 06/14/21

Sample Location: S. BOSTON, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Cl6-BZ#138	6.53		ug/kg	0.892	0.446	1
Cl6-BZ#153	4.88		ug/kg	0.892	0.446	1
Cl7-BZ#170	1.92		ug/kg	0.892	0.446	1
Cl7-BZ#180	2.47		ug/kg	0.892	0.446	1
Cl7-BZ#183	0.989		ug/kg	0.892	0.446	1
Cl7-BZ#184	ND		ug/kg	0.892	0.446	1
Cl7-BZ#187	1.70		ug/kg	0.892	0.446	1
Cl8-BZ#195	ND		ug/kg	0.892	0.446	1
Cl9-BZ#206	ND		ug/kg	0.892	0.446	1
Cl10-BZ#209	ND		ug/kg	0.892	0.446	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	70		30-150
Pyrene-d10	79		30-150
Benzo(b)fluoranthene-d12	74		30-150
DBOB	106		50-125
BZ 198	85		50-125

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-18 D
Client ID: BFT-F
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 13:14
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 20:48
Analyst: GP
Percent Solids: 43%

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:52
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Fluoranthene	2900		ug/kg	89.2	44.6	10
Pyrene	2290		ug/kg	89.2	44.6	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	67		30-150
Pyrene-d10	77		30-150
Benzo(b)fluoranthene-d12	73		30-150
DBOB	112		50-125
BZ 198	79		50-125

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 13:12
Analyst: GP

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:46
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL
PAHs/PCB Congeners by GC/MS - Mansfield Lab for sample(s): 13-18 Batch: WG1513579-1					
Naphthalene	ND		ug/kg	4.00	2.00
Acenaphthylene	ND		ug/kg	4.00	2.00
Acenaphthene	ND		ug/kg	4.00	2.00
Fluorene	ND		ug/kg	4.00	2.00
Phenanthrene	ND		ug/kg	4.00	2.00
Anthracene	ND		ug/kg	4.00	2.00
Fluoranthene	ND		ug/kg	4.00	2.00
Pyrene	ND		ug/kg	4.00	2.00
Benz(a)anthracene	ND		ug/kg	4.00	2.00
Chrysene	ND		ug/kg	4.00	2.00
Benzo(b)fluoranthene	ND		ug/kg	4.00	2.00
Benzo(k)fluoranthene	ND		ug/kg	4.00	2.00
Benzo(a)pyrene	ND		ug/kg	4.00	2.00
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	4.00	2.00
Dibenz(a,h)anthracene	ND		ug/kg	4.00	2.00
Benzo(ghi)perylene	ND		ug/kg	4.00	2.00
Cl2-BZ#8	ND		ug/kg	0.400	0.200
Cl3-BZ#18	ND		ug/kg	0.400	0.200
Cl3-BZ#28	ND		ug/kg	0.400	0.200
Cl4-BZ#44	ND		ug/kg	0.400	0.200
Cl4-BZ#49	ND		ug/kg	0.400	0.200
Cl4-BZ#52	ND		ug/kg	0.400	0.200
Cl4-BZ#66	ND		ug/kg	0.400	0.200
Cl5-BZ#87	ND		ug/kg	0.400	0.200
Cl5-BZ#101	ND		ug/kg	0.400	0.200
Cl5-BZ#105	ND		ug/kg	0.400	0.200
Cl5-BZ#118	ND		ug/kg	0.400	0.200
Cl6-BZ#128	ND		ug/kg	0.400	0.200
Cl6-BZ#138	ND		ug/kg	0.400	0.200

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 06/23/21 13:12
Analyst: GP

Extraction Method: EPA 3570
Extraction Date: 06/17/21 23:46
Cleanup Method: EPA 3630
Cleanup Date: 06/18/21

Parameter	Result	Qualifier	Units	RL	MDL
PAHs/PCB Congeners by GC/MS - Mansfield Lab for sample(s): 13-18 Batch: WG1513579-1					
Cl6-BZ#153	ND		ug/kg	0.400	0.200
Cl7-BZ#170	ND		ug/kg	0.400	0.200
Cl7-BZ#180	ND		ug/kg	0.400	0.200
Cl7-BZ#183	ND		ug/kg	0.400	0.200
Cl7-BZ#184	ND		ug/kg	0.400	0.200
Cl7-BZ#187	ND		ug/kg	0.400	0.200
Cl8-BZ#195	ND		ug/kg	0.400	0.200
Cl9-BZ#206	ND		ug/kg	0.400	0.200
Cl10-BZ#209	ND		ug/kg	0.400	0.200

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-150
Pyrene-d10	87		30-150
Benzo(b)fluoranthene-d12	88		30-150
DBOB	110		50-125
BZ 198	98		50-125

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 13-18 Batch: WG1513579-2 WG1513579-3								
Naphthalene	65		75		40-140	14		30
Acenaphthylene	71		78		40-140	9		30
Acenaphthene	69		75		40-140	8		30
Fluorene	71		78		40-140	9		30
Phenanthrene	69		76		40-140	10		30
Anthracene	72		77		40-140	7		30
Fluoranthene	75		80		40-140	6		30
Pyrene	77		83		40-140	8		30
Benz(a)anthracene	81		88		40-140	8		30
Chrysene	72		77		40-140	7		30
Benzo(b)fluoranthene	86		93		40-140	8		30
Benzo(k)fluoranthene	77		80		40-140	4		30
Benzo(a)pyrene	81		89		40-140	9		30
Indeno(1,2,3-cd)Pyrene	77		83		40-140	8		30
Dibenz(a,h)anthracene	77		83		40-140	8		30
Benzo(ghi)perylene	82		88		40-140	7		30
Cl2-BZ#8	86		95		40-140	10		50
Cl3-BZ#18	84		92		40-140	9		50
Cl3-BZ#28	87		96		40-140	10		50
Cl4-BZ#44	90		99		40-140	10		50
Cl4-BZ#49	89		95		40-140	7		50
Cl4-BZ#52	88		95		40-140	8		50
Cl4-BZ#66	92		101		40-140	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 13-18 Batch: WG1513579-2 WG1513579-3								
Cl5-BZ#87	91		98		40-140	7		50
Cl5-BZ#101	96		102		40-140	6		50
Cl5-BZ#105	94		101		40-140	7		50
Cl5-BZ#118	91		99		40-140	8		50
Cl6-BZ#128	96		103		40-140	7		50
Cl6-BZ#138	97		104		40-140	7		50
Cl6-BZ#153	93		105		40-140	12		50
Cl7-BZ#170	99		106		40-140	7		50
Cl7-BZ#180	90		98		40-140	9		50
Cl7-BZ#183	92		98		40-140	6		50
Cl7-BZ#184	94		102		40-140	8		50
Cl7-BZ#187	99		109		40-140	10		50
Cl8-BZ#195	101		109		40-140	8		50
Cl9-BZ#206	97		105		40-140	8		50
Cl10-BZ#209	96		104		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Methylnaphthalene-d10	74		81		30-150
Pyrene-d10	84		88		30-150
Benzo(b)fluoranthene-d12	86		90		30-150
DBOB	109		118		50-125
BZ 198	98		102		50-125

PETROLEUM HYDROCARBONS

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID:	L2132138-13	Date Collected:	06/14/21 11:46
Client ID:	BFT-A	Date Received:	06/14/21
Sample Location:	S. BOSTON, MA	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Sediment	Extraction Method:	EPA 3546
Analytical Method:	135,EPH-19-2.1	Extraction Date:	06/19/21 23:49
Analytical Date:	06/21/21 12:23	Cleanup Method1:	EPH-19-2.1
Analyst:	SR	Cleanup Date1:	06/21/21
Percent Solids:	41%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Extractable Petroleum Hydrocarbons - Westborough Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
C9-C18 Aliphatics	45.1		mg/kg	15.8	15.8	1
C19-C36 Aliphatics	115		mg/kg	15.8	15.8	1
C11-C22 Aromatics	71.5		mg/kg	15.8	15.8	1
C11-C22 Aromatics, Adjusted	67.3		mg/kg	15.8	15.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	72		40-140
o-Terphenyl	68		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	86		40-140

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID:	L2132138-14	Date Collected:	06/14/21 10:45
Client ID:	BFT-B	Date Received:	06/14/21
Sample Location:	S. BOSTON, MA	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Sediment	Extraction Method:	EPA 3546
Analytical Method:	135,EPH-19-2.1	Extraction Date:	06/21/21 17:12
Analytical Date:	06/22/21 07:01	Cleanup Method1:	EPH-19-2.1
Analyst:	SC	Cleanup Date1:	06/22/21
Percent Solids:	43%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	44.5	44.5	1
C19-C36 Aliphatics	99.2		mg/kg	44.5	44.5	1
C11-C22 Aromatics	ND		mg/kg	44.5	44.5	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	44.5	44.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	67		40-140
o-Terphenyl	51		40-140
2-Fluorobiphenyl	67		40-140
2-Bromonaphthalene	68		40-140

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID:	L2132138-15	Date Collected:	06/14/21 10:00
Client ID:	BFT-C	Date Received:	06/14/21
Sample Location:	S. BOSTON, MA	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Sediment	Extraction Method:	EPA 3546
Analytical Method:	135,EPH-19-2.1	Extraction Date:	06/19/21 23:50
Analytical Date:	06/21/21 14:03	Cleanup Method1:	EPH-19-2.1
Analyst:	SR	Cleanup Date1:	06/21/21
Percent Solids:	45%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.9	14.9	1
C19-C36 Aliphatics	29.5		mg/kg	14.9	14.9	1
C11-C22 Aromatics	ND		mg/kg	14.9	14.9	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	14.9	14.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	82		40-140

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID:	L2132138-16	Date Collected:	06/14/21 11:00
Client ID:	BFT-D	Date Received:	06/14/21
Sample Location:	S. BOSTON, MA	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Sediment	Extraction Method:	EPA 3546
Analytical Method:	135,EPH-19-2.1	Extraction Date:	06/19/21 23:50
Analytical Date:	06/21/21 13:13	Cleanup Method1:	EPH-19-2.1
Analyst:	SR	Cleanup Date1:	06/21/21
Percent Solids:	43%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	23.8		mg/kg	14.9	14.9	1
C19-C36 Aliphatics	80.0		mg/kg	14.9	14.9	1
C11-C22 Aromatics	37.8		mg/kg	14.9	14.9	1
C11-C22 Aromatics, Adjusted	37.8		mg/kg	14.9	14.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	76		40-140
o-Terphenyl	79		40-140
2-Fluorobiphenyl	98		40-140
2-Bromonaphthalene	94		40-140

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID:	L2132138-17	Date Collected:	06/14/21 12:21
Client ID:	BFT-E	Date Received:	06/14/21
Sample Location:	S. BOSTON, MA	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Sediment	Extraction Method:	EPA 3546
Analytical Method:	135,EPH-19-2.1	Extraction Date:	06/19/21 23:50
Analytical Date:	06/21/21 14:28	Cleanup Method1:	EPH-19-2.1
Analyst:	SR	Cleanup Date1:	06/21/21
Percent Solids:	42%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Extractable Petroleum Hydrocarbons - Westborough Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
C9-C18 Aliphatics	ND		mg/kg	15.1	15.1	1
C19-C36 Aliphatics	21.3		mg/kg	15.1	15.1	1
C11-C22 Aromatics	21.0		mg/kg	15.1	15.1	1
C11-C22 Aromatics, Adjusted	21.0		mg/kg	15.1	15.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	79		40-140
2-Fluorobiphenyl	100		40-140
2-Bromonaphthalene	101		40-140

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID:	L2132138-18	Date Collected:	06/14/21 13:14
Client ID:	BFT-F	Date Received:	06/14/21
Sample Location:	S. BOSTON, MA	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Sediment	Extraction Method:	EPA 3546
Analytical Method:	135,EPH-19-2.1	Extraction Date:	06/19/21 23:50
Analytical Date:	06/21/21 13:38	Cleanup Method1:	EPH-19-2.1
Analyst:	SR	Cleanup Date1:	06/21/21
Percent Solids:	43%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	14.8	14.8	1
C19-C36 Aliphatics	ND		mg/kg	14.8	14.8	1
C11-C22 Aromatics	ND		mg/kg	14.8	14.8	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	14.8	14.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	75		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	90		40-140
2-Bromonaphthalene	92		40-140

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 06/21/21 14:10
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 06/19/21 23:49
Cleanup Method: EPH-19-2.1
Cleanup Date: 06/21/21

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 13,15-18 Batch: WG1514422-1					
C9-C18 Aliphatics	ND		mg/kg	6.38	6.38
C19-C36 Aliphatics	ND		mg/kg	6.38	6.38
C11-C22 Aromatics	ND		mg/kg	6.38	6.38
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.38	6.38

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	79		40-140
o-Terphenyl	85		40-140
2-Fluorobiphenyl	92		40-140
2-Bromonaphthalene	94		40-140

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 06/22/21 06:36
Analyst: SC

Extraction Method: EPA 3546
Extraction Date: 06/21/21 17:12
Cleanup Method: EPH-19-2.1
Cleanup Date: 06/22/21

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 14 Batch: WG1515030-1					
C9-C18 Aliphatics	ND		mg/kg	6.48	6.48
C19-C36 Aliphatics	ND		mg/kg	6.48	6.48
C11-C22 Aromatics	ND		mg/kg	6.48	6.48
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.48	6.48

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	71		40-140
o-Terphenyl	58		40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	74		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 13,15-18 Batch: WG1514422-2 WG1514422-3								
C9-C18 Aliphatics	57		59		40-140	3		25
C19-C36 Aliphatics	93		97		40-140	4		25
C11-C22 Aromatics	91		77		40-140	17		25
Naphthalene	85		71		40-140	18		25
2-Methylnaphthalene	85		72		40-140	17		25
Acenaphthylene	84		70		40-140	18		25
Acenaphthene	88		74		40-140	17		25
Fluorene	90		74		40-140	20		25
Phenanthrene	88		73		40-140	19		25
Anthracene	91		76		40-140	18		25
Fluoranthene	88		74		40-140	17		25
Pyrene	89		74		40-140	18		25
Benzo(a)anthracene	92		76		40-140	19		25
Chrysene	90		76		40-140	17		25
Benzo(b)fluoranthene	85		70		40-140	19		25
Benzo(k)fluoranthene	82		70		40-140	16		25
Benzo(a)pyrene	86		72		40-140	18		25
Indeno(1,2,3-cd)Pyrene	78		65		40-140	18		25
Dibenzo(a,h)anthracene	86		73		40-140	16		25
Benzo(ghi)perylene	75		63		40-140	17		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 13,15-18 Batch: WG1514422-2 WG1514422-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	78		82		40-140
o-Terphenyl	85		69		40-140
2-Fluorobiphenyl	93		77		40-140
2-Bromonaphthalene	94		77		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 14 Batch: WG1515030-2 WG1515030-3								
C9-C18 Aliphatics	66		75		40-140	13		25
C19-C36 Aliphatics	84		96		40-140	13		25
C11-C22 Aromatics	68		66		40-140	3		25
Naphthalene	62		60		40-140	3		25
2-Methylnaphthalene	63		62		40-140	2		25
Acenaphthylene	61		59		40-140	3		25
Acenaphthene	64		63		40-140	2		25
Fluorene	64		63		40-140	2		25
Phenanthrene	66		63		40-140	5		25
Anthracene	66		63		40-140	5		25
Fluoranthene	69		66		40-140	4		25
Pyrene	68		66		40-140	3		25
Benzo(a)anthracene	71		70		40-140	1		25
Chrysene	66		66		40-140	0		25
Benzo(b)fluoranthene	66		65		40-140	2		25
Benzo(k)fluoranthene	63		63		40-140	0		25
Benzo(a)pyrene	67		67		40-140	0		25
Indeno(1,2,3-cd)Pyrene	61		61		40-140	0		25
Dibenzo(a,h)anthracene	64		64		40-140	0		25
Benzo(ghi)perylene	58		59		40-140	2		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 14 Batch: WG1515030-2 WG1515030-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	74		84		40-140
o-Terphenyl	63		58		40-140
2-Fluorobiphenyl	75		64		40-140
2-Bromonaphthalene	75		65		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

METALS

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614
Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-13
Client ID: BFT-A
Sample Location: S. BOSTON, MA
Date Collected: 06/14/21 11:46
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.9		mg/kg	1.18	0.156	10	06/18/21 23:16	06/21/21 14:49	EPA 3050B	1,6020B	CD
Cadmium, Total	2.99		mg/kg	0.474	0.063	10	06/18/21 23:16	06/21/21 14:49	EPA 3050B	1,6020B	CD
Chromium, Total	222		mg/kg	4.74	1.11	10	06/18/21 23:16	06/21/21 14:49	EPA 3050B	1,6020B	CD
Copper, Total	399		mg/kg	4.74	0.460	10	06/18/21 23:16	06/21/21 14:49	EPA 3050B	1,6020B	CD
Lead, Total	217		mg/kg	1.42	0.346	10	06/18/21 23:16	06/21/21 14:49	EPA 3050B	1,6020B	CD
Mercury, Total	1.35		mg/kg	0.036	0.005	5	06/18/21 23:22	06/21/21 10:10	EPA 7474	1,7474	CD
Nickel, Total	54.0		mg/kg	2.37	0.633	10	06/18/21 23:16	06/21/21 14:49	EPA 3050B	1,6020B	CD
Zinc, Total	500		mg/kg	23.7	6.16	10	06/18/21 23:16	06/21/21 14:49	EPA 3050B	1,6020B	CD

Project Name: BLACK FALCON TERMINAL
Lab Number: L2132138
Project Number: GEI-BFT-210614
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-14
Client ID: BFT-B
Sample Location: S. BOSTON, MA
Date Collected: 06/14/21 10:45
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.3		mg/kg	1.11	0.147	10	06/18/21 23:16	06/21/21 14:59	EPA 3050B	1,6020B	CD
Cadmium, Total	1.07		mg/kg	0.445	0.059	10	06/18/21 23:16	06/21/21 14:59	EPA 3050B	1,6020B	CD
Chromium, Total	124		mg/kg	4.45	1.04	10	06/18/21 23:16	06/21/21 14:59	EPA 3050B	1,6020B	CD
Copper, Total	137		mg/kg	4.45	0.432	10	06/18/21 23:16	06/21/21 14:59	EPA 3050B	1,6020B	CD
Lead, Total	89.2		mg/kg	1.34	0.325	10	06/18/21 23:16	06/21/21 14:59	EPA 3050B	1,6020B	CD
Mercury, Total	1.54		mg/kg	0.033	0.004	5	06/18/21 23:22	06/21/21 10:17	EPA 7474	1,7474	CD
Nickel, Total	30.6		mg/kg	2.23	0.595	10	06/18/21 23:16	06/21/21 14:59	EPA 3050B	1,6020B	CD
Zinc, Total	192		mg/kg	22.3	5.79	10	06/18/21 23:16	06/21/21 14:59	EPA 3050B	1,6020B	CD

Project Name: BLACK FALCON TERMINAL
Lab Number: L2132138
Project Number: GEI-BFT-210614
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-15
Client ID: BFT-C
Sample Location: S. BOSTON, MA
Date Collected: 06/14/21 10:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Percent Solids: 45%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	15.2		mg/kg	1.08	0.143	10	06/18/21 23:16	06/21/21 15:04	EPA 3050B	1,6020B	CD
Cadmium, Total	0.560		mg/kg	0.432	0.057	10	06/18/21 23:16	06/21/21 15:04	EPA 3050B	1,6020B	CD
Chromium, Total	104		mg/kg	4.32	1.01	10	06/18/21 23:16	06/21/21 15:04	EPA 3050B	1,6020B	CD
Copper, Total	76.4		mg/kg	4.32	0.420	10	06/18/21 23:16	06/21/21 15:04	EPA 3050B	1,6020B	CD
Lead, Total	86.5		mg/kg	1.30	0.316	10	06/18/21 23:16	06/21/21 15:04	EPA 3050B	1,6020B	CD
Mercury, Total	0.900		mg/kg	0.031	0.004	5	06/18/21 23:22	06/21/21 10:24	EPA 7474	1,7474	CD
Nickel, Total	28.3		mg/kg	2.16	0.578	10	06/18/21 23:16	06/21/21 15:04	EPA 3050B	1,6020B	CD
Zinc, Total	164		mg/kg	21.6	5.62	10	06/18/21 23:16	06/21/21 15:04	EPA 3050B	1,6020B	CD

Project Name: BLACK FALCON TERMINAL
Lab Number: L2132138
Project Number: GEI-BFT-210614
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-16
Client ID: BFT-D
Sample Location: S. BOSTON, MA
Date Collected: 06/14/21 11:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.4		mg/kg	1.10	0.145	10	06/18/21 23:16	06/21/21 15:08	EPA 3050B	1,6020B	CD
Cadmium, Total	1.50		mg/kg	0.439	0.058	10	06/18/21 23:16	06/21/21 15:08	EPA 3050B	1,6020B	CD
Chromium, Total	139		mg/kg	4.39	1.03	10	06/18/21 23:16	06/21/21 15:08	EPA 3050B	1,6020B	CD
Copper, Total	143		mg/kg	4.39	0.426	10	06/18/21 23:16	06/21/21 15:08	EPA 3050B	1,6020B	CD
Lead, Total	102		mg/kg	1.32	0.320	10	06/18/21 23:16	06/21/21 15:08	EPA 3050B	1,6020B	CD
Mercury, Total	0.824		mg/kg	0.034	0.004	5	06/18/21 23:22	06/21/21 10:27	EPA 7474	1,7474	CD
Nickel, Total	31.5		mg/kg	2.20	0.587	10	06/18/21 23:16	06/21/21 15:08	EPA 3050B	1,6020B	CD
Zinc, Total	207		mg/kg	22.0	5.71	10	06/18/21 23:16	06/21/21 15:08	EPA 3050B	1,6020B	CD

Project Name: BLACK FALCON TERMINAL
Lab Number: L2132138
Project Number: GEI-BFT-210614
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-17
Client ID: BFT-E
Sample Location: S. BOSTON, MA
Date Collected: 06/14/21 12:21
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Percent Solids: 42%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.9		mg/kg	1.20	0.158	10	06/18/21 23:16	06/21/21 15:13	EPA 3050B	1,6020B	CD
Cadmium, Total	0.857		mg/kg	0.479	0.063	10	06/18/21 23:16	06/21/21 15:13	EPA 3050B	1,6020B	CD
Chromium, Total	115		mg/kg	4.79	1.12	10	06/18/21 23:16	06/21/21 15:13	EPA 3050B	1,6020B	CD
Copper, Total	184		mg/kg	4.79	0.465	10	06/18/21 23:16	06/21/21 15:13	EPA 3050B	1,6020B	CD
Lead, Total	99.6		mg/kg	1.44	0.350	10	06/18/21 23:16	06/21/21 15:13	EPA 3050B	1,6020B	CD
Mercury, Total	0.578		mg/kg	0.032	0.004	5	06/18/21 23:22	06/21/21 10:30	EPA 7474	1,7474	CD
Nickel, Total	33.3		mg/kg	2.40	0.640	10	06/18/21 23:16	06/21/21 15:13	EPA 3050B	1,6020B	CD
Zinc, Total	232		mg/kg	24.0	6.23	10	06/18/21 23:16	06/21/21 15:13	EPA 3050B	1,6020B	CD

Project Name: BLACK FALCON TERMINAL
Lab Number: L2132138
Project Number: GEI-BFT-210614
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-18
Client ID: BFT-F
Sample Location: S. BOSTON, MA
Date Collected: 06/14/21 13:14
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	12.0		mg/kg	1.15	0.152	10	06/18/21 23:16	06/21/21 15:18	EPA 3050B	1,6020B	CD
Cadmium, Total	0.372	J	mg/kg	0.461	0.061	10	06/18/21 23:16	06/21/21 15:18	EPA 3050B	1,6020B	CD
Chromium, Total	79.7		mg/kg	4.61	1.08	10	06/18/21 23:16	06/21/21 15:18	EPA 3050B	1,6020B	CD
Copper, Total	92.0		mg/kg	4.61	0.447	10	06/18/21 23:16	06/21/21 15:18	EPA 3050B	1,6020B	CD
Lead, Total	62.6		mg/kg	1.38	0.336	10	06/18/21 23:16	06/21/21 15:18	EPA 3050B	1,6020B	CD
Mercury, Total	0.333		mg/kg	0.031	0.004	5	06/18/21 23:22	06/21/21 10:33	EPA 7474	1,7474	CD
Nickel, Total	26.0		mg/kg	2.30	0.615	10	06/18/21 23:16	06/21/21 15:18	EPA 3050B	1,6020B	CD
Zinc, Total	146		mg/kg	23.0	5.99	10	06/18/21 23:16	06/21/21 15:18	EPA 3050B	1,6020B	CD

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-18 Batch: WG1514079-1										
Arsenic, Total	ND		mg/kg	0.500	0.066	10	06/18/21 23:16	06/21/21 12:46	1,6020B	CD
Cadmium, Total	ND		mg/kg	0.200	0.026	10	06/18/21 23:16	06/21/21 12:46	1,6020B	CD
Chromium, Total	ND		mg/kg	2.00	0.468	10	06/18/21 23:16	06/21/21 12:46	1,6020B	CD
Copper, Total	ND		mg/kg	2.00	0.194	10	06/18/21 23:16	06/21/21 12:46	1,6020B	CD
Lead, Total	ND		mg/kg	0.600	0.146	10	06/18/21 23:16	06/21/21 12:46	1,6020B	CD
Nickel, Total	ND		mg/kg	1.00	0.267	10	06/18/21 23:16	06/21/21 12:46	1,6020B	CD
Zinc, Total	ND		mg/kg	10.0	2.60	10	06/18/21 23:16	06/21/21 12:46	1,6020B	CD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-18 Batch: WG1514080-1										
Mercury, Total	ND		mg/kg	0.013	0.002	5	06/18/21 23:22	06/21/21 10:03	1,7474	CD

Prep Information

Digestion Method: EPA 7474

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-18 Batch: WG1514079-2 SRM Lot Number: D109-540								
Arsenic, Total	95		-		70-130	-		20
Cadmium, Total	97		-		75-125	-		20
Chromium, Total	84		-		70-130	-		20
Copper, Total	91		-		75-125	-		20
Lead, Total	92		-		72-128	-		20
Nickel, Total	93		-		70-130	-		20
Zinc, Total	92		-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 13-18 Batch: WG1514080-2 SRM Lot Number: D109-540								
Mercury, Total	103		-		60-140	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1514079-3 QC Sample: L2132138-13 Client ID: BFT-A												
Arsenic, Total	14.9	23.4	38.4	100		-	-		75-125	-		20
Cadmium, Total	2.99	9.97	13.5	105		-	-		75-125	-		20
Chromium, Total	222	39.1	264	107		-	-		75-125	-		20
Copper, Total	399	48.9	432	**68**	Q	-	-		75-125	-		20
Lead, Total	217	99.7	307	90		-	-		75-125	-		20
Nickel, Total	54.0	97.7	133	81		-	-		75-125	-		20
Zinc, Total	500	97.7	547	**48**	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1514080-3 QC Sample: L2132138-13 Client ID: BFT-A												
Mercury, Total	1.35	1.67	2.91	93		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1514079-4 QC Sample: L2132138-13 Client ID: BFT-A						
Arsenic, Total	14.9	15.0	mg/kg	1		20
Cadmium, Total	2.99	3.15	mg/kg	5		20
Chromium, Total	222	234	mg/kg	5		20
Copper, Total	399	408	mg/kg	2		20
Lead, Total	217	274	mg/kg	**23**	Q	20
Nickel, Total	54.0	68.9	mg/kg	**24**	Q	20
Zinc, Total	500	690	mg/kg	**32**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1514080-4 QC Sample: L2132138-13 Client ID: BFT-A						
Mercury, Total	1.35	1.39	mg/kg	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-01
Client ID: BFT-1
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:22
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	39.7		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-02
Client ID: BFT-2
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:45
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	39.7		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-03
Client ID: BFT-3
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:30
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	47.1		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-04
Client ID: BFT-4
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	52.8		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-05
Client ID: BFT-5
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 09:25
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	43.1		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-06
Client ID: BFT-6
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	44.0		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-07
Client ID: BFT-7
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:40
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	40.8		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-08
Client ID: BFT-8
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:46
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	42.5		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-09
Client ID: BFT-9
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:04
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	35.6		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-10
Client ID: BFT-10
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:21
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	43.6		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-11
Client ID: BFT-11
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:51
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	39.4		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-12
Client ID: BFT-12
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 13:14
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	40.8		%	0.100	NA	1	-	06/15/21 21:20	121,2540G	TR

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-13
Client ID: BFT-A
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:46
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.82		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Rep2)	3.20		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Average)	3.51		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Gravel	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Gravel	26.1		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Sand	19.0		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Medium Sand	11.9		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Sand	6.70		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Total Fines	36.3		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
General Chemistry - Mansfield Lab										
Solids, Total	40.8		%	0.100	0.100	1	-	06/16/21 10:32	121,2540G	NG

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-14
Client ID: BFT-B
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:45
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.66		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Rep2)	2.29		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Average)	2.47		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Gravel	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Gravel	14.0		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Sand	8.30		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Medium Sand	7.60		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Sand	11.2		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Total Fines	58.9		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
General Chemistry - Mansfield Lab										
Solids, Total	42.7		%	0.100	0.100	1	-	06/16/21 10:32	121,2540G	NG

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-15
Client ID: BFT-C
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 10:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.44		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Rep2)	2.14		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Average)	2.29		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Gravel	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Gravel	0.500		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Sand	2.20		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Medium Sand	3.80		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Sand	11.7		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Total Fines	81.8		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
General Chemistry - Mansfield Lab										
Solids, Total	44.5		%	0.100	0.100	1	-	06/16/21 10:32	121,2540G	NG

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-16
Client ID: BFT-D
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 11:00
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.35		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Rep2)	2.34		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Average)	2.34		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Gravel	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Gravel	6.10		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Sand	10.2		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Medium Sand	10.4		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Sand	11.7		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Total Fines	61.6		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
General Chemistry - Mansfield Lab										
Solids, Total	43.2		%	0.100	0.100	1	-	06/16/21 10:32	121,2540G	NG

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-17
Client ID: BFT-E
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 12:21
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.23		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Rep2)	2.19		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Average)	2.21		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Gravel	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Gravel	13.5		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Sand	19.5		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Medium Sand	15.2		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Sand	9.30		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Total Fines	42.5		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
General Chemistry - Mansfield Lab										
Solids, Total	41.6		%	0.100	0.100	1	-	06/16/21 10:32	121,2540G	NG

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

SAMPLE RESULTS

Lab ID: L2132138-18
Client ID: BFT-F
Sample Location: S. BOSTON, MA

Date Collected: 06/14/21 13:14
Date Received: 06/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.60		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Rep2)	2.07		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Average)	2.33		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Gravel	ND		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Gravel	8.70		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Coarse Sand	16.8		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Medium Sand	17.9		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Fine Sand	14.1		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
% Total Fines	42.5		%	0.100	NA	1	-	06/17/21 13:20	12,D6913/D7928	DR
General Chemistry - Mansfield Lab										
Solids, Total	42.9		%	0.100	0.100	1	-	06/16/21 10:32	121,2540G	NG

Project Name: BLACK FALCON TERMINAL **Lab Number:** L2132138

Project Number: GEI-BFT-210614 **Report Date:** 06/24/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 13-18 Batch: WG1512805-1										
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM
Total Organic Carbon (Average)	ND		%	0.010	0.010	1	-	06/18/21 10:40	1,9060A	SM

Lab Control Sample Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL

Project Number: GEI-BFT-210614

Lab Number: L2132138

Report Date: 06/24/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 13-18 Batch: WG1512805-2								
Total Organic Carbon (Rep1)	83		-		75-125	-		25
Total Organic Carbon (Rep2)	92		-		75-125	-		25
Total Organic Carbon (Average)	87		-		75-125	-		25

Matrix Spike Analysis
Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1512805-4 QC Sample: L2132138-13 Client ID: BFT-A												
Total Organic Carbon (Rep1)	3.82	1.28	3.66	**0**	Q	-	-		75-125	-		25
Total Organic Carbon (Rep2)	3.20	1.76	5.45	**127**	Q	-	-		75-125	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1512543-1 QC Sample: L2132417-01 Client ID: DUP Sample						
Solids, Total	92.2	92.9	%	1		20
General Chemistry - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1512775-1 QC Sample: L2132138-13 Client ID: BFT-A						
Solids, Total	40.8	39.5	%	3		10
Total Organic Carbon - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1512805-3 QC Sample: L2132138-13 Client ID: BFT-A						
Total Organic Carbon (Rep1)	3.82	3.16	%	19		25
Total Organic Carbon (Rep2)	3.20	3.13	%	2		25
Total Organic Carbon (Average)	3.51	3.15	%	11		25
Grain Size Analysis - Mansfield Lab Associated sample(s): 13-18 QC Batch ID: WG1513473-1 QC Sample: L2132138-18 Client ID: BFT-F						
Cobbles	ND	ND	%	NC		20
% Coarse Gravel	ND	ND	%	NC		20
% Fine Gravel	8.70	11.8	%	**30**	Q	20
% Coarse Sand	16.8	18.2	%	8		20
% Medium Sand	17.9	17.0	%	5		20
% Fine Sand	14.1	13.4	%	5		20
% Total Fines	42.5	39.6	%	7		20

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2132138-01A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-01B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-01C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-01D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-02A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-02B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-02C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-02D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-03A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-03B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-03C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-03D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-04A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-04B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-04C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-04D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-05A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-05B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-05C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-05D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-06A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-06B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-06C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2132138-06D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-07A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-07B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-07C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-07D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-08A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-08B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-08C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-08D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-09A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-09B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-09C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-09D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-10A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-10B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-10C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-10D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-11A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-11B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-11C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-11D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-12A	Vial MeOH preserved	A	NA		4.4	Y	Absent		8260HLW(14)
L2132138-12B	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-12C	Vial water preserved	A	NA		4.4	Y	Absent	15-JUN-21 20:38	8260HLW(14)
L2132138-12D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L2132138-13A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		EPH-20(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2132138-13B	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		A2-PB-6020T(180),A2-ZN-6020T(180),A2-NI-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-CU-6020T(180)
L2132138-13C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		A2-TOC-9060-2REPS(28),A2-PAH/PCBCONG(14)
L2132138-13D	Plastic 8oz unpreserved for Grain Size	A	NA		4.4	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-CGRAVEL(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()
L2132138-13E	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		A2-TS(7)
L2132138-14A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		EPH-20(14)
L2132138-14B	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		A2-PB-6020T(180),A2-ZN-6020T(180),A2-NI-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-CU-6020T(180)
L2132138-14C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		A2-TOC-9060-2REPS(28),A2-PAH/PCBCONG(14)
L2132138-14D	Plastic 8oz unpreserved for Grain Size	A	NA		4.4	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-CGRAVEL(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-FGRAVEL(),A2-HYDRO-COBBLES()
L2132138-14E	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		A2-TS(7)
L2132138-15A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		EPH-20(14)
L2132138-15B	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		A2-PB-6020T(180),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-CU-6020T(180)
L2132138-15C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		A2-TOC-9060-2REPS(28),A2-PAH/PCBCONG(14)
L2132138-15D	Plastic 8oz unpreserved for Grain Size	A	NA		4.4	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-CGRAVEL(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-FGRAVEL(),A2-HYDRO-COBBLES()
L2132138-15E	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		A2-TS(7)
L2132138-16A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		EPH-20(14)
L2132138-16B	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		A2-PB-6020T(180),A2-ZN-6020T(180),A2-NI-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-AS-6020T(180),A2-HGPREP-AF(28),A2-CD-6020T(180),A2-PREP-3050:2T(180),A2-CU-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: BLACK FALCON TERMINAL
Project Number: GEI-BFT-210614

Lab Number: L2132138
Report Date: 06/24/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2132138-16C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		A2-TOC-9060-2REPS(28),A2-PAH/PCBCONG(14)
L2132138-16D	Plastic 8oz unpreserved for Grain Size	A	NA		4.4	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-CGRAVEL(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()
L2132138-16E	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		A2-TS(7)
L2132138-17A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		EPH-20(14)
L2132138-17B	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		A2-PB-6020T(180),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-CU-6020T(180)
L2132138-17C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		A2-TOC-9060-2REPS(28),A2-PAH/PCBCONG(14)
L2132138-17D	Plastic 8oz unpreserved for Grain Size	A	NA		4.4	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-CGRAVEL(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()
L2132138-17E	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		A2-TS(7)
L2132138-18A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		EPH-20(14)
L2132138-18B	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		A2-PB-6020T(180),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-AS-6020T(180),A2-HGPREP-AF(28),A2-CD-6020T(180),A2-PREP-3050:2T(180),A2-CU-6020T(180)
L2132138-18C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		A2-TOC-9060-2REPS(28),A2-PAH/PCBCONG(14)
L2132138-18D	Plastic 8oz unpreserved for Grain Size	A	NA		4.4	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-CGRAVEL(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-FGRAVEL(),A2-HYDRO-COBBLES()
L2132138-18E	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		A2-TS(7)

*Values in parentheses indicate holding time in days

Project Name:	BLACK FALCON TERMINAL	**Lab Number:**	L2132138
Project Number:	GEI-BFT-210614	**Report Date:**	06/24/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BLACK FALCON TERMINAL	**Lab Number:**	L2132138
Project Number:	GEI-BFT-210614	**Report Date:**	06/24/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BLACK FALCON TERMINAL	**Lab Number:**	L2132138
Project Number:	GEI-BFT-210614	**Report Date:**	06/24/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BLACK FALCON TERMINAL	**Lab Number:**	L2132138
Project Number:	GEI-BFT-210614	**Report Date:**	06/24/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with NOAA Technical Memorandum NMFS-NWFSC-59: Extraction, Cleanup and GC/MS Analysis of Sediments and Tissues for Organic Contaminants, March 2004 and the Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680, EPA 01A0005295, November 1985.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.

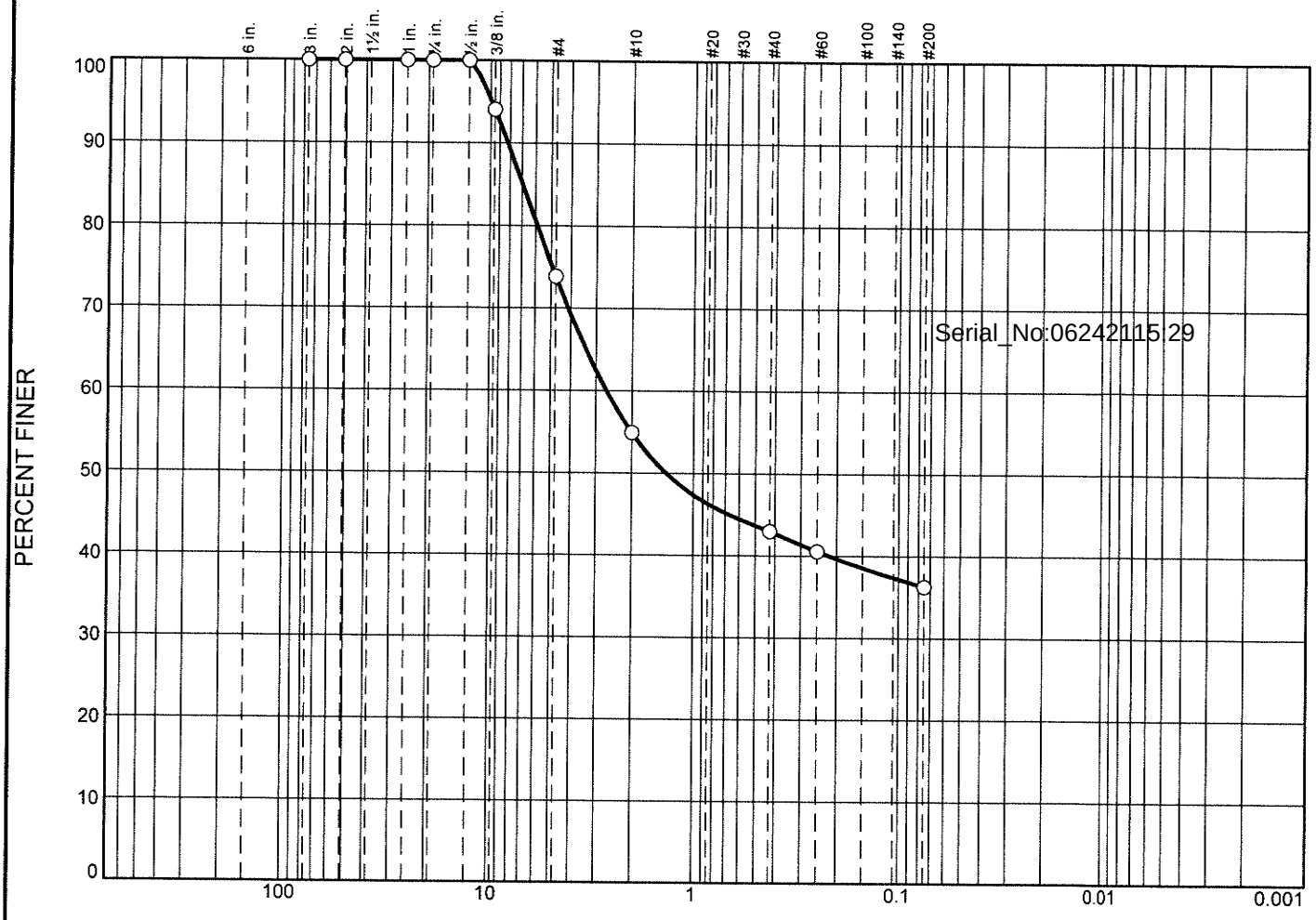
LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ASTM D6913/D7928
GRAIN SIZE ANALYSIS

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	26.1	19.0	11.9	6.7	36.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.9410	2.6652	1.3574					

	Material Description	USCS	AASHTO
○			

Project No. **Client:**

Project:

○ **Source of Sample:** BFT-A **Sample Number:** L2132138-13

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2021

Location: BFT-A

Sample Number: L2132138-13

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 66.99
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
66.99	0.00	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		3/4"	0.00	0.00	100.0
		1/2"	0.00	0.00	100.0
		3/8"	3.98	0.00	94.1
		#4	13.53	0.00	73.9
		#10	12.69	0.00	54.9
		#40	8.00	0.00	43.0
		#60	1.61	0.00	40.6
		#200	2.88	0.00	36.3

Serial_No:06242115:29

Fractional Components

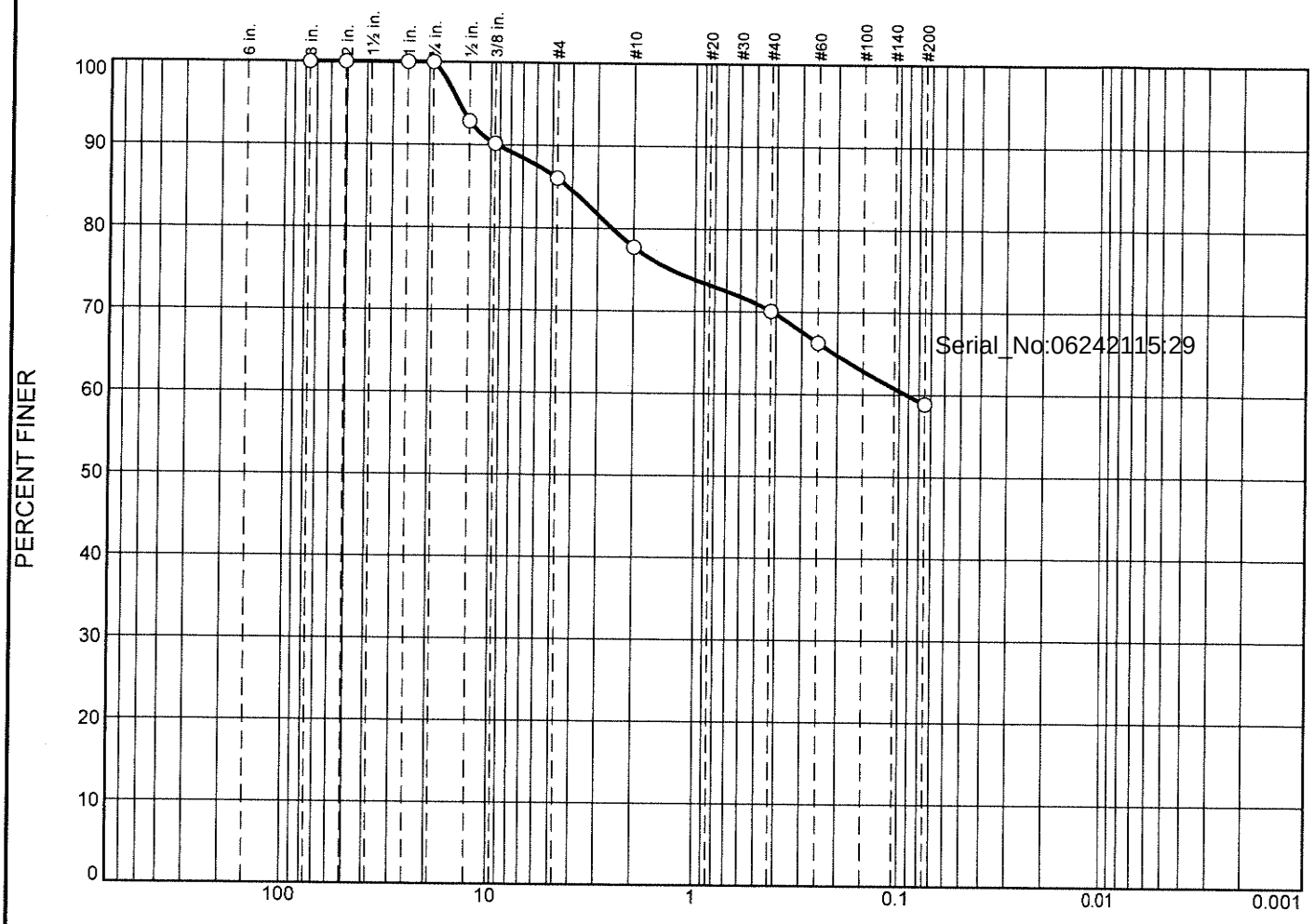
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	26.1	26.1	19.0	11.9	6.7	37.6			36.3

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
					0.2182	1.3574	2.6652	5.8708	6.9410	8.2305	9.8708

Fineness Modulus
3.01

Alpha Analytical

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	14.0	8.3	7.6	11.2	58.9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.2034	0.0920						

Material Description	USCS	AASHTO
○		

Project No. **Client:**

Project:

○ **Source of Sample:** BFT-B **Sample Number:** L2132138-14

Alpha Analytical

Mansfield, MA

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2021

Location: BFT-B

Sample Number: L2132138-14

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 73.97
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
73.97	0.00	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		3/4"	0.00	0.00	100.0
		1/2"	5.27	0.00	92.9
		3/8"	2.01	0.00	90.2
		#4	3.05	0.00	86.0
		#10	6.13	0.00	77.7
		#40	5.67	0.00	70.1
		#60	2.82	0.00	66.3
		#200	5.48	0.00	58.9

Serial_No:06242115:29

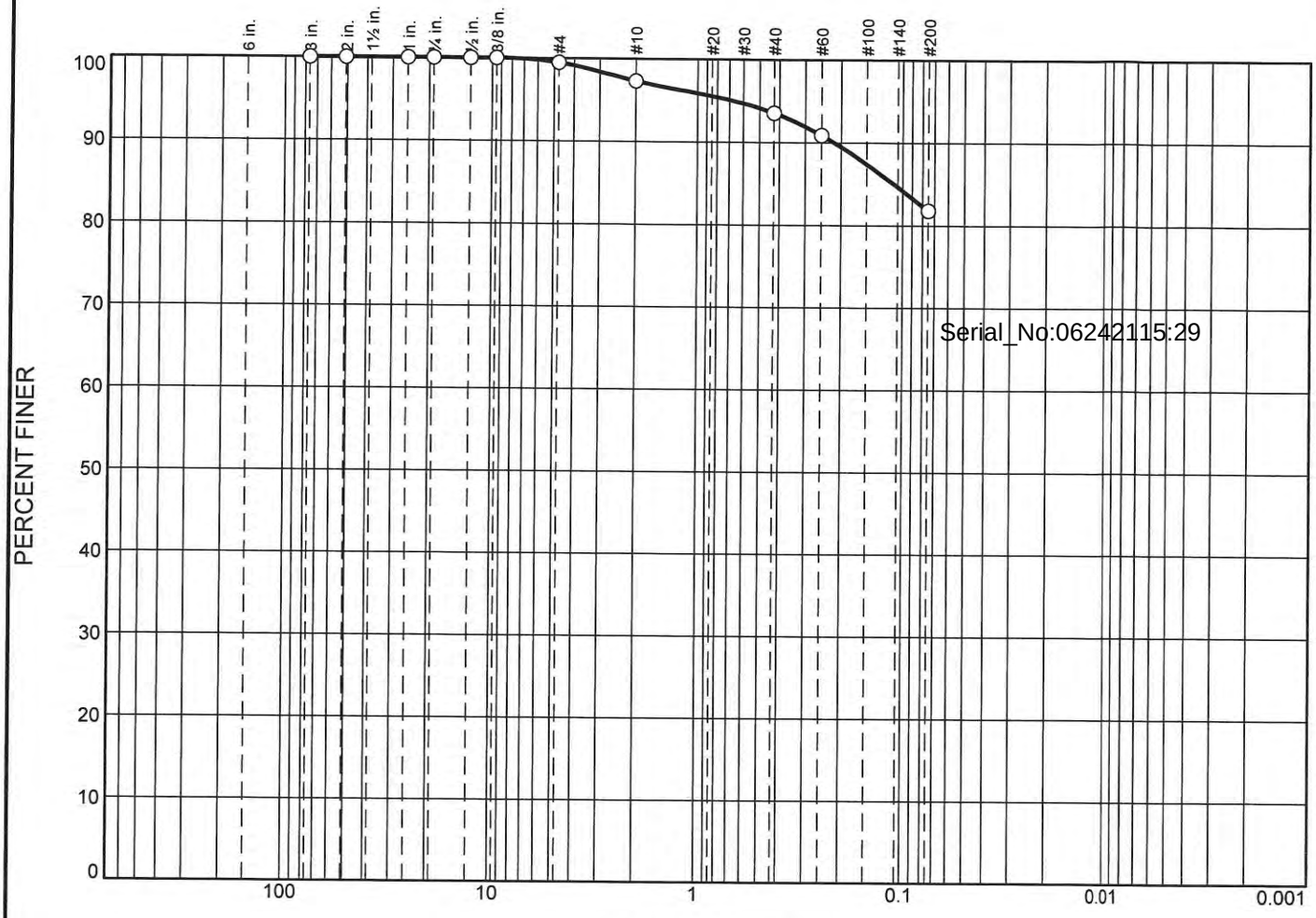
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	14.0	14.0	8.3	7.6	11.2	27.1			58.9

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
							0.0920	2.5514	4.2034	9.2708	14.2505

Fineness Modulus
1.68

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.5	2.2	3.8	11.7	81.8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1107							

	Material Description	USCS	AASHTO
○			

Project No. **Client:**

Project:

○ **Source of Sample:** BFT-C **Sample Number:** L2132138-15

Alpha Analytical

Mansfield, MA

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2021

Location: BFT-C

Sample Number: L2132138-15

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 80.87
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
80.87	0.00	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		3/4"	0.00	0.00	100.0
		1/2"	0.00	0.00	100.0
		3/8"	0.00	0.00	100.0
		#4	0.42	0.00	99.5
		#10	1.75	0.00	97.3
		#40	3.05	0.00	93.5
		#60	2.14	0.00	90.9
		#200	7.37	0.00	81.8

Serial_No:06242115:29

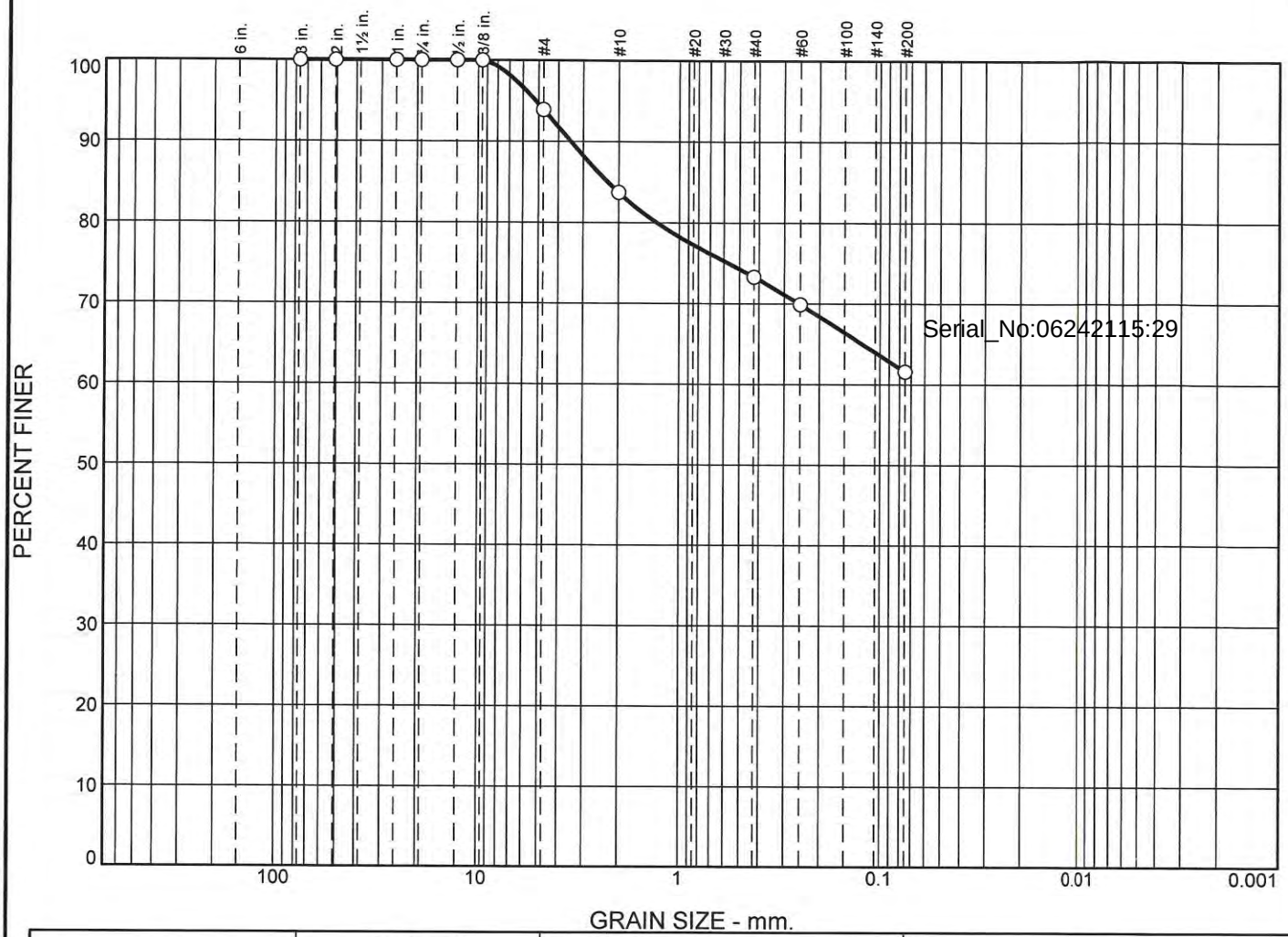
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.5	0.5	2.2	3.8	11.7	17.7			81.8

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
									0.1107	0.2167	0.6713

Fineness Modulus
0.33

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	6.1	10.2	10.4	11.7	61.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.2654							

Material Description	USCS	AASHTO
○		

Project No. **Client:**

Project:

○ **Source of Sample:** BFT-D **Sample Number:** L2132138-16

Alpha Analytical

Mansfield, MA

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2021

Location: BFT-D

Sample Number: L2132138-16

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 70.76
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
70.76	0.00	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		3/4"	0.00	0.00	100.0
		1/2"	0.00	0.00	100.0
		3/8"	0.00	0.00	100.0
		#4	4.30	0.00	93.9
		#10	7.23	0.00	83.7
		#40	7.35	0.00	73.3
		#60	2.42	0.00	69.9
		#200	5.88	0.00	61.6

Serial_No:06242115:29

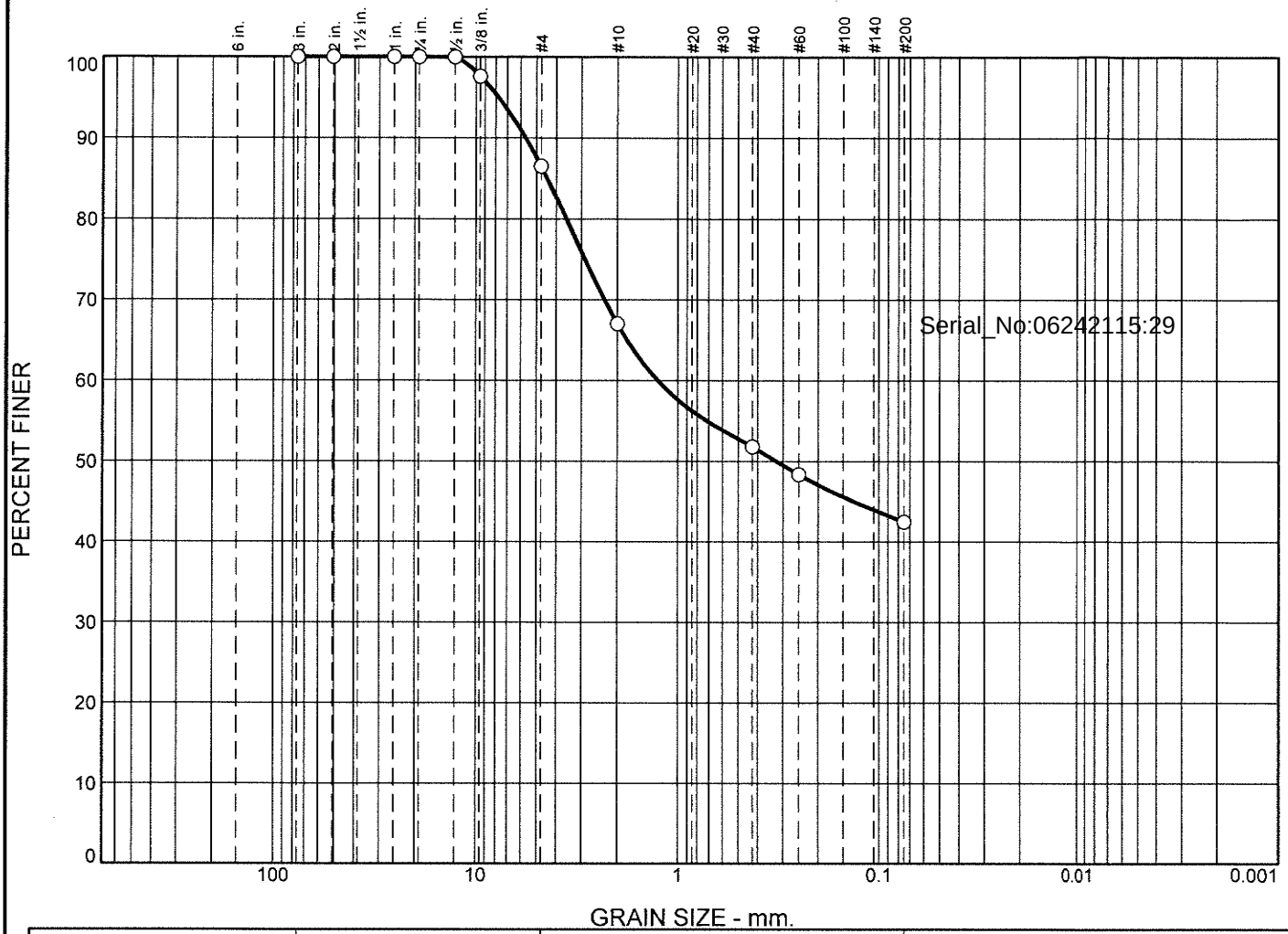
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	6.1	6.1	10.2	10.4	11.7	32.3			61.6

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								1.2953	2.2654	3.4656	5.1893

Fineness Modulus
1.28

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	13.5	19.5	15.2	9.3	42.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.4286	1.2566	0.3223					

	Material Description	USCS	AASHTO
○			

Project No. **Client:**

Project:

○ **Source of Sample:** BFT-E **Sample Number:** L2132138-17

Alpha Analytical

Mansfield, MA

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2021

Location: BFT-E

Sample Number: L2132138-17

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 66.98
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
66.98	0.00	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		3/4"	0.00	0.00	100.0
		1/2"	0.00	0.00	100.0
		3/8"	1.59	0.00	97.6
		#4	7.45	0.00	86.5
		#10	13.04	0.00	67.0
		#40	10.21	0.00	51.8
		#60	2.29	0.00	48.4
		#200	3.95	0.00	42.5

Serial_No:06242115:29

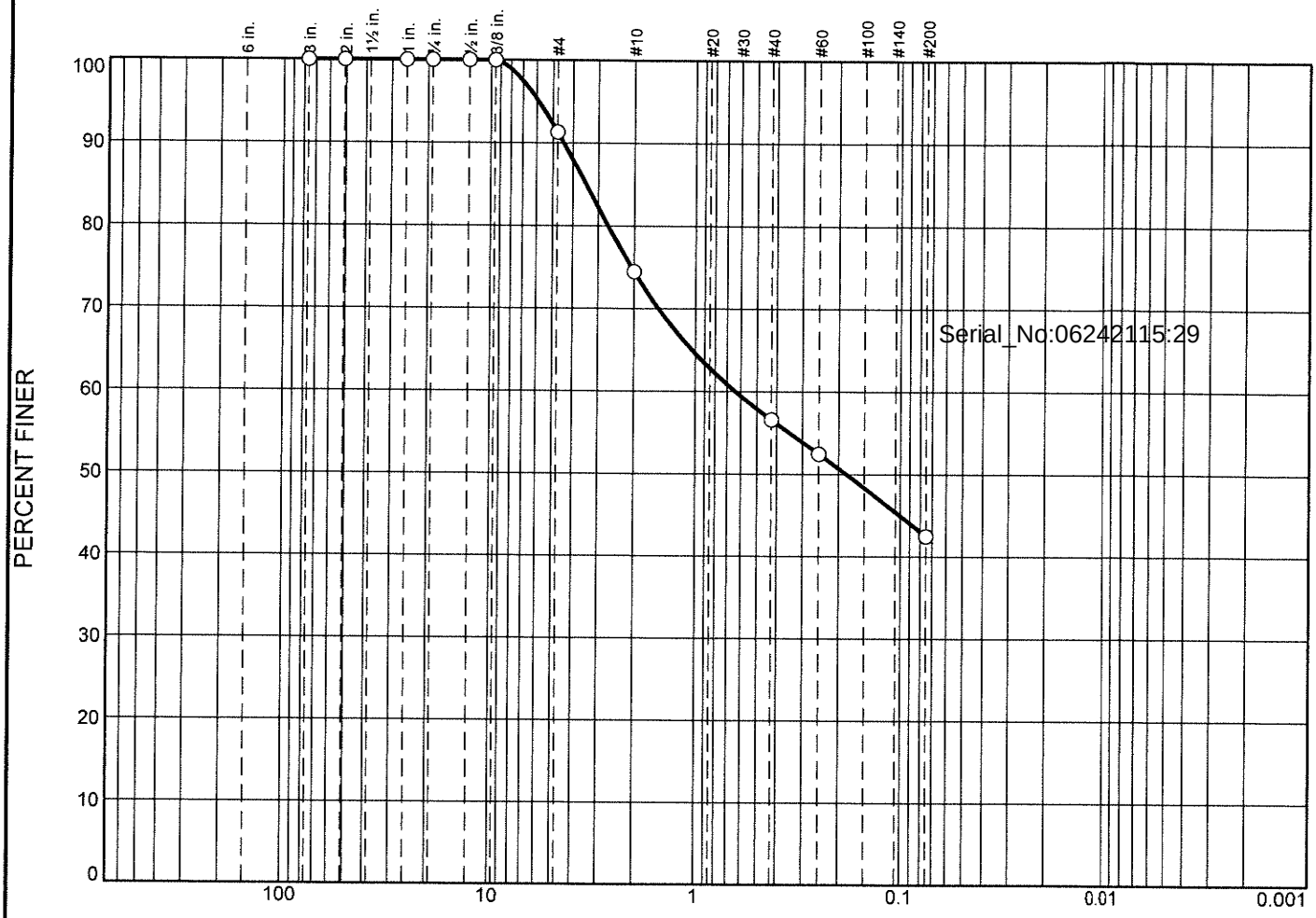
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	13.5	13.5	19.5	15.2	9.3	44.0			42.5

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
						0.3223	1.2566	3.5612	4.4286	5.6751	7.7341

Fineness Modulus
2.37

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	8.7	16.8	17.9	14.1	42.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			3.4414	0.6366	0.1836					

Material Description	USCS	AASHTO
○		

Project No. **Client:**

Project:

○ **Source of Sample:** BFT-F **Sample Number:** L2132138-18

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2021

Location: BFT-F

Sample Number: L2132138-18

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 39.72
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
39.72	0.00	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		3/4"	0.00	0.00	100.0
		1/2"	0.00	0.00	100.0
		3/8"	0.00	0.00	100.0
		#4	3.45	0.00	91.3
		#10	6.69	0.00	74.5
		#40	7.10	0.00	56.6
		#60	1.64	0.00	52.5
		#200	3.96	0.00	42.5

Serial_No:06242115:29

Fractional Components

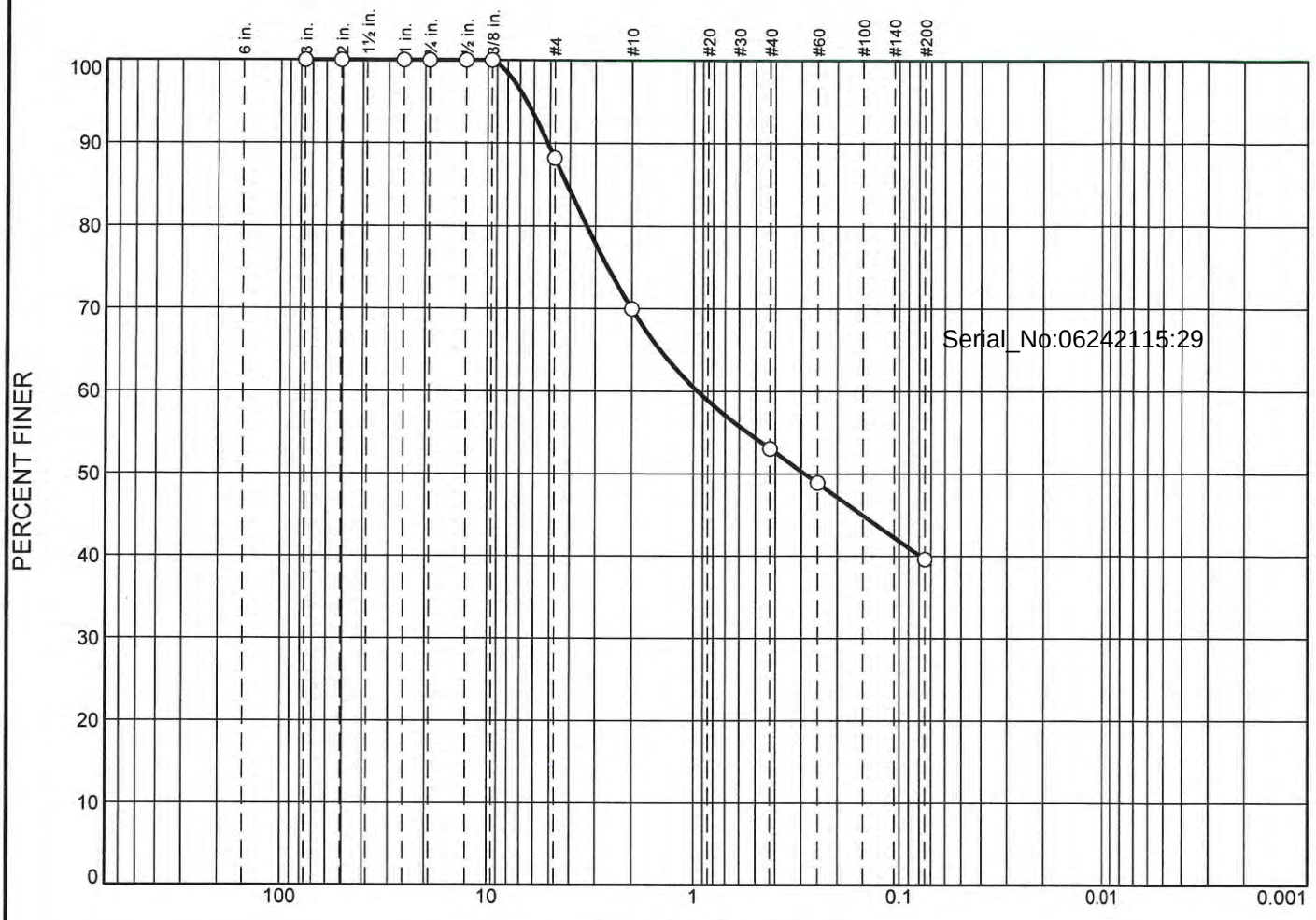
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	8.7	8.7	16.8	17.9	14.1	48.8			42.5

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
						0.1836	0.6366	2.6830	3.4414	4.4310	5.8670

Fineness Modulus
2.03

Alpha Analytical

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	11.8	18.2	17.0	13.4	39.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.1332	0.9533	0.2884					

Material Description	USCS	AASHTO
○		

Project No. **Client:**

Project:

○ **Source of Sample:** BFT-F **Sample Number:** WG1513473-1

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2021

Location: BFT-F

Sample Number: WG1513473-1

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 38.46
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
38.46	0.00	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		3/4"	0.00	0.00	100.0
		1/2"	0.00	0.00	100.0
		3/8"	0.00	0.00	100.0
		#4	4.54	0.00	88.2
		#10	7.01	0.00	70.0
		#40	6.51	0.00	53.0
		#60	1.60	0.00	48.9
		#200	3.56	0.00	39.6

Serial_No:06242115:29

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	11.8	11.8	18.2	17.0	13.4	48.6			39.6

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
					0.0788	0.2884	0.9533	3.3078	4.1332	5.1376	6.4812

Fineness Modulus
2.25

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

Date Rec'd in Lab: 6/14/21

ALPHA Job #: L2132138

ALPHA
8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: STEELE ASSOCIATES

Address: 94 GIFFORD ST.
FALMOUTH, MA 02540

Phone: 508 540-0001

Email: eci@steeleassociates.net

Project Information

Project Name: BLACK FALCON TERMINAL

Project Location: S. BOSTON, MA

Project #: GEI-BFT-210614

Project Manager: BRIAN SOBELE

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods

☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)

☐ Yes ☐ No NPDES RGP

☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2

SVOC: ☐ ABN ☐ PAH

METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15

METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13

EPH: ☐ Ranges & Targets ☐ Ranges Only

VPH: ☐ Ranges & Targets ☐ Ranges Only

☐ PCB ☐ PEST

TPH: ☐ Quant Only ☐ Fingerprint

GRAIN SIZE

PAH/PCB

TOC

TS SM 2540

SAMPLE INFO

Filtration
☐ Field
☐ Lab to do

Preservation
☐ Lab to do

Sample Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials
32138-01	BFT-1	6/14/21	1122		BMS
02	BFT-2		1045		
03	BFT-3		1030		
04	BFT-4		1000		
05	BFT-5		0925		
06	BFT-6		1100		
07	BFT-7		1040		
08	BFT-8		1146		
09	BFT-9		1204		
10	BFT-10		1221		

Container Type	
Preservative	

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_3$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	6/14/21 1730		6/14/21 1730
	6/14/21 1830		6/14/21 1832
Joseph E. Bizzotto Jr.	6/14/21 2022		6/14/21 2000
			6/14/21 2022

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd In Lab: 6/14/21

ALPHA Job #: L2132138

ALPHA
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: STEELE ASSOC.

Address:

Phone: 508 540-0001

Email:

Project Information

Project Name: BLACK FALCON TERM.

Project Location: S. BOSTON

Project #: GEI-BFT-210614

Project Manager: E-STEELE

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

Report Information - Data Deliverables

☐ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program ____ Criteria ____

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2 — 5035 H&L
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 — TAL
METALS: ☐ RCRA5 ☐ RCRA8 ☐ MCP 14 ☐ RCP 15
EPH: ☐ Ranges & Targets ☐ Ranges Only ☐ PP13 — CARBON RANGE
VPH: ☐ Ranges & Targets ☐ Ranges Only
☐ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint
GRAIN SIZE
EPH CARBON
TOTAL HG
TS
A2 PREP. 3050 2T

SAMPLE INFO
Filtration ☐ Field ☐ Lab to do
Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC 5035 H&L	SVOC	METALS TAL	GRAIN SIZE	EPH CARBON	TOTAL HG	TS	A2 PREP. 3050 2T	Sample Comments	Total # Bottles
11	BFT-11	6/14/21	1257		EMS	↓	↓	↓							
12	BFT-12	↓	1314		↓				↓	↓	↓	↓	↓		
13	BFT-A	↓	1146		↓				↓	↓	↓	↓	↓		
14	BFT-B	↓	1045		↓				↓	↓	↓	↓	↓		
15	BFT-C	↓	1000		↓				↓	↓	↓	↓	↓		
16	BFT-D	↓	1100		↓				↓	↓	↓	↓	↓		
17	BFT-E	↓	1221		↓				↓	↓	↓	↓	↓		
18	BFT-F	↓	1314		↓				↓	↓	↓	↓	↓		

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/14/21 1530	[signature] AAL	6/14/21 1730
[signature]	6/14/21 1830	[signature]	6/14/21 1831
[signature]	6/14/21 2022	Joseph C. Bezaitis	6/14/21 2000
Joseph C. Bezaitis	6/14/21 2022	[signature]	6/14/21 2022

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

FORM NO: 01-01 (rev. 12-Mar-2012)

ATTACHMENT 5
ENVIRONMENTAL NOTIFICATION FORM CIRCULATION LIST

Black Falcon Pier Berths 1 and 2 Dredging
Environmental Notification Form Circulation List

Secretary Kathleen A. Theoharides
Executive Office of Energy and Environmental Affairs
Attn: MEPA Office
100 Cambridge Street, Suite 900
Boston, MA 02114
MEPA@mass.gov

Massachusetts Department of Environmental Protection
Commissioner's Office
One Winter Street
Boston, MA 02108
helena.boccadoro@mass.gov

Massachusetts Department of Environmental Protection
Northeastern Regional Office
Attn: MEPA Coordinator
205 Lowell Street
Wilmington, MA 01887
john.d.viola@mass.gov

Massachusetts Department of Transportation
Public/Private Development Unit
10 Park Plaza
Boston, MA 02116
MassDOTPPDU@dot.state.ma.us

Massachusetts Department of Transportation
District #6
Attn: MEPA Coordinator
185 Kneeland Street
Boston, MA 02111
michael.garrity@dot.state.ma.us

Massachusetts Historical Commission
The MA Archives Building
220 Morrissey Boulevard
Boston, MA 02125

Metropolitan Area Planning Council
60 Temple Place
Boston, MA 02111
aherbst@mapc.org

City of Boston
City Council
1 City Hall Square, Room 550
Boston, MA 02201-2043
city.council@boston.gov

Boston Planning and Development Agency/Economic Development and Industrial Corporation
1 City Hall Square, 9th Floor
Boston, MA 02201
richard.mcguinness@boston.gov
lawrence.mammoli@boston.gov

City of Boston
Boston Public Health Commission
1010 Massachusetts Avenue, 6th Floor
Boston, MA 02118
info@bphc.org

City of Boston
Boston Conservation Commission
1 City Hall Square, Room 709
Boston, MA 02201
cc@boston.gov

Coastal Zone Management
Attn: Project Review Coordinator
251 Causeway Street, Suite 800
Boston, MA 02114
robert.boeri@mass.gov
patrice.bordonaro@mass.gov

Division of Marine Fisheries (North Shore)
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
DMF.EnvReview-North@mass.gov

Massachusetts Water Resources Authority
Attn: MEPA Coordinator
100 First Avenue
Charlestown Navy Yard
Boston, MA 02129
katherine.ronan@mwra.com

City of Boston Environment Department
One City Hall Plaza, Room 805
Boston, MA 02201
carl.spector@boston.gov

Massachusetts Department of Environmental Protection
401 Water Quality Certification Program
1 Winter Street
Boston, MA 02108
david.w.wong@state.ma.us

Massachusetts Board of Underwater Archaeology
251 Causeway Street, Suite 800
Boston, MA 02114
david.s.robinson@mass.gov

Boston Pilots
256 Marginal Street, Building 11
East Boston, MA 02128-2800

Boston Ship Repair
32a Drydock Avenue
Boston, MA 02210
esnyder@nashiprepair.com

Coastal Cement Corporation
36 Drydock Ave #1
Boston, MA 02210
mgreto@gchi.com

The Davis Companies
88 Black Falcon Avenue, Suite 250
Boston, MA 02210
mayers@TheDavisCompanies.com

Boston Harbor Now
15 State St #1100
Boston, MA 02109
kabbott@bostonharbornow.org

Save the Harbor/Save the Bay
212 Northern Avenue, #304
Boston, MA 02210
mancini@savetheharbor.org

City Point Neighborhood Association
SouthBostonCPNA@gmail.com

Castle Island Association
P.O. Box 342
South Boston, MA 02127
Castleisland8@gmail.com

Fort Point Neighborhood Association
P.O. Box 52122
Boston, MA 02205
fpnaboston@gmail.com

City of Boston
Neighborhood Services
ATTN: Haley Dillon
1 City Hall Square, Room 805
Boston, MA 02201
Haley.Dillon@boston.gov

Massport Community Advisory Committee
c/o Law Office of Robert Allen, Jr., LLP
300 Washington Street
Brookline, MA 02445
dcarlonmcac@gmail.com

Boston Public Library
South Boston Branch
646 East Broadway
South Boston, MA 02127

The Honorable Nick Collins
MA State House
24 Beacon Street, Room 312-D
Boston, MA, 02133
Nick.Collins@masenate.gov

The Honorable David Biele
MA State House
24 Beacon Street, Room 26
Boston, MA, 02133
David.Biele@mahouse.gov

The Honorable Kim Janey
Mayor's Office
1 City Hall Square, Suite 550
Boston, MA 02201-2043
Kim.Janey@boston.gov

The Honorable Stephen Lynch
One Harbor Street, Suite 304
Boston, MA 02210

The Honorable Edward Markey
975 JFK Federal Building
15 New Sudbury Street
Boston, MA 02203

The Honorable Elizabeth Warren
2400 JFK Federal Building
15 New Sudbury Street
Boston, MA 02203

Attachment 6
List of Local and Federal Permits

Black Falcon Pier Berths 1 and 2 Dredging
Environmental Notification Form - List of Local and Federal Permits

Wetlands Order of Conditions (M.G.L.c. 131, s. 40)
Boston Conservation Commission

Department of the Army Permit (General Permit for Massachusetts - GP5)
U.S. Army Corps of Engineers