# Appendix G

# Preliminary Screening Evaluation

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## ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| µg/kg | microgram per kilogram |
| AOC | area of concern |
| AST | Aboveground Storage Tank |
| BaP | benzo(a)pyrene |
| bgs | below ground surface |
| BTV | background threshold value |
| CERCLA | Comprehensive Environmental Restoration, Compensation, and Liability Act |
| COPC | chemical of potential concern |
| COPEC | chemical of potential ecological concern |
| DoD | Department of Defense, United States |
| ft | foot or feet |
| FPH | Fuel Pump House |
| FS | Feasibility Study |
| FUDS | Formerly Used Defense Site |
| JV | Joint-Venture |
| LANL | Los Alamos National Laboratory |
| LNAPL | light non aqueous phase liquid |
| mg/kg | milligram per kilogram |
| NY | New York |
| NYCRR | New York Codes, Rules, and Regulations |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |
| ORNL | Oak Ridge National Laboratory |
| PAH | Polycyclic aromatic hydrocarbons |
| PCB | polychlorinated biphenyl |
| ppm | parts per million |
| RI | Remedial Investigation |

| | |
|---|---|
| SAP | Sampling and Analysis Plan |
| SVOC | semi-volatile organic compound |
| TEQ | toxic equivalence quotient |
| TOGS | Technical & Operational Guidance Series (NYSDEC) |
| UFP | Uniform Federal Policy |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |
| UST | underground storage tank |
| VOC | volatile organic compound |
| WDS | Waste Disposal System |

## EXECUTIVE SUMMARY

Camp Hero is a formerly used defense site (FUDS) undergoing a Remedial Investigation and Feasibility Study (RI/FS) under the Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA). A total of 47 areas of concern (AOCs) have been identified during previous investigations, which included Phase I and II RI field investigations. This preliminary screening evaluation was completed for the available RI dataset to (1) determine which AOCs require further assessment as part of the Phase III RI field investigation and (2) refine the list of parameters for sample collection during the Phase III RI field investigation with the intent of completing the RI phase of the CERCLA process.

This document summarizes the existing dataset used in the evaluation, establishes the selection of the preliminary screening values, including site-specific background threshold values (BTVs), and summarizes the results of the evaluation. To complete the preliminary screening evaluation, the maximum detected concentration for each analyte in surface and subsurface soil was compared to the most conservative applicable screening criteria and the site-specific BTVs. If no analytes at an AOC exceeded the screening criteria or BTVs, the AOC was identified for no further action (NFA) under the CERCLA process. If however, any analyte exceeded the screening criteria and also the BTVs, then that AOC was identified as requiring further assessment. In some cases, AOCs were also recommended for further assessment if field observations or measurements indicated evidence of a potential release.

Of the 47 AOCs identified at Camp Hero, NFA is warranted for 25 AOCs, and further assessment is recommended for 21 AOCs as part of the Phase III RI field investigation. The 47$^{th}$ AOC (Waste Disposal System or WSD) is comprised of 14 segments across the Camp Hero site. Of these segments, 8 warrant NFA, and 6 warrant further assessment.

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# 1.0 INTRODUCTION AND SITE BACKGROUND

Camp Hero is a formerly used defense site (FUDS) undergoing a Remedial Investigation and Feasibility Study (RI/FS) under the Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA). A total of 47 areas of concern (AOCs) have been identified during previous investigations, which included Phase I and II RI field investigations. This RI/FS program for Camp Hero is being conducted by AECOM in coordination with the United States Army Corps of Engineers (USACE), New England and New York Districts, as well as the Environmental and Munitions (EM) Center of Expertise (CX).

## 1.1 Preliminary Screening Evaluation Scope and Objectives

The primary objectives of the Camp Hero RI are to determine the nature and extent of potential releases and impacts in site media from former military operations, and to subsequently quantify whether there are unacceptable risks posed to human health or ecological receptors. This preliminary screening evaluation was completed for the available RI dataset to (1) determine which AOCs require further assessment as part of the Phase III RI field investigation and (2) refine the list of parameters for sample collection during the Phase III RI field investigation with the intent of completing the RI phase of the CERCLA process.

## 1.2 Site Location and History

Camp Hero State Park is located on the eastern tip of the south fork of Long Island, New York, approximately 5 miles east of the Village of Montauk. The park consists of 469 acres and is bound by Montauk Highway (Route 27) to the north, the Atlantic Ocean to the south, Montauk Point State Park to the east, and Camp Hero State Park's undeveloped sanctuary area to the west. The landscape includes wooded areas, freshwater wetlands, and seaside bluffs.

The park was initially established in early 1942 as a Coastal Defense Installation. Military development included a series of underground bunkers, gun batteries, barracks, mess halls, hospital facilities, a motor repair shop, a recreation facility, sentry boxes, water supply and sewage facilities, and a radar tower. The military operations continued after 1952, when the park was renamed the Montauk Air Force Station, and generally ended in 1980 when remaining military personnel were transferred off-base and the park was subsequently conveyed to New York State as "Camp Hero State Park" in 1984. In 2015 and 2016, a total of 47 potential AOCs were identified by the USACE for environmental investigation via the CERCLA process.

## 1.3 Compilation of the Dataset

A historical records review conducted as part of the Camp Hero RI identified 47 AOCs requiring environmental investigation. The AOCs included former waste disposal areas, former coal storage areas, abandoned drum locations, possible and former USTs, and a Motor Pool building, among

others. The existing dataset for the preliminary screening was collected over two sampling events at Camp Hero:

- ***Phase I Investigation (AECOM-Tidewater JV 2016).*** The primary objective of the Phase I investigation was to determine the presence or absence of contamination at the 47 Camp Hero AOCs. Phase I activities included collection of discrete, biased surface and subsurface soil samples for use in the preliminary screening evaluation and grab groundwater samples for use in refining the groundwater conceptual site model (CSM).
- ***Phase II Investigation (AECOM-Tidewater JV 2017).*** Phase II activities at the former Building 203 AOC included surface soil sample collection on discrete, unbiased grids within two sample units (SUs) to support the EPC calculation; discrete biased subsurface soil sampling within two SUs for use in preliminary screening; and groundwater sample collection from six newly-installed permanent monitoring wells to support the groundwater CSM.

Figure 1 provides the layout of Camp Hero, with the locations of surface and subsurface soil samples collected during the Phase I and II RI field investigations. These sampling locations provided the datasets for this preliminary screening evaluation. Surface soil samples were collected from 0 to 1 foot (ft) below ground surface (bgs) and subsurface soil samples were collected from 1 to 10 ft bgs.

## 2.0 SELECTION OF PRELIMINARY SCREENING VALUES

For the available Phase I and II RI field investigation datasets, the maximum detected concentration for each analyte in surface and subsurface soil was compared to the most conservative applicable screening criteria and the site-specific background threshold values (BTVs). If no analytes at an AOC exceeded the screening criteria or BTVs, the AOC was identified for no further action (NFA) under the CERCLA process. If however, any analyte exceeded the screening criteria and also the BTVs, then that AOC was identified as requiring further assessment. In some cases, AOCs were also recommended for further assessment if field observations or measurements indicated evidence of a potential release.

### 2.1 Selection of Human Health Screening Criteria for Soil

Preliminary human health screening values for surface and subsurface soil for all AOCs were based on the most conservative (lowest values) from the following sets of human health criteria:

- USEPA Regional Screening Levels for Residential Soil with a Target Hazard Quotient (THQ) of 0.1 (USEPA 2016), with updated PAH RSLs calculated from recently-released updated benzo[a]pyrene toxicity values (USEPA 2017).
- 6 NYCRR Part 375-1 Remedial Program Residential Soil Cleanup Objectives (SCOs), Table 6.8(b) (NYCRR 2015).

Additionally, preliminary screening for AOCs with potential petroleum impacts also included the following additional sets of New York State criteria:

- NYSDEC CP-51 Soil Cleanup Guidance Supplemental Residential SCOs, Table 1 (NYSDEC 2010a).
- NYSDEC CP-51 Soil Cleanup Guidance Soil Cleanup Levels (SCLs) for Gasoline and Fuel Oil, Tables 2 and 3 (NYSDEC 2010a).

### 2.2 Selection of Ecological Screening Criteria for Soil

Preliminary ecological screening values for surface soil for all AOCs were selected using a hierarchic approach using the following sets of ecological criteria. These values consider potential risks to invertebrates and plants, as well as birds and mammals (wildlife) as ecological receptors. The priority for these sets of criteria is based on industry standards associated with the toxicity data, supporting documentation, and frequency of updates. Note that subsurface soil was not compared to ecological criteria because subsurface soil is not considered commonly accessible for the representative receptors being evaluated.

For lower trophic level receptors (soil invertebrates and terrestrial plants):

1. USEPA Ecological Soil Screening Levels (Eco-SSLs) for plants and soil invertebrates derived according to Guidance for Developing Ecological Soil Screening Levels (USEPA 2005), including interim documents developed from 2006 through 2008.

2. Oak Ridge National Laboratory (ORNL) Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants (Efroymson et al. 1997a).

3. ORNL Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Soil and litter Invertebrates and Heterotrophic Process (Efroymson et al. 1997b).

4. USEPA Region 4 Supplemental Guidance to Ecological Risk Assessment (USEPA 2015).

5. Los Alamos National Laboratory (LANL) Ecorisk Database, Release 3.3 (LANL 2015).

For higher trophic level receptors (birds and mammals):

1. The lower of the USEPA Eco-SSLs for birds and mammals derived according to USEPA guidance (USEPA 2005).

2. The lowest of the wildlife-based soil Preliminary Remediation Goals (PRGs) presented in ORNL's Preliminary Remediation Goals for Ecological Endpoints (Efroymson et al. 1997c).

3. The lower of the soil screening values for birds and mammals presented in USEPA Region 4 Supplemental Guidance to Ecological Risk Assessment (USEPA 2015).

4. The lowest of the wildlife-based soil screening values for birds and mammals presented in the LANL Ecorisk Database (LANL 2015).

Additionally, preliminary screening for AOCs with potential petroleum impacts also included the following additional sets of New York State criteria:

- NYSDEC CP-51 Soil Cleanup Guidance Supplemental Residential SCOs, Table 1 (NYSDEC 2010a).

- NYSDEC CP-51 Soil Cleanup Guidance Soil Cleanup Levels (SCLs) for Gasoline and Fuel Oil, Tables 2 and 3 (NYSDEC 2010a).

## 2.3 Development of Site-Specific Background Threshold Values

A site-specific background study was completed at Camp Hero to calculate BTVs for surface soil and subsurface soil, which are applied as part of this preliminary screening evaluation. BTVs were also calculated for metals in groundwater. The soil BTVs were calculated for PAHs and TAL metals based on the generally ubiquitous nature of those parameter groups and the relatively frequent finding that they are not exclusively related to CERCLA releases. The derivation and results of BTVs are provided separately. BTVs will also be calculated for surface water and sediment after completion of the Phase III RI field investigation, which will include the collection of background/reference surface water and sediment samples.

The primary objective of the surface and subsurface soil background study was to provide BTVs for comparison to site-specific sampling results collected during prior field investigations. Permutation testing was conducted to 1) compare the mean of two soil type data sets, Whitman Sandy Loam (WSL) and Montauk Loam (ML) and 2) compare the mean of surface and subsurface soil data sets.

If the mean concentrations for the ML and WSL soil types were determined to be similar, then the ML and WSL data sets were combined for that particular metal at the specified depth (surface or subsurface), resulting in one BTV. However, if the mean concentrations were significantly different, then the soil types were analyzed separately for that particular metal, resulting in two BTVs. Similarly, if mean concentrations between surface and subsurface data for a chemical were determined to be similar, a BTV was calculated based on the combined depth data set.

For four metals (arsenic, calcium, iron, and manganese), the soil types were statistically different for at least one depth horizon. In these cases, the lower of the soil type BTVs was conservatively selected for comparison to the existing soil dataset for identifying analytes and AOCs warranting further assessment. For several metals (aluminum, arsenic, beryllium, calcium, chromium, copper, iron, nickel, selenium, silver, vanadium, and zinc), the permutation testing results identified no significant differences between surface and subsurface different soil depths. In these cases, a combined soil depth BTV was derived and used for screening both surface and subsurface data.

In cases, where the permutation testing identified significant differences with the sampling depths, separate surface and subsurface soil BTVs were derived. If more than one BTV was available per each soil depth, the lowest surface soil BTV was selected to evaluate the surface data and the lowest subsurface BTV was used to evaluate the sub-surface data. The BTVs for surface, subsurface soil, and groundwater, and forthcoming BTVs for surface water and sediment will collectively be used in the human health and ecological risk assessments and may be used to assist the team in making risk-based decisions after the risk assessments are completed.

U.S. Environmental Protection Agency (USEPA) ProUCL 5.1 statistical software and PAleontological STatistics (PAST) 3.13 data analysis software were used to conduct the statistical analysis of the background soil data. The analysis included summary statistics, goodness-of-fit testing, permutation testing, outlier testing, and finally BTV calculations. Refer to the background study report for further details.

## 2.4 Calculation of the Selected Screening Values

To select screening values for this preliminary screening evaluation, the criteria sources identified for human health and ecological receptors (refer to Section 2.1 and 2.2) were compared to select the most conservative (lowest) value for each parameter. Tables 2 and 3 present the comparison for surface soil, and Tables 4 and 5 present the comparison for subsurface soil.

# 3.0 ADDITIONAL CONSIDERATIONS

In addition to the analytical screening process described in Section 2.0, additional considerations in evaluating AOCs for further assessment included the results of geophysical or magnetometer surveys (provided separately), an evaluation of AOCs under the context of CERCLA, an evaluation of the types of analytes in exceedance at each of the AOCs, and field observations.

## 3.1 Geophysical and Magnetometer Surveys

Geophysical or magnetometer surveys were completed at 15 AOCs during the Phase I investigations. At 10 AOCs, results indicated that no underground anomalies were present and no samples were warranted. At 2 AOCs, geophysical surveys indicated tank-sized subsurface anomalies, but small "test holes" verified that no tanks were present at these locations and no evidence of a release was observed (petroleum odor or staining). At 1 AOC, geophysical surveys indicated tank-sized subsurface anomalies and evidence of petroleum was observed in a small "test hole" (petroleum odor and elevated PID readings). Soil and grab-groundwater samples were collected at this AOC. Additionally, extensive visual and magnetometer surveys were conducted at 2 AOCs to locate boilers noted by Cashin (1998) at areas H-7 and H-8, but the boilers could not be located. Refer to Section 4.1 for further details.

## 3.2 CERCLA Context

A total of 2 AOCs and 1 additional area observed during the Phase I field investigation were identified as exhibiting potential impacts that would not be categorized as a CERCLA release, and thus, are being addressed outside the context of CERCLA. Refer to Section 4.1 for further details.

## 3.3 Types of Analytes

Through this preliminary screening evaluation, there was 1 AOC with no exceedances other than calcium. Calcium is not considered in either the human health or ecological risk assessments, and is considered an essential nutrient. Thus, NFA is warranted for this AOC. Refer to Section 4.1 for further details.

## 3.4 Field Observations

Field observations during prior investigations were also considered in evaluating AOCs for further assessment. At 4 AOCs, surface and subsurface soil samples collected in vicinity of identified buried debris exhibited no analytes exceeding screening values or BTVs; however, field observations indicated potential groundwater impacts. During temporary well-point grab sampling of groundwater, the field team reported evidence of a petroleum sheen or odor. Based on this observation, further assessment is warranted at these AOCs. Refer to Section 4.2 for further details.

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## 4.0 RESULTS OF THE PRELIMINARY SCREENING EVALUATION

The maximum detected concentration for each analyte in surface and subsurface soil was compared to the most conservative applicable screening criteria and the site-specific BTVs. If no analytes at an AOC exceeded the screening criteria or BTVs, the AOC was identified for NFA under the CERCLA process. If however, any analyte exceeded the screening criteria and also the BTVs, then that AOC was identified as requiring further assessment. In some cases, AOCs were also recommended for further assessment if field observations or measurements indicated evidence of a potential release.

Tables 6 through 9 present the results of the preliminary screening evaluation, and Figure 2 provides the sitewide view of the results. On Figure 2, sampling locations are shown in red if they exhibited at least one analyte in exceedance of this evaluation. The remaining sampling locations (without any analytes in exceedance) are shown in black. Table 10 presents a summary of the results for the Camp Hero AOCs, including which AOCs warrant NFA and which will proceed to the Phase III investigation for further assessment.

### 4.1 AOCs Warranting No Further Assessment

A total of 25 AOCs, plus 8 of 14 segments of the WDS AOC, warrant NFA based on the results of this preliminary screening evaluation, results of the geophysical surveys, or an evaluation of potential CERCLA releases, as summarized in Table 10.

Based on this preliminary screening evaluation of site data, NFA is warranted for Building 201, Building 2010 (UST 30), Building F100C (UST 34), Drum Site (H-22), Engineering Field Office, Open Pits (H-17), Open Pits (H-21), Plotting Room 113, and 8 segments of the WDS (segments -SB04 and -SB05 Septic Tank, -SB10 Box, -SB11 Cesspool, -SB12 Manhole, -SB14 to -SB17 Cesspools, -SB18 to -SB19, and -SB21/-SB22 Septic Tank/Drain Field). No compounds were exceeding preliminary screening values or BTVs in surface or subsurface soil at these AOCs.

Based on the presence of only calcium in excess of screening criteria, NFA is warranted for one component of the WDS (segment -SB20). As previously indicated, calcium is not considered in either the human health or ecological risk assessments and is considered an essential nutrient.

Based on the results of the geophysical surveys, NFA is warranted at AOCs Battery 216, AGC Sites 1 – 4 (including the Camp Hero State Park Bluffs), Building 20 (Suspected Tank A), Building 104R (Suspected Tank D), Building 3001 (Suspected Tank E), Pump House (Suspected Tank F), and Pump House (Suspected Tank G). No underground anomalies were identified during geophysical and magnetometer surveys and no sampling was conducted.

Based on "test holes" conducted during the Phase I investigation, NFA is warranted at AOCs Building 2 (Suspected Tank C) Building 109 (Suspected Tank H). Geophysical surveys at these AOCs indicated

tank-sized subsurface anomalies, but small "test holes" verified that no tanks were present at these locations and no evidence of a release was observed (petroleum odor or staining).

Based on results of a magnetometer survey, AOCs H-7 and H-8 Boilers warrant NFA. An extensive visual and magnetometer survey was conducted to locate the boilers noted by Cashin (1998) at areas H-7 and H-8, but the boilers could not be located. Additionally, based on building access restrictions, the AOC Battery 112 also warrants NFA. Entrances to AOC Battery 112 were sealed for safety purposes; building access is not available.

Based on an evaluation of potential CERCLA releases, NFA "under CERCLA" is required for Battery 113, Building 107, and Building 10. PCBs were detected in either wipe or concrete chip samples at Battery 113 and Building 107, and an AST containing weathered fuel was identified in Battery 113. Additionally, paint and jet hydraulic oil cans were identified in Building 10 during the Phase I investigation, which were likely left by military activities at the site. Building 10 was not included as an AOC in the RI WP, but the existing materials were inventoried during the Phase I field effort at the request of the USACE. While no further assessment is deemed necessary as part of Phase III efforts for Battery 113, Building 107, and Building 10, a response action will be recommended to address the aforementioned findings in these areas.

## 4.2 AOCs Warranting Further Assessment

A total of 21 AOCs, plus 6 segments of the WDS AOC, warrant further assessment as part of the Phase III investigation based on the results of this preliminary screening evaluation. These AOCs either had constituents in surface or subsurface soil exceeding preliminary screening values and BTVs, or field evidence of a potential release, including petroleum odor or sheen on groundwater from temporary wells. Specifically, further assessment is warranted at AST35 [AST-35 (H-13)], FPH (FPH for AST-35), and STB (Suspected Tank B) AOCs based on the field observation of petroleum sheen or odor during grab-groundwater sampling from temporary well-points during the Phase I field investigation. These AOCs warrant further assessment to verify whether petroleum impacts are present.

## 4.3 Preliminary Screening Evaluation Summary

An overall summary of this preliminary screening evaluation is presented in Table 10. In summary, of the 47 AOCs identified at Camp Hero, NFA is warranted for 25 AOCs, and further assessment is recommended for 21 AOCs as part of the Phase III investigation. The 47th AOC, the WDS, is comprised of 14 segments across the Camp Hero site. Of these segments, 8 warrant NFA, and 6 warrant further assessment. The Phase III sampling approach, including specific analytes and media needing further evaluation, will be established in the Camp Hero Phase III SAP.

## 5.0 REFERENCES

AECOM-Tidewater JV, 2016. *Final Phase I Field Investigation Report.* Remedial Investigation, Feasibility Study, Proposed Plan and Decision Document, Former Camp Hero, Montauk, New York. November.

AECOM-Tidewater JV, 2017. *Draft Phase II Field Investigation Report.* Remedial Investigation, Feasibility Study, Proposed Plan and Decision Document, Former Camp Hero, Montauk, New York. March.

Cashin Associates, 1998. *New York State Office of Parks, Recreation and Historic Preservation*. Amended Final, Camp Hero Feasibility Study, Hazardous Materials Survey, Preliminary Report, Montauk, New York. June.

Efroymson, R. A., M. E. Will, and G. W. Suter II. 1997a. *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants.* 1997 Revision. ES/ER/TM-85/R3. Oak Ridge, TN: Department of Energy, Oak Ridge National Laboratory. November.

Efroymson, R. A., M. E. Will, and G. W. Suter II. 1997b. *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes.* 1997 Revision. ES/ER/TM-126/R2. Oak Ridge, TN: Department of Energy, Oak Ridge National Laboratory. November.

Efroymson, R. A., M. E. Will, and G. W. Suter II. 1997c. *Preliminary Remediation Goals for Ecological Endpoints.* 1997 Revision. ES/ER/TM-162/R2. Oak Ridge, TN: Department of Energy, Oak Ridge National Laboratory. November.

New York Codes, Rules, and Regulations (NYCRR), 2015. C*hapter 6 Part 375-1, General Remedial Program Requirements*.

NYCRR, 2015. *Chapter 6 Part 375-6: Remedial Soil Cleanup Objectives*. Accessed at http://www.dec.ny.gov/regs/15507.html.

New York State Department of Environmental Conservation (NYSDEC), 2010a. *Commissioner Policy 51 (CP-51): Soil Cleanup Guidance*. Accessed at http://www.dec.ny.gov/docs/remediation_hudson_pdf/cpsoil.pdf. October.

United States Environmental Protection Agency (USEPA). 2005. Guidance for Developing Ecological Soil Screening Levels. Office of Emergency and Remedial Response Washington D.C., November 2003, Revised February 2005. Includes interim documents 2006 through 2008.

USEPA, 2015. Supplemental Guidance to Risk Assessment Supplemental Guidance: Region 4 Bulletins, Ecological Risk Assessment. http://www.epa.gov/sites/production/files/2015-09/documents/r4_era_guidance_document_draft_final_8-25-2015.pdf.

USEPA, 2016a. *Maximum Contaminant Levels (MCL).* June.

USEPA, 2016b. *Regional Screening Level (RSL) Summary Table (TR=1E-6, HQ=0.1)*. June.

USEPA, 2017. *Regional Screening Levels (RSLs) On-line RSL Calculator*. Accessed at https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search. January

Los Alamos National Laboratory (LANL), 2015. Ecorisk Database, Release 3.3. September 2015.

Weston, Inc. 2000. *Final Data Collection Report for Defense Environmental Restoration Program Formerly Used Defense Sites (DERP-FUDS), Camp Hero -Montauk, New York*. August.

# Figures

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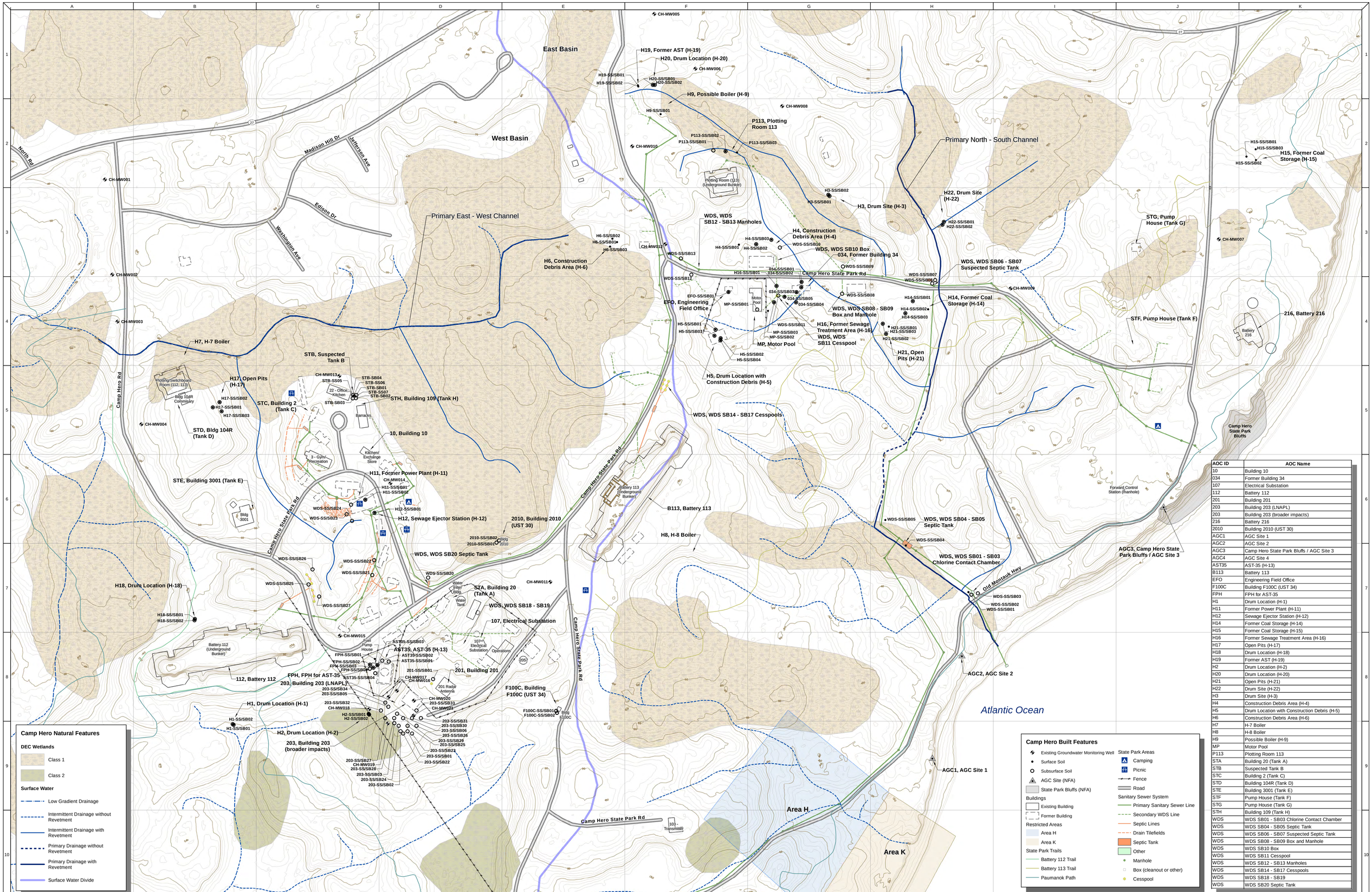



## Camp Hero Natural Features

**DEC Wetlands**

- Class 1
- Class 2

**Surface Water**

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Surface Water Divide

## Camp Hero Built Features

- Existing Groundwater Monitoring Well
- Surface Soil
- Subsurface Soil
- AGC Site (NFA)
- State Park Bluffs (NFA)

**Buildings**

- Existing Building
- Former Building

**Restricted Areas**

- Area H
- Area K

**State Park Trails**

- Battery 112 Trail
- Battery 113 Trail
- Paumanok Path

**State Park Areas**

- Camping
- Picnic
- Fence
- Road

**Sanitary Sewer System**

- Primary Sanitary Sewer Line
- Secondary WDS Line
- Septic Lines
- Drain Tilefields
- Septic Tank
- Other
- Manhole
- Box (cleanout or other)
- Cesspool

| AOC ID | AOC Name |
|---|---|
| 10 | Building 10 |
| 034 | Former Building 34 |
| 107 | Electrical Substation |
| 112 | Battery 112 |
| 201 | Building 201 |
| 203 | Building 203 (LNAPL) |
| 203 | Building 203 (broader impacts) |
| 216 | Battery 216 |
| 2010 | Building 2010 (UST 30) |
| AGC1 | AGC Site 1 |
| AGC2 | AGC Site 2 |
| AGC3 | Camp Hero State Park Bluffs / AGC Site 3 |
| AGC4 | AGC Site 4 |
| AST35 | AST-35 (H-13) |
| B113 | Battery 113 |
| EFO | Engineering Field Office |
| F100C | Building F100C (UST 34) |
| FPH | FPH for AST-35 |
| H1 | Drum Location (H-1) |
| H11 | Former Power Plant (H-11) |
| H12 | Sewage Ejector Station (H-12) |
| H14 | Former Coal Storage (H-14) |
| H15 | Former Coal Storage (H-15) |
| H16 | Former Sewage Treatment Area (H-16) |
| H17 | Open Pits (H-17) |
| H18 | Drum Location (H-18) |
| H19 | Former AST (H-19) |
| H2 | Drum Location (H-2) |
| H20 | Drum Location (H-20) |
| H21 | Open Pits (H-21) |
| H22 | Drum Site (H-22) |
| H3 | Drum Site (H-3) |
| H4 | Construction Debris Area (H-4) |
| H5 | Drum Location with Construction Debris (H-5) |
| H6 | Construction Debris Area (H-6) |
| H7 | H-7 Boiler |
| H8 | H-8 Boiler |
| H9 | Possible Boiler (H-9) |
| MP | Motor Pool |
| P113 | Plotting Room 113 |
| STA | Building 20 (Tank A) |
| STB | Suspected Tank B |
| STC | Building 2 (Tank C) |
| STD | Building 104R (Tank D) |
| STE | Building 3001 (Tank E) |
| STF | Pump House (Tank F) |
| STG | Pump House (Tank G) |
| STH | Building 109 (Tank H) |
| WDS | WDS SB01 - SB03 Chlorine Contact Chamber |
| WDS | WDS SB04 - SB05 Septic Tank |
| WDS | WDS SB06 - SB07 Suspected Septic Tank |
| WDS | WDS SB08 - SB09 Box and Manhole |
| WDS | WDS SB10 Box |
| WDS | WDS SB11 Cesspool |
| WDS | WDS SB12 - SB13 Manholes |
| WDS | WDS SB14 - SB17 Cesspools |
| WDS | WDS SB18 - SB19 |
| WDS | WDS SB20 Septic Tank |


MAP LOCATION

Surface water features obtained from National Hydrography Dataset (NHD) Dates of publication vary.

Wetlands shapes from New York State Department of Environmental Conservation (NYSDEC).

Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

0 75 150 300 Feet

1 inch = 150 feet

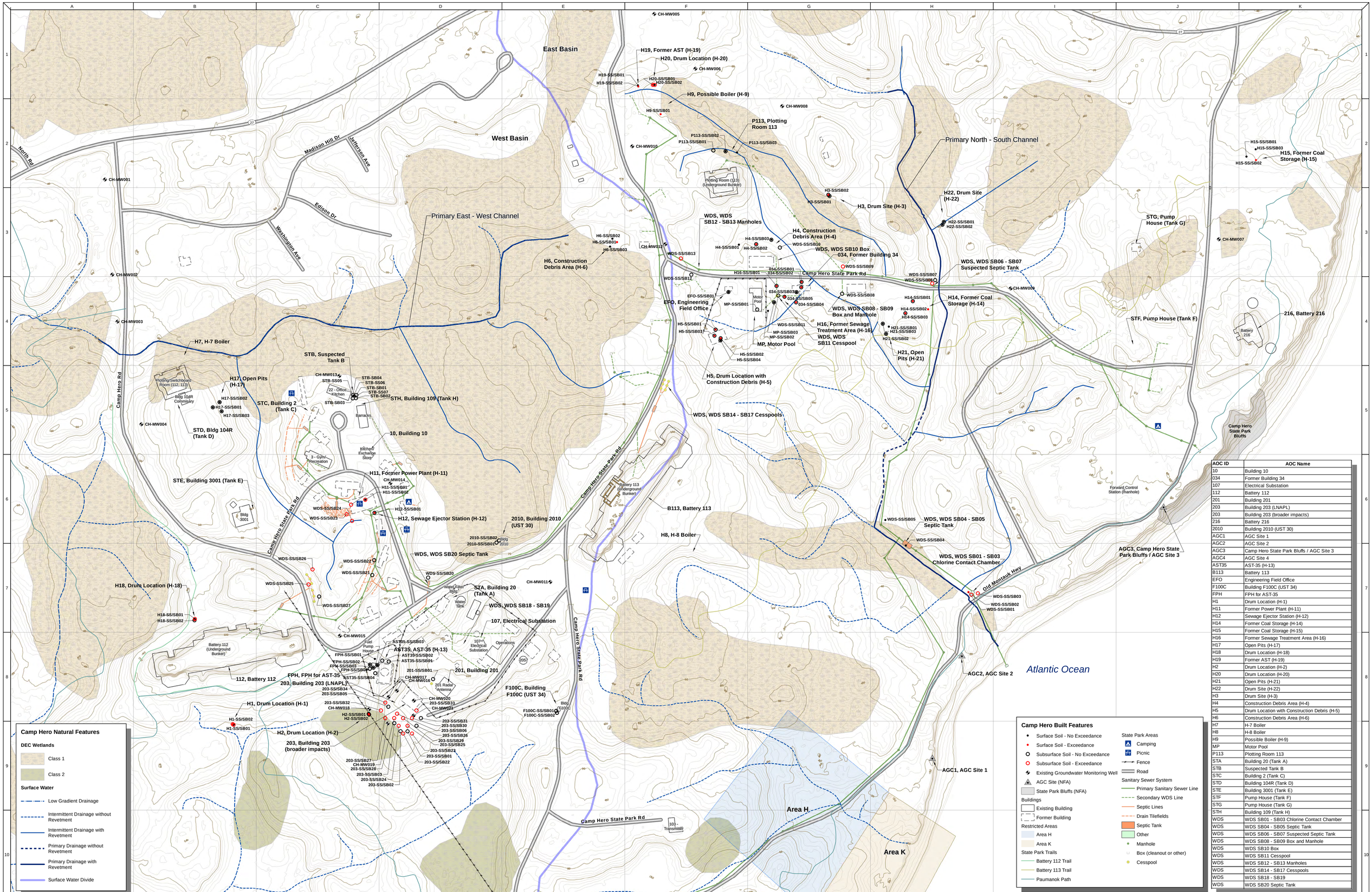
AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

# AOCs and Prior Sampling Locations

Camp Hero Remedial Investigation
Montauk, New York

| PROJECT NO. | PREPARED BY | DATE | FIGURE |
|---|---|---|---|
| 60443903 | ACC | April 2017 | Figure 1 |

4/3/2017 1:1,800 \\USCHL1FP0021\Data\Projects\Gov\Projects\USACE\Camp_Hero\GIS\Projects\Phase_III_RI\MXD\Fig_1_AOCs_and_Prior_Sampling_Loc.mxd




## Camp Hero Natural Features

**DEC Wetlands**

- Class 1
- Class 2

**Surface Water**

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Surface Water Divide

## Camp Hero Built Features

- Surface Soil - No Exceedance
- Surface Soil - Exceedance
- Subsurface Soil - No Exceedance
- Subsurface Soil - Exceedance
- Existing Groundwater Monitoring Well
- AGC Site (NFA)
- State Park Bluffs (NFA)

Buildings
- Existing Building
- Former Building

Restricted Areas
- Area H
- Area K

State Park Trails
- Battery 112 Trail
- Battery 113 Trail
- Paumanok Path

State Park Areas
- Camping
- Picnic
- Fence
- Road

Sanitary Sewer System
- Primary Sanitary Sewer Line
- Secondary WDS Line
- Septic Lines
- Drain Tilefields
- Septic Tank
- Other
- Manhole
- Box (cleanout or other)
- Cesspool

| AOC ID | AOC Name |
|---|---|
| 10 | Building 10 |
| 034 | Former Building 34 |
| 107 | Electrical Substation |
| 112 | Battery 112 |
| 201 | Building 201 |
| 203 | Building 203 (LNAPL) |
| 203 | Building 203 (broader impacts) |
| 216 | Battery 216 |
| 2010 | Building 2010 (UST 30) |
| AGC1 | AGC Site 1 |
| AGC2 | AGC Site 2 |
| AGC3 | Camp Hero State Park Bluffs / AGC Site 3 |
| AGC4 | AGC Site 4 |
| AST35 | AST-35 (H-13) |
| B113 | Battery 113 |
| EFO | Engineering Field Office |
| F100C | Building F100C (UST 34) |
| FPH | FPH for AST-35 |
| H1 | Drum Location (H-1) |
| H11 | Former Power Plant (H-11) |
| H12 | Sewage Ejector Station (H-12) |
| H14 | Former Coal Storage (H-14) |
| H15 | Former Coal Storage (H-15) |
| H16 | Former Sewage Treatment Area (H-16) |
| H17 | Open Pits (H-17) |
| H18 | Drum Location (H-18) |
| H19 | Former AST (H-19) |
| H2 | Drum Location (H-2) |
| H20 | Drum Location (H-20) |
| H21 | Open Pits (H-21) |
| H22 | Drum Site (H-22) |
| H3 | Drum Site (H-3) |
| H4 | Construction Debris Area (H-4) |
| H5 | Drum Location with Construction Debris (H-5) |
| H6 | Construction Debris Area (H-6) |
| H7 | H-7 Boiler |
| H8 | H-8 Boiler |
| H9 | Possible Boiler (H-9) |
| MP | Motor Pool |
| P113 | Plotting Room 113 |
| STA | Building 20 (Tank A) |
| STB | Suspected Tank B |
| STC | Building 2 (Tank C) |
| STD | Building 104R (Tank D) |
| STE | Building 3001 (Tank E) |
| STF | Pump House (Tank F) |
| STG | Pump House (Tank G) |
| STH | Building 109 (Tank H) |
| WDS | WDS SB01 - SB03 Chlorine Contact Chamber |
| WDS | WDS SB04 - SB05 Septic Tank |
| WDS | WDS SB06 - SB07 Suspected Septic Tank |
| WDS | WDS SB08 - SB09 Box and Manhole |
| WDS | WDS SB10 Box |
| WDS | WDS SB11 Cesspool |
| WDS | WDS SB12 - SB13 Manholes |
| WDS | WDS SB14 - SB17 Cesspools |
| WDS | WDS SB18 - SB19 |
| WDS | WDS SB20 Septic Tank |


MAP LOCATION

Surface water features obtained from National Hydrography Dataset (NHD) Dates of publication vary.

Wetlands shapes from New York State Department of Environmental Conservation (NYSDEC).

Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

0 75 150 300 Feet

1 inch = 150 feet

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**AOCs and Prior Sampling Locations with Exceedances of Preliminary Screening Values**

Camp Hero Remedial Investigation
Montauk, New York

| PROJECT NO. | PREPARED BY | DATE | Figure 2 |
|---|---|---|---|
| 60443903 | JB | April 2017 | |

4/3/2017 1:1,800 \\USCHI.LFP0021\Data\Projects\Govt\Projects\USACE\Camp_Hero\GIS\Projects\Phase_III_RI\MXD\Fig_2_AOCs_Prior_Sampling_Loc_Exceed_Preliminary_Screening_Values.mxd

# Tables

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**Table 1**
**Selection of Ecological Screening Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical | CAS No. | Terrestrial Plants (mg/kg) | Soil Invertebrates (mg/kg) | Wildlife (mg/kg) | Selected Ecological Criteria [11] (mg/kg) |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| Antimony | 7440-36-0 | 5 [2] | 78 [1] | 0.27 [1] | 0.27 |
| Arsenic | 7440-38-2 | 18 [1] | 60 [3] | 43 [1] | 18 |
| Barium | 7440-39-3 | 500 [2] | 330 [1] | 2000 [1] | 330 |
| Beryllium | 7440-41-7 | 10 [2] | 40 [1] | 21 [1] | 10 |
| Cadmium | 7440-43-9 | 32 [1] | 140 [1] | 0.36 [1] | 0.36 |
| Calcium | 7440-70-2 | | | | 0 |
| Chromium | 7440-47-3 | 1 [2] | 0.4 [3] | 26 [1, 9] | 0.4 |
| Cobalt | 7440-48-4 | 13 [1] | | 120 [1] | 13 |
| Copper | 7440-50-8 | 70 [1] | 80 [1] | 28 [1] | 28 |
| Iron | 7439-89-6 | | | | |
| Lead | 7439-92-1 | 120 [1] | 1700 [1] | 11 [1] | 11 |
| Magnesium | 7439-95-4 | | | | |
| Manganese | 7439-96-5 | 220 [1] | 450 [1] | 4000 [1] | 220 |
| Mercury | 7439-97-6 | 0.3 [2] | 0.1 [3] | 0.00051 [5, 10] | 0.00051 |
| Nickel | 7440-02-0 | 38 [1] | 280 [1] | 130 [1] | 38 |
| Potassium | 7440-09-7 | | | | |
| Selenium | 7782-49-2 | 0.52 [1] | 4.1 [1] | 0.63 [1] | 0.52 |
| Silver | 7440-22-4 | 560 [1] | | 4.2 [1] | 4.2 |
| Sodium | 82115-62-6 | | | | |
| Thallium | 7440-28-0 | 1 [2] | | 2.1 [5] | 1 |
| Vanadium | 7440-62-2 | 2 [2] | | 7.8 [1] | 2 |
| Zinc | 7440-66-6 | 160 [1] | 120 [1] | 46 [1] | 46 |
| **PCBs** | | | | | |
| Aroclor 1016 | 12674-11-2 | | | 1 [4] | 1 |
| Aroclor 1221 | 11104-28-2 | | | | |
| Aroclor 1232 | 11141-16-5 | | | | |
| Aroclor 1242 | 53469-21-9 | | | 0.041 [4] | 0.041 |
| Aroclor 1248 | 12672-29-6 | | | 0.0072 [4] | 0.0072 |
| Aroclor 1254 | 11097-69-1 | 160 [4] | | 0.041 [4] | 0.041 |
| Aroclor 1260 | 11096-82-5 | | | 0.88 [4] | 0.88 |
| PCBs, total | 1336-36-3 | 40 [2] | 0.33 [4] | 0.371 [5] | 0.33 |
| **SVOCs** | | | | | |
| 2,4,5-Trichlorophenol | 95-95-4 | 4 [2] | 9 [3] | | 4 |
| 2,4,6-Trichlorophenol | 88-06-2 | | 10 [3] | | 10 |
| 2,4-Dichlorophenol | 120-83-2 | 20 [2, 7] | 0.05 [4] | | 0.05 |
| 2,4-Dimethylphenol | 105-67-9 | | 0.04 [4] | | 0.04 |
| 2,4-Dinitrophenol | 51-28-5 | 20 [2] | 0.15 [4] | | 0.15 |
| 2,4-Dinitrotoluene | 121-14-2 | 6 [4] | 18 [4] | 13 [6] | 6 |
| 2,6-Dinitrotoluene | 606-20-2 | | 30 [4] | 4.1 [6] | 4.1 |
| 2-Chloronaphthalene | 91-58-7 | | | | |
| 2-Chlorophenol | 95-57-8 | 7 [2, 8] | 0.06 [4] | 0.39 [6] | 0.06 |
| 2-Methylnaphthalene | 91-57-6 | | 29 [1] | 16 [6] | 16 |
| 2-Methylphenol | 95-48-7 | 0.67 [4] | 0.1 [4] | 590 [6] | 0.1 |
| 2-Nitroaniline | 88-74-4 | | | 5.4 [4] | 5.4 |
| 2-Nitrophenol | 88-75-5 | | | | |
| 3,3'-Dichlorobenzidine | 91-94-1 | | 0.03 [4] | | 0.03 |
| 3-Nitroaniline | 99-09-2 | | | | |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | | | | |
| 4-Bromophenyl-phenylether | 101-55-3 | | | | |
| 4-Chloro-3-methylphenol | 59-50-7 | | | | |
| 4-Chloroaniline | 106-47-8 | 1 [4] | 1.8 [4] | | 1 |
| 4-Chlorophenyl-phenylether | 7005-72-3 | | | | |
| 4-Methylphenol | 106-44-5 | | 0.08 [4] | | 0.08 |
| 4-Nitroaniline | 100-01-6 | | | | |
| 4-Nitrophenol | 100-02-7 | | 7 [3] | | 7 |
| Acenaphthene | 83-32-9 | 20 [2] | 29 [1] | 120 [6] | 20 |
| Acenaphthylene | 208-96-8 | | 29 [1] | 120 [6] | 29 |
| Anthracene | 120-12-7 | 6.8 [4] | 29 [1] | 210 [6] | 6.8 |
| Benzo(a)anthracene | 56-55-3 | 18 [4] | 18 [1] | 0.8 [6] | 0.8 |
| Benzo(a)pyrene | 50-32-8 | | 18 [1] | 53 [6] | 18 |
| Benzo(b)fluoranthene | 205-99-2 | 18 [4] | 18 [1] | 38 [6] | 18 |
| Benzo(g,h,i)perylene | 191-24-2 | | 18 [1] | 24 [6] | 18 |
| Benzo(k)fluoranthene | 207-08-9 | | 18 [1] | 62 [6] | 18 |
| Bis(2-chloroethoxy)methane | 111-91-1 | | | | |
| Bis(2-chloroethyl)ether | 111-44-4 | | | | |
| Bis(2-chloroisopropyl)ether | 39638-32-9 | | | | |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | | 0.23 [4] | 0.02 [6] | 0.02 |
| ButylBenzylPhthalate | 85-68-7 | | 0.59 [4] | 90 [6] | 0.59 |
| Chrysene | 218-01-9 | | 18 [1] | 2.4 [6] | 2.4 |
| Dibenz(a,h)anthracene | 53-70-3 | | 18 [1] | 12 [6] | 12 |
| Dibenzofuran | 132-64-9 | 6.1 [4] | 0.15 [4] | | 0.15 |
| DiethylPhthalate | 84-66-2 | 100 [2] | 0.23 [4] | 3600 [6] | 0.23 |
| DimethylPhthalate | 131-11-3 | | 200 [3] | 38 [6] | 38 |
| Di-n-butylPhthalate | 84-74-2 | 200 [2] | 0.22 [4] | 0.011 [6] | 0.011 |
| Di-n-octylPhthalate | 117-84-0 | | 0.21 [4] | 0.91 [6] | 0.21 |
| Fluoranthene | 206-44-0 | | 10 [4] | 22 [6] | 10 |
| Fluorene | 86-73-7 | | 30 [3] | 250 [6] | 30 |
| Hexachlorobenzene | 118-74-1 | 10 [4] | 10 [4] | 0.079 [6] | 0.079 |

**Table 1**
**Selection of Ecological Screening Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical | CAS No. | Terrestrial Plants (mg/kg) | Soil Invertebrates (mg/kg) | Wildlife (mg/kg) | Selected Ecological Criteria [11] (mg/kg) |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 87-68-3 | | 0.1 [4] | | 0.1 |
| Hexachlorocyclopentadiene | 77-47-4 | 10 [2] | 0.001 [4] | | 0.001 |
| Hexachloroethane | 67-72-1 | | 0.024 [4] | | 0.024 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | 18 [1] | 62 [6] | 18 |
| Isophorone | 78-59-1 | | | | |
| Naphthalene | 91-20-3 | 1 [4] | 29 [1] | 3.4 [6] | 1 |
| Nitrobenzene | 98-95-3 | | 40 [3] | 4.9 [6] | 4.9 |
| N-Nitroso-di-N-propylamine | 621-64-7 | | | | |
| N-Nitrosodiphenylamine | 86-30-6 | | 20 [3] | | 20 |
| Pentachlorophenol | 87-86-5 | 5 [1] | 31 [1] | 2.1 [1] | 2.1 |
| Phenanthrene | 85-01-8 | | 5.5 [4] | 10 [6] | 5.5 |
| Phenol | 108-95-2 | 70 [2] | 30 [3] | 38 [6] | 30 |
| Pyrene | 129-00-0 | | 10 [4] | 22 [6] | 10 |
| Total HMW PAHs | CALC-HMW PAHs | | 18 [1] | 1.1 [1] | 1.1 |
| Total LMW PAHs | CALC-LMW PAHs | | 29 [1] | 100 [1] | 29 |
| **VOCs** | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | 0.07 [4] | | 0.07 |
| 1,1,1-Trichloroethane | 71-55-6 | | 0.04 [4] | 260 [6] | 0.04 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | 0.19 [4] | | 0.19 |
| 1,1,2-Trichloroethane | 79-00-5 | | 0.32 [4] | | 0.32 |
| 1,1-Dichloroethane | 75-34-3 | | 0.14 [4] | 210 [6] | 0.14 |
| 1,1-Dichloroethene | 75-35-4 | | 0.04 [4] | 11 [6] | 0.04 |
| 1,1-Dichloropropene | 563-58-6 | | | | |
| 1,2,3-Trichlorobenzene | 87-61-6 | | 20 [3] | | 20 |
| 1,2,3-Trichloropropane | 96-18-4 | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | | 20 [3] | 0.27 [6] | 0.27 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | 0.09 [4] | | 0.09 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | | | |
| 1,2-Dibromoethane | 106-93-4 | | | | |
| 1,2-Dichlorobenzene | 95-50-1 | | 0.09 [4] | 0.92 [6] | 0.09 |
| 1,2-Dichloroethane | 107-06-2 | | 0.4 [4] | 0.85 [6] | 0.4 |
| 1,2-Dichloropropane | 78-87-5 | | 700 [3] | | 700 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | 0.16 [4] | | 0.16 |
| 1,3-Dichlorobenzene | 541-73-1 | | 0.08 [4] | 0.73 [6] | 0.08 |
| 1,3-Dichloropropane | 142-28-9 | | | | |
| 1,4-Dichlorobenzene | 106-46-7 | | 20 [3] | 0.88 [6] | 0.88 |
| 2,2-Dichloropropane | 594-20-7 | | | | |
| 2-Chlorotoluene | 95-49-8 | | | | |
| 4-Chlorotoluene | 106-43-4 | | | | |
| Benzene | 71-43-2 | | 0.12 [4] | 24 [6] | 0.12 |
| Bromobenzene | 108-86-1 | | | | |
| Bromochloromethane | 74-97-5 | | | | |
| Bromodichloromethane | 75-27-4 | | | | |
| Bromoform | 75-25-2 | | 0.07 [4] | | 0.07 |
| Bromomethane | 74-83-9 | | 0.002 [4] | | 0.002 |
| Carbon Tetrachloride | 56-23-5 | | 0.05 [4] | | 0.05 |
| Chlorobenzene | 108-90-7 | | 40 [3] | 43 [6] | 40 |
| Chloroethane | 75-00-3 | | | | |
| Chloroform | 67-66-3 | | 0.05 [4] | 8 [6] | 0.05 |
| Chloromethane | 74-87-3 | | | | |
| cis-1,2-Dichloroethene | 156-59-2 | | 0.04 [4] | | 0.04 |
| Dibromochloromethane | 124-48-1 | | | | |
| Dibromomethane | 74-95-3 | | | | |
| Dichlorodifluoromethane | 75-71-8 | | | | |
| Ethylbenzene | 100-41-4 | | 0.27 [4] | | 0.27 |
| Isopropylbenzene | 98-82-8 | | 0.04 [4] | | 0.04 |
| Methylene Chloride | 75-09-2 | | | 2.6 [6] | 2.6 |
| n-Butylbenzene | 104-51-8 | | | | |
| n-Propylbenzene | 103-65-1 | | | | |
| p-Isopropyltoluene | 99-87-6 | | 0.18 [4] | | 0.18 |
| sec-Butylbenzene | 135-98-8 | | | | |
| Styrene | 100-42-5 | 300 [2] | 1.2 [4] | | 1.2 |
| tert-Butylbenzene | 98-06-6 | | | | |
| Tetrachloroethene | 127-18-4 | 10 [4] | 0.06 [4] | 0.18 [6] | 0.06 |
| Toluene | 108-88-3 | 200 [2] | 0.15 [4] | 23 [6] | 0.15 |
| trans-1,2-Dichloroethene | 156-60-5 | | 0.04 [4] | | 0.04 |
| Trichloroethene | 79-01-6 | | | 42 [6] | 42 |
| Trichlorofluoromethane | 75-69-4 | | | 52 [4] | 52 |
| Vinyl Chloride | 75-01-4 | | | 0.12 [6] | 0.12 |
| Xylene, m- | 108-38-3 | | | | |
| Xylene, Mixture | 1330-20-7 | 100 [4] | 0.1 [4] | 1.4 [6] | 0.1 |
| Xylene, o- | 95-47-6 | | | | |
| Xylene, P- | 106-42-3 | | | | |

**Table 1**
**Selection of Ecological Screening Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

Notes:
All units are in milligrams per kilogram (mg/kg).
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
VOC - Volatile Organic Compound.
USEPA - United States Environmental Protection Agency.

1. USEPA 2005. Guidance for Developing Ecological Soil Screening Levels. Office of Emergency and Remedial Response Washington D.C., November 2003, Revised February 2005. Includes interim documents 2006 through 2008. Lower of bird and mammal values selected for wildlife.
2. Efroymson et al. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants. 1997 Revision, Oak Ridge National Laboratory Oak Ridge, TN, ES/ER/TM-85/R3.
3. Efroymson et al. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Soil and litter Invertebrates and Hetertropyic Process: Revision 1997, Oak Ridge National Laboratory Oak Ridge, TN, ES/ER/TM-126/R2.
4 - USEPA Region 4. 2015. Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment.
http://www.epa.gov/sites/production/files/2015-09/documents/r4_era_guidance_document_draft_final_8-25-2015.pdf. Soil screening values presented in Table 3.
Lower of bird and mammal values selected for wildlife.
5 - Efroymson et al. 1997. Preliminary Remediation Goals for Ecological Endpoints, Oak Ridge National Laboratory Oak Ridge, TN, ES/ER/TM-162/R2. Lowest available bird or mammal value selected for wildlife.
6 - LANL 2015. Ecorisk Database, Release 3.3. Los Alamos National Laboratory (LANL). September 2015. Lowest available bird or mammal value selected for wildlife.
7. 3,4-dichlorophenol used as a surrogate.
8. 3-chlorophenol used as a surrogate.
9. Value is for trivalent chromium (lower of available values for trivalent and hexavalent chromium).
10. Value is for methylmercury.
11. Selected ecological criteria is the lowest of the selected values for plants, invertebrates, and wildlife.

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**Table 2**
**Calculation of Selected Surface Soil Screening Values without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | Selected Ecological Criteria [1] (mg/kg) | EPA Residential THQ=0.1 [2] (mg/kg) | NYCRR 6-375 Residential SCO [3] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Surface Soil BTV [4] (mg/kg) | Selected Surface Soil Criteria [5] (mg/kg) |
|---|---|---|---|---|---|---|---|
| **Explosives** | | | | | | | |
| 1,3,5-Trinitrobenzene | 99-35-4 | | 220 | | 220 | | 220 |
| 1,3-Dinitrobenzene | 99-65-0 | | 0.63 | | 0.63 | | 0.63 |
| 2,4,6-Trinitrotoluene | 118-96-7 | | 3.6 | | 3.6 | | 3.6 |
| 2,4-Dinitrotoluene | 121-14-2 | 6 | 1.7 | | 1.7 | | 1.7 |
| 2,6-Dinitrotoluene | 606-20-2 | 4.1 | 0.36 | | 0.36 | | 0.36 |
| 2-Amino-4,6-dinitrotoluene | 35572-78-2 | | 15 | | 15 | | 15 |
| 2-Nitrotoluene | 88-72-2 | | 3.2 | | 3.2 | | 3.2 |
| 3-Nitrotoluene | 99-08-1 | | 0.63 | | 0.63 | | 0.63 |
| 4-Amino-2,6-Dinitro Toluene | 19406-51-0 | | 15 | | 15 | | 15 |
| 4-Nitrotoluene | 99-99-0 | | 25 | | 25 | | 25 |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 121-82-4 | | 6.1 | | 6.1 | | 6.1 |
| Methyl-2,4,6-trinitrophenylnitramine | 479-45-8 | | 16 | | 16 | | 16 |
| Nitrobenzene | 98-95-3 | 4.9 | 5.1 | | 4.9 | | 4.9 |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 2691-41-0 | | 390 | | 390 | | 390 |
| **Metals** | | | | | | | |
| Aluminum | 7429-90-5 | | 7700 | | 7700 | 27822 | 27822 |
| Antimony | 7440-36-0 | 0.27 | 3.1 | | 0.27 | 5.6 | 5.6 |
| Arsenic | 7440-38-2 | 13 | 0.68 | 16 | 0.68 | 3.383 | 3.383 |
| Barium | 7440-39-3 | 330 | 1500 | 350 | 330 | 56.3 | 330 |
| Beryllium | 7440-41-7 | 10 | 16 | 14 | 10 | 0.815 | 10 |
| Cadmium | 7440-43-9 | 0.36 | 7.1 | 2.5 | 0.36 | 0.18 | 0.36 |
| Calcium (Ca) | 7440-70-2 | | | | 0 | 751.8 | 751.8 |
| Chromium | 7440-47-3 | 0.4 | 0.3 | | 0.3 | 33.92 | 33.92 |
| Cobalt | 7440-48-4 | 13 | 2.3 | | 2.3 | 4.85 | 4.85 |
| Copper | 7440-50-8 | 28 | 310 | 270 | 28 | 57.2 | 57.2 |
| Iron (Fe) | 7439-89-6 | | 5500 | | 5500 | 19000 | 19000 |
| Lead | 7439-92-1 | 11 | 400 | 400 | 11 | 10.14 | 11 |
| Magnesium (Mg) | 7439-95-4 | | | | 0 | 3186 | 3186 |
| Manganese (Mn) | 7439-96-5 | 220 | 180 | 2000 | 180 | 155.6 | 180 |
| Nickel | 7440-02-0 | 30 | 150 | 140 | 30 | 18.21 | 30 |
| Potassium (K) | 2023695 | | | | 0 | 940 | 940 |
| Selenium | 7782-49-2 | 0.52 | 39 | 36 | 0.52 | 0.77 | 0.77 |
| Silver | 7440-22-4 | 2 | 39 | 36 | 2 | 0.66 | 2 |
| Sodium (Na) | 7440-23-5 | | | | 0 | 122.5 | 122.5 |
| Thallium | 7440-28-0 | 1 | 0.078 | | 0.078 | 0.14 | 0.14 |
| Vanadium | 7440-62-2 | 2 | 39 | | 2 | 46.28 | 46.28 |
| Zinc | 7440-66-6 | 46 | 2300 | 2200 | 46 | 42.36 | 46 |
| **PCBs** | | | | | | | |
| Aroclor 1016 | 12674-11-2 | 1 | 0.41 | | 0.41 | | 0.41 |
| Aroclor 1221 | 11104-28-2 | | 0.2 | | 0.2 | | 0.2 |
| Aroclor 1232 | 11141-16-5 | | 0.17 | | 0.17 | | 0.17 |
| Aroclor 1242 | 53469-21-9 | 0.041 | 0.23 | | 0.041 | | 0.041 |
| Aroclor 1248 | 12672-29-6 | 0.0072 | 0.23 | | 0.0072 | | 0.0072 |
| Aroclor 1254 | 11097-69-1 | 0.041 | 0.12 | | 0.041 | | 0.041 |
| Aroclor 1260 | 11096-82-5 | 0.88 | 0.24 | | 0.24 | | 0.24 |
| Aroclor 1262 | 37324-23-5 | | 0.24 | | 0.24 | | 0.24 |
| Aroclor 1268 | 11100-14-4 | | 0.24 | | 0.24 | | 0.24 |
| **SVOCs** | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.27 | 5.8 | | 0.27 | | 0.27 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.09 | 180 | 100 | 0.09 | | 0.09 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.08 | 180 | 17 | 0.08 | | 0.08 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.88 | 2.6 | 9.8 | 0.88 | | 0.88 |
| 1-Methylnaphthalene | 90-12-0 | | 18 | | 18 | 0.00578 | 18 |
| 2,4,5-Trichlorophenol | 95-95-4 | 4 | 630 | | 4 | | 4 |
| 2,4,6-Trichlorophenol | 88-06-2 | 10 | 6.3 | | 6.3 | | 6.3 |
| 2,4-Dichlorophenol | 120-83-2 | 0.05 | 19 | | 0.05 | | 0.05 |
| 2,4-Dimethylphenol | 105-67-9 | 0.04 | 130 | | 0.04 | | 0.04 |
| 2,4-Dinitrophenol | 51-28-5 | 0.15 | 13 | | 0.15 | | 0.15 |
| 2,4-Dinitrotoluene | 121-14-2 | 6 | 1.7 | | 1.7 | | 1.7 |
| 2,6-Dinitrotoluene | 606-20-2 | 4.1 | 0.36 | | 0.36 | | 0.36 |
| 2-Chloronaphthalene | 91-58-7 | | 480 | | 480 | | 480 |
| 2-Chlorophenol | 95-57-8 | 0.06 | 39 | | 0.06 | | 0.06 |
| 2-Methylnaphthalene | 91-57-6 | 16 | 24 | | 16 | 0.016 | 16 |
| 2-Methylphenol | 95-48-7 | 0.1 | 320 | 100 | 0.1 | | 0.1 |

**Table 2**
**Calculation of Selected Surface Soil Screening Values without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | Selected Ecological Criteria [1] (mg/kg) | EPA Residential THQ=0.1 [2] (mg/kg) | NYCRR 6-375 Residential SCO [3] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Surface Soil BTV [4] (mg/kg) | Selected Surface Soil Criteria [5] (mg/kg) |
|---|---|---|---|---|---|---|---|
| 2-Nitroaniline | 88-74-4 | 5.4 | 63 | | 5.4 | | 5.4 |
| 2-Nitrophenol | 88-75-5 | | 13 | | 13 | | 13 |
| 3,3-Dichlorobenzidine | 91-94-1 | 0.03 | 1.2 | | 0.03 | | 0.03 |
| 3-Nitroaniline | 99-09-2 | | 63 | | 63 | | 63 |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | | 0.51 | | 0.51 | | 0.51 |
| 4-Chloro-3-methylphenol | 59-50-7 | | 630 | | 630 | | 630 |
| 4-Chloroaniline | 106-47-8 | 1 | 2.7 | | 1 | | 1 |
| 4-Nitroaniline | 100-01-6 | | 25 | | 25 | | 25 |
| 4-Nitrophenol | 100-02-7 | 7 | 13 | | 7 | | 7 |
| Acenaphthene | 83-32-9 | 20 | 360 | 100 | 20 | 0.0305 | 20 |
| Acenaphthylene | 208-96-8 | 29 | 360 | 100 | 29 | 0.00072 | 29 |
| Anthracene | 120-12-7 | 6.8 | 1800 | 100 | 6.8 | 0.0481 | 6.8 |
| Benzo(a)anthracene | 56-55-3 | 0.8 | 1.13 | 1 | 0.8 | 0.138 | 0.8 |
| Benzo(a)pyrene | 50-32-8 | 2.6 | 0.115 | 1 | 0.115 | 0.247 | 0.247 |
| Benzo(b)fluoranthene | 205-99-2 | 18 | 1.15 | 1 | 1 | 0.334 | 1 |
| Benzo(g,h,i)perylene | 191-24-2 | 18 | 180 | 100 | 18 | 0.0664 | 18 |
| Benzo(k)fluoranthene | 207-08-9 | 18 | 11.5 | 1 | 1 | 0.12 | 1 |
| Benzoic acid | 65-85-0 | | 25000 | | 25000 | | 25000 |
| Benzyl Alcohol | 100-51-6 | | 630 | | 630 | | 630 |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1 | | 310 | | 310 | | 310 |
| Bis(2-chloroethoxy)methane | 111-91-1 | | 19 | | 19 | | 19 |
| Bis(2-chloroethyl)ether | 111-44-4 | | 0.23 | | 0.23 | | 0.23 |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 0.02 | 39 | | 0.02 | | 0.02 |
| Butyl benzyl phthalate | 85-68-7 | 0.59 | 290 | | 0.59 | | 0.59 |
| CARBAZOLE | 86-74-8 | | 240 | | 240 | | 240 |
| Chrysene | 218-01-9 | 2.4 | 115 | 1 | 1 | 0.13 | 1 |
| Dibenz(a,h)anthracene | 53-70-3 | 12 | 0.115 | 0.33 | 0.115 | 0.00072 | 0.115 |
| Dibenzofuran | 132-64-9 | 0.15 | 7.3 | 14 | 0.15 | | 0.15 |
| Diethyl phthalate | 84-66-2 | 0.23 | 5100 | | 0.23 | | 0.23 |
| Dimethyl phthalate | 131-11-3 | 38 | 5100 | | 38 | | 38 |
| Di-n-butyl phthalate | 84-74-2 | 0.011 | 630 | | 0.011 | | 0.011 |
| Di-n-octyl phthalate | 117-84-0 | 0.21 | 63 | | 0.21 | | 0.21 |
| Fluoranthene | 206-44-0 | 10 | 240 | 100 | 10 | 0.733 | 10 |
| Fluorene | 86-73-7 | 30 | 240 | 100 | 30 | 0.0304 | 30 |
| Hexachlorobenzene | 118-74-1 | 0.079 | 0.21 | 0.33 | 0.079 | | 0.079 |
| Hexachlorobutadiene | 87-68-3 | 0.1 | 1.2 | | 0.1 | | 0.1 |
| Hexachloroethane | 67-72-1 | 0.024 | 1.8 | | 0.024 | | 0.024 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 18 | 1.15 | 0.5 | 0.5 | 0.298 | 0.5 |
| Isophorone | 78-59-1 | | 570 | | 570 | | 570 |
| Naphthalene | 91-20-3 | 1 | 3.8 | 100 | 1 | 0.016 | 1 |
| n-Nitrosodimethylamine | 62-75-9 | | 0.002 | | 0.002 | | 0.002 |
| n-Nitroso-di-n-propylamine | 621-64-7 | | 0.078 | | 0.078 | | 0.078 |
| n-Nitrosodiphenylamine | 86-30-6 | 20 | 110 | | 20 | | 20 |
| Pentachlorophenol | 87-86-5 | 0.8 | 1 | 2.4 | 0.8 | | 0.8 |
| Phenanthrene | 85-01-8 | 5.5 | 1800 | 100 | 5.5 | 0.362 | 5.5 |
| Phenol | 108-95-2 | 30 | 1900 | 100 | 30 | | 30 |
| Pyrene | 129-00-0 | 10 | 180 | 100 | 10 | 0.278 | 10 |
| Total BaP PAHs Calculated | CALC-BaP TEQ | | 0.115 | | 0.115 | 0.493 | 0.493 |
| Total HMW PAHs Calculated | CALC-HMW PAHs | 1.1 | 0.115 | | 0.115 | 1.791 | 1.791 |
| Total LMW PAHs Calculated | CALC-LMW PAHs | 29 | 3.8 | | 3.8 | 1.026 | 3.8 |
| **VOCs** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.07 | 2 | | 0.07 | | 0.07 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.04 | 810 | 100 | 0.04 | | 0.04 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.19 | 0.6 | | 0.19 | | 0.19 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.32 | 0.15 | | 0.15 | | 0.15 |
| 1,1-Dichloroethane | 75-34-3 | 0.14 | 3.6 | 19 | 0.14 | | 0.14 |
| 1,1-Dichloroethene | 75-35-4 | 0.04 | 23 | 100 | 0.04 | | 0.04 |
| 1,2,3-Trichloropropane | 96-18-4 | | 0.0051 | | 0.0051 | | 0.0051 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.09 | 5.8 | 47 | 0.09 | | 0.09 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | 0.0053 | | 0.0053 | | 0.0053 |
| 1,2-Dibromoethane | 106-93-4 | | 0.036 | | 0.036 | | 0.036 |
| 1,2-Dichloroethane | 107-06-2 | 0.4 | 0.46 | 2.3 | 0.4 | | 0.4 |
| 1,2-Dichloropropane | 78-87-5 | 700 | 1 | | 1 | | 1 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.16 | 78 | 47 | 0.16 | | 0.16 |
| 2-Butanone | 78-93-3 | | 2700 | 100 | 100 | | 100 |

**Table 2**
**Calculation of Selected Surface Soil Screening Values without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | Selected Ecological Criteria [1] (mg/kg) | EPA Residential THQ=0.1 [2] (mg/kg) | NYCRR 6-375 Residential SCO [3] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Surface Soil BTV [4] (mg/kg) | Selected Surface Soil Criteria [5] (mg/kg) |
|---|---|---|---|---|---|---|---|
| 2-Hexanone | 591-78-6 | | 20 | | 20 | | 20 |
| 4-Isopropyltoluene | 99-87-6 | 0.18 | 190 | | 0.18 | | 0.18 |
| Acetone | 67-64-1 | | 6100 | 100 | 100 | | 100 |
| Benzene | 71-43-2 | 0.12 | 1.2 | 2.9 | 0.12 | | 0.12 |
| Bromodichloromethane | 75-27-4 | | 0.29 | | 0.29 | | 0.29 |
| Bromoform | 75-25-2 | 0.07 | 19 | | 0.07 | | 0.07 |
| Carbon disulfide | 75-15-0 | | 77 | | 77 | | 77 |
| Carbon tetrachloride | 56-23-5 | 0.05 | 0.65 | 1.4 | 0.05 | | 0.05 |
| Chlorobenzene | 108-90-7 | 40 | 28 | 100 | 28 | | 28 |
| Chloroethane | 75-00-3 | | 1400 | | 1400 | | 1400 |
| Chloroform | 67-66-3 | 0.05 | 0.32 | 10 | 0.05 | | 0.05 |
| Chloromethane | 74-87-3 | | 11 | | 11 | | 11 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.04 | 16 | 59 | 0.04 | | 0.04 |
| Dibromochloromethane | 124-48-1 | | 8.3 | | 8.3 | | 8.3 |
| Dichlorodifluoromethane | 75-71-8 | | 8.7 | | 8.7 | | 8.7 |
| Ethylbenzene | 100-41-4 | 0.27 | 5.8 | 30 | 0.27 | | 0.27 |
| Isopropylbenzene | 98-82-8 | 0.04 | 190 | | 0.04 | | 0.04 |
| Methyl tert-butyl ether | 1634-04-4 | | 47 | 62 | 47 | | 47 |
| Methylene chloride | 75-09-2 | 2.6 | 35 | 51 | 2.6 | | 2.6 |
| Naphthalene | 91-20-3 | 1 | 3.8 | 100 | 1 | 0.016 | 1 |
| n-Butylbenzene | 104-51-8 | | 390 | 100 | 100 | | 100 |
| n-Propylbenzene | 103-65-1 | | 380 | 100 | 100 | | 100 |
| sec-Butylbenzene | 135-98-8 | | 780 | 100 | 100 | | 100 |
| Styrene | 100-42-5 | 1.2 | 600 | | 1.2 | | 1.2 |
| tert-Butylbenzene | 98-06-6 | | 780 | 100 | 100 | | 100 |
| Tetrachloroethene | 127-18-4 | 0.06 | 8.1 | 5.5 | 0.06 | | 0.06 |
| Toluene | 108-88-3 | 0.15 | 490 | 100 | 0.15 | | 0.15 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.04 | 160 | 100 | 0.04 | | 0.04 |
| trans-1,3-Dichloropropene | 10061-02-6 | | 1.8 | | 1.8 | | 1.8 |
| trans-1,3-Dichloropropene | 542-75-6 | | 1.8 | | 1.8 | | 1.8 |
| Trichloroethene | 79-01-6 | 2 | 0.41 | 10 | 0.41 | | 0.41 |
| Trichlorofluoromethane | 75-69-4 | 52 | 2300 | | 52 | | 52 |
| Vinyl Acetate | 108-05-4 | | 91 | | 91 | | 91 |
| Vinyl chloride | 75-01-4 | 0.12 | 0.059 | 0.21 | 0.059 | | 0.059 |
| Xylenes (total) | 1330-20-7 | 0.1 | 58 | 100 | 0.1 | | 0.1 |

Notes:
All units are in milligrams per kilogram (mg/kg).
BTV - Background Threshold Value.
NYCRR - New York Codes, Rules, and Regulations.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
RSL - Regional Screening Level.
SCO - Soil Cleanup Objective.
THQ - Target Hazard Quotient.
USEPA - United States Environmental Protection Agency.
1. See Table 1 for ecological screening criteria selection.
2. USEPA Regional Screening Levels for Residential Soil with a Target Hazard Quotient (THQ) of 0.1 (USEPA 2016), with updated PAH RSLs calculated from recently-released updated benzo[a]pyrene toxicity values (USEPA 2017).
3. New York Codes, Rules, and Regulations (NYCRR) Chapter 6, Part 375-1 Remedial Program Residential Soil Cleanup Objectives (SCOs), Table 6.8(b) (NYCRR 2015).
4. Details on the development of the soil BTVs are presented in Appendix C of the Phase III Remedial Investigation Sampling and Analysis Plan.
5. Selected criteria is the higher of the Minimum of Agency Criteria and the BTV.

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**Table 3**
**Calculation of Selected Surface Soil Screening Values with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | Selected Ecological Criteria [1] (mg/kg) | EPA Residential THQ=0.1 [2] (mg/kg) | NYCRR 6-375 Residential SCO [3] (mg/kg) | NYSDEC CP-51 SCL for Gasoline and Fuel Oil [4] (mg/kg) | NYSDEC CP-51 Supplemental Residential SCO [5] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Surface Soil BTV [6] (mg/kg) | Selected Surface Soil Criteria [7] (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|
| **Explosives** | | | | | | | | | |
| 2,6-Dinitrotoluene | 606-20-2 | 4.1 | 0.36 | | | 1.03 | 0.36 | | 0.36 |
| Nitrobenzene | 98-95-3 | 4.9 | 5.1 | | | 3.7 | 3.7 | | 3.7 |
| **SVOCs** | | | | | | | | | |
| 2,4,5-Trichlorophenol | 95-95-4 | 4 | 630 | | | 100 | 4 | | 4 |
| 2,4-Dichlorophenol | 120-83-2 | 0.05 | 19 | | | 100 | 0.05 | | 0.05 |
| 2,4-Dinitrophenol | 51-28-5 | 0.15 | 13 | | | 100 | 0.15 | | 0.15 |
| 2,6-Dinitrotoluene | 606-20-2 | 4.1 | 0.36 | | | 1.03 | 0.36 | | 0.36 |
| 2-Chlorophenol | 95-57-8 | 0.06 | 39 | | | 100 | 0.06 | | 0.06 |
| 4-Chloroaniline | 106-47-8 | 1 | 2.7 | | | 100 | 1 | | 1 |
| Acenaphthene | 83-32-9 | 20 | 360 | 100 | 20 | | 20 | 0.0305 | 20 |
| Acenaphthylene | 208-96-8 | 29 | 360 | 100 | 100 | | 29 | 0.00072 | 29 |
| Anthracene | 120-12-7 | 6.8 | 1800 | 100 | 100 | | 6.8 | 0.0481 | 6.8 |
| Benzo(a)anthracene | 56-55-3 | 0.8 | 1.13 | 1 | 1 | | 0.8 | 0.138 | 0.8 |
| Benzo(a)pyrene | 50-32-8 | 2.6 | 0.115 | 1 | 1 | | 0.115 | 0.247 | 0.247 |
| Benzo(b)fluoranthene | 205-99-2 | 18 | 1.15 | 1 | 1 | | 1 | 0.334 | 1 |
| Benzo(g,h,i)perylene | 191-24-2 | 18 | 180 | 100 | 100 | | 18 | 0.0664 | 18 |
| Benzo(k)fluoranthene | 207-08-9 | 18 | 11.5 | 1 | 0.8 | | 0.8 | 0.12 | 0.8 |
| Benzoic acid | 65-85-0 | | 25000 | | | 100 | 100 | | 100 |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 0.02 | 39 | | | 50 | 0.02 | | 0.02 |
| Butyl benzyl phthalate | 85-68-7 | 0.59 | 290 | | | 100 | 0.59 | | 0.59 |
| Chrysene | 218-01-9 | 2.4 | 115 | 1 | 1 | | 1 | 0.13 | 1 |
| Dibenz(a,h)anthracene | 53-70-3 | 12 | 0.115 | 0.33 | 0.33 | | 0.115 | 0.00072 | 0.115 |
| Diethyl phthalate | 84-66-2 | 0.23 | 5100 | | | 100 | 0.23 | | 0.23 |
| Dimethyl phthalate | 131-11-3 | 38 | 5100 | | | 100 | 38 | | 38 |
| Di-n-butyl phthalate | 84-74-2 | 0.011 | 630 | | | 100 | 0.011 | | 0.011 |
| Di-n-octyl phthalate | 117-84-0 | 0.21 | 63 | | | 100 | 0.21 | | 0.21 |
| Fluoranthene | 206-44-0 | 10 | 240 | 100 | 100 | | 10 | 0.733 | 10 |
| Fluorene | 86-73-7 | 30 | 240 | 100 | 30 | | 30 | 0.0304 | 30 |
| Hexachlorobenzene | 118-74-1 | 0.079 | 0.21 | 0.33 | | 0.41 | 0.079 | | 0.079 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 18 | 1.15 | 0.5 | 0.5 | | 0.5 | 0.298 | 0.5 |
| Isophorone | 78-59-1 | | 570 | | | 100 | 100 | | 100 |
| Nitrobenzene | 98-95-3 | 4.9 | 5.1 | | | 3.7 | 3.7 | | 3.7 |
| Phenanthrene | 85-01-8 | 5.5 | 1800 | 100 | 100 | | 5.5 | 0.362 | 5.5 |
| Pyrene | 129-00-0 | 10 | 180 | 100 | 100 | | 10 | 0.278 | 10 |
| Total BaP PAHs Calculated | CALC-BaP TEQ | | 0.115 | | 1 | | 0.115 | 0.493 | 0.493 |
| Total HMW PAHs Calculated | CALC-HMW PAHs | 1.1 | 0.115 | | 1 | | 0.115 | 1.791 | 1.791 |
| Total LMW PAHs Calculated | CALC-LMW PAHs | 29 | 3.8 | | 12 | | 3.8 | 1.026 | 3.8 |
| **VOCs** | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.09 | 5.8 | 47 | 3.6 | | 0.09 | | 0.09 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.16 | 78 | 47 | 8.4 | | 0.16 | | 0.16 |
| 4-Isopropyltoluene | 99-87-6 | 0.18 | 190 | | 10 | | 0.18 | | 0.18 |
| Benzene | 71-43-2 | 0.12 | 1.2 | 2.9 | 0.06 | | 0.06 | | 0.06 |
| Ethylbenzene | 100-41-4 | 0.27 | 5.8 | 30 | 1 | | 0.27 | | 0.27 |
| Isopropylbenzene | 98-82-8 | 0.04 | 190 | | 2.3 | 100 | 0.04 | | 0.04 |
| Methyl tert-butyl ether | 1634-04-4 | | 47 | 62 | 0.93 | | 0.93 | | 0.93 |
| Naphthalene | 91-20-3 | 1 | 3.8 | 100 | 12 | | 1 | 0.016 | 1 |
| n-Butylbenzene | 104-51-8 | | 390 | 100 | 12 | | 12 | | 12 |
| n-Propylbenzene | 103-65-1 | | 380 | 100 | 3.9 | | 3.9 | | 3.9 |

**Table 3**
**Calculation of Selected Surface Soil Screening Values with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | Selected Ecological Criteria [1] (mg/kg) | EPA Residential THQ=0.1 [2] (mg/kg) | NYCRR 6-375 Residential SCO [3] (mg/kg) | NYSDEC CP-51 SCL for Gasoline and Fuel Oil [4] (mg/kg) | NYSDEC CP-51 Supplemental Residential SCO [5] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Surface Soil BTV [6] (mg/kg) | Selected Surface Soil Criteria [7] (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 135-98-8 | | 780 | 100 | 11 | | 11 | | 11 |
| tert-Butylbenzene | 98-06-6 | | 780 | 100 | 5.9 | | 5.9 | | 5.9 |
| Toluene | 108-88-3 | 0.15 | 490 | 100 | 0.7 | | 0.15 | | 0.15 |
| Xylenes (total) | 1330-20-7 | 0.1 | 58 | 100 | 0.26 | | 0.1 | | 0.1 |

Notes:
All units are in milligrams per kilogram (mg/kg).
BTV - Background Threshold Value.
NYCRR - New York Codes, Rules, and Regulations.
NYSDEC - New York State Department of Environmental Conservation.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SCL - Soil Cleanup Level.
SCO - Soil Cleanup Objective.
RSL - Regional Screening Level.
THQ - Target Hazard Quotient.
USEPA - United States Environmental Protection Agency.
1. See Table 1 for ecological screening criteria selection.
2. USEPA Regional Screening Levels for Residential Soil with a Target Hazard Quotient (THQ) of 0.1 (USEPA 2016), with updated PAH RSLs calculated from recently-released updated benzo[a]pyrene toxicity values (USEPA 2017).
3. New York Codes, Rules, and Regulations (NYCRR) Chapter 6, Part 375-1 Remedial Program Residential Soil Cleanup Objectives (SCOs), Table 6.8(b) (NYCRR 2015).
4. New York State Department of Environmental Conservation (NYSDEC) CP-51 Soil Cleanup Guidance Soil Cleanup Levels (SCLs) for Gasoline and Fuel Oil, Tables 2 and 3 (NYSDEC 2010a).
5. New York State Department of Environmental Conservation (NYSDEC) CP-51 Soil Cleanup Guidance Supplemental Residential SCOs, Table 1 (NYSDEC 2010a).
6. Details on the development of the soil BTVs are presented in Appendix C of the Phase III Remedial Investigation Sampling and Analysis Plan.
7. Selected criteria is the higher of the Minimum of Agency Criteria and the BTV.

**Table 4**
**Calculation of Selected Subsurface Soil Screening Values without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | EPA Residential THQ=0.1 [1] (mg/kg) | NYCRR 6-375 Residential SCO [2] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Subsurface BTV [3] (mg/kg) | Selected Subsurface Soil Criteria [4] (mg/kg) |
|---|---|---|---|---|---|---|
| **Explosives** | | | | | | |
| 1,3,5-Trinitrobenzene | 99-35-4 | 220 | | 220 | | 220 |
| 1,3-Dinitrobenzene | 99-65-0 | 0.63 | | 0.63 | | 0.63 |
| 2,4,6-Trinitrotoluene | 118-96-7 | 3.6 | | 3.6 | | 3.6 |
| 2,4-Dinitrotoluene | 121-14-2 | 1.7 | | 1.7 | | 1.7 |
| 2,6-Dinitrotoluene | 606-20-2 | 0.36 | | 0.36 | | 0.36 |
| 2-Amino-4,6-dinitrotoluene | 35572-78-2 | 15 | | 15 | | 15 |
| 2-Nitrotoluene | 88-72-2 | 3.2 | | 3.2 | | 3.2 |
| 3-Nitrotoluene | 99-08-1 | 0.63 | | 0.63 | | 0.63 |
| 4-Amino-2,6-Dinitro Toluene | 19406-51-0 | 15 | | 15 | | 15 |
| 4-Nitrotoluene | 99-99-0 | 25 | | 25 | | 25 |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 121-82-4 | 6.1 | | 6.1 | | 6.1 |
| Methyl-2,4,6-trinitrophenylnitramine | 479-45-8 | 16 | | 16 | | 16 |
| Nitrobenzene | 98-95-3 | 5.1 | | 5.1 | | 5.1 |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 2691-41-0 | 390 | | 390 | | 390 |
| **Metals** | | | | | | |
| Aluminum | 7429-90-5 | 7700 | | 7700 | 27822 | 27822 |
| Antimony | 7440-36-0 | 3.1 | | 3.1 | 10.3 | 10.3 |
| Arsenic | 7440-38-2 | 0.68 | 16 | 0.68 | 3.383 | 3.383 |
| Barium | 7440-39-3 | 1500 | 350 | 350 | 121.5 | 350 |
| Beryllium | 7440-41-7 | 16 | 14 | 14 | 0.815 | 14 |
| Cadmium | 7440-43-9 | 7.1 | 2.5 | 2.5 | 0.17 | 2.5 |
| Calcium (Ca) | 7440-70-2 | | | | 751.8 | 751.8 |
| Chromium | 7440-47-3 | 0.3 | | 0.3 | 33.92 | 33.92 |
| Cobalt | 7440-48-4 | 2.3 | | 2.3 | 10.24 | 10.24 |
| Copper | 7440-50-8 | 310 | 270 | 270 | 57.2 | 270 |
| Iron (Fe) | 7439-89-6 | 5500 | | 5500 | 19000 | 19000 |
| Lead | 7439-92-1 | 400 | 400 | 400 | 5.876 | 400 |
| Magnesium (Mg) | 7439-95-4 | | | | 8315 | 8315 |
| Manganese (Mn) | 7439-96-5 | 180 | 2000 | 180 | 656.8 | 656.8 |
| Nickel | 7440-02-0 | 150 | 140 | 140 | 18.21 | 140 |
| Potassium (K) | 2023695 | | | | 5660 | 5660 |
| Selenium | 7782-49-2 | 39 | 36 | 36 | 0.77 | 36 |
| Silver | 7440-22-4 | 39 | 36 | 36 | 0.66 | 36 |
| Sodium (Na) | 7440-23-5 | | | | 320 | 320 |
| Thallium | 7440-28-0 | 0.078 | | 0.078 | 0.414 | 0.414 |
| Vanadium | 7440-62-2 | 39 | | 39 | 46.28 | 46.28 |
| Zinc | 7440-66-6 | 2300 | 2200 | 2200 | 42.36 | 2200 |
| **PCBs** | | | | | | |
| Aroclor 1016 | 12674-11-2 | 0.41 | | 0.41 | | 0.41 |
| Aroclor 1221 | 11104-28-2 | 0.2 | | 0.2 | | 0.2 |
| Aroclor 1232 | 11141-16-5 | 0.17 | | 0.17 | | 0.17 |
| Aroclor 1242 | 53469-21-9 | 0.23 | | 0.23 | | 0.23 |
| Aroclor 1248 | 12672-29-6 | 0.23 | | 0.23 | | 0.23 |
| Aroclor 1254 | 11097-69-1 | 0.12 | | 0.12 | | 0.12 |
| Aroclor 1260 | 11096-82-5 | 0.24 | | 0.24 | | 0.24 |
| Aroclor 1262 | 37324-23-5 | 0.24 | | 0.24 | | 0.24 |
| Aroclor 1268 | 11100-14-4 | 0.24 | | 0.24 | | 0.24 |
| **SVOCs** | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5.8 | | 5.8 | | 5.8 |
| 1,2-Dichlorobenzene | 95-50-1 | 180 | 100 | 100 | | 100 |
| 1,3-Dichlorobenzene | 541-73-1 | 180 | 17 | 17 | | 17 |
| 1,4-Dichlorobenzene | 106-46-7 | 2.6 | 9.8 | 2.6 | | 2.6 |
| 1-Methylnaphthalene | 90-12-0 | 18 | | 18 | 0.00069 | 18 |
| 2,4,5-Trichlorophenol | 95-95-4 | 630 | | 630 | | 630 |
| 2,4,6-Trichlorophenol | 88-06-2 | 6.3 | | 6.3 | | 6.3 |
| 2,4-Dichlorophenol | 120-83-2 | 19 | | 19 | | 19 |
| 2,4-Dimethylphenol | 105-67-9 | 130 | | 130 | | 130 |
| 2,4-Dinitrophenol | 51-28-5 | 13 | | 13 | | 13 |
| 2,4-Dinitrotoluene | 121-14-2 | 1.7 | | 1.7 | | 1.7 |
| 2,6-Dinitrotoluene | 606-20-2 | 0.36 | | 0.36 | | 0.36 |
| 2-Chloronaphthalene | 91-58-7 | 480 | | 480 | | 480 |
| 2-Chlorophenol | 95-57-8 | 39 | | 39 | | 39 |
| 2-Methylnaphthalene | 91-57-6 | 24 | | 24 | 0.00069 | 24 |

**Table 4**
**Calculation of Selected Subsurface Soil Screening Values without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | EPA Residential THQ=0.1 [1] (mg/kg) | NYCRR 6-375 Residential SCO [2] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Subsurface BTV [3] (mg/kg) | Selected Subsurface Soil Criteria [4] (mg/kg) |
|---|---|---|---|---|---|---|
| 2-Methylphenol | 95-48-7 | 320 | 100 | 100 | | 100 |
| 2-Nitroaniline | 88-74-4 | 63 | | 63 | | 63 |
| 2-Nitrophenol | 88-75-5 | 13 | | 13 | | 13 |
| 3,3-Dichlorobenzidine | 91-94-1 | 1.2 | | 1.2 | | 1.2 |
| 3-Nitroaniline | 99-09-2 | 63 | | 63 | | 63 |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 0.51 | | 0.51 | | 0.51 |
| 4-Chloro-3-methylphenol | 59-50-7 | 630 | | 630 | | 630 |
| 4-Chloroaniline | 106-47-8 | 2.7 | | 2.7 | | 2.7 |
| 4-Nitroaniline | 100-01-6 | 25 | | 25 | | 25 |
| 4-Nitrophenol | 100-02-7 | 13 | | 13 | | 13 |
| Acenaphthene | 83-32-9 | 360 | 100 | 100 | 0.00069 | 100 |
| Acenaphthylene | 208-96-8 | 360 | 100 | 100 | 0.00069 | 100 |
| Anthracene | 120-12-7 | 1800 | 100 | 100 | 0.00069 | 100 |
| Benzo(a)anthracene | 56-55-3 | 1.13 | 1 | 1 | 0.00069 | 1 |
| Benzo(a)pyrene | 50-32-8 | 0.115 | 1 | 0.115 | 0.00069 | 0.115 |
| Benzo(b)fluoranthene | 205-99-2 | 1.15 | 1 | 1 | 0.00069 | 1 |
| Benzo(g,h,i)perylene | 191-24-2 | 180 | 100 | 100 | 0.00069 | 100 |
| Benzo(k)fluoranthene | 207-08-9 | 11.5 | 1 | 1 | 0.00069 | 1 |
| Benzoic acid | 65-85-0 | 25000 | | 25000 | | 25000 |
| Benzyl Alcohol | 100-51-6 | 630 | | 630 | | 630 |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1 | 310 | | 310 | | 310 |
| Bis(2-chloroethoxy)methane | 111-91-1 | 19 | | 19 | | 19 |
| Bis(2-chloroethyl)ether | 111-44-4 | 0.23 | | 0.23 | | 0.23 |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 39 | | 39 | | 39 |
| Butyl benzyl phthalate | 85-68-7 | 290 | | 290 | | 290 |
| CARBAZOLE | 86-74-8 | 240 | | 240 | | 240 |
| Chrysene | 218-01-9 | 115 | 1 | 1 | 0.00069 | 1 |
| Dibenz(a,h)anthracene | 53-70-3 | 0.115 | 0.33 | 0.115 | 0.00069 | 0.115 |
| Dibenzofuran | 132-64-9 | 7.3 | 14 | 7.3 | | 7.3 |
| Diethyl phthalate | 84-66-2 | 5100 | | 5100 | | 5100 |
| Dimethyl phthalate | 131-11-3 | 5100 | | 5100 | | 5100 |
| Di-n-butyl phthalate | 84-74-2 | 630 | | 630 | | 630 |
| Di-n-octyl phthalate | 117-84-0 | 63 | | 63 | | 63 |
| Fluoranthene | 206-44-0 | 240 | 100 | 100 | 0.00069 | 100 |
| Fluorene | 86-73-7 | 240 | 100 | 100 | 0.00069 | 100 |
| Hexachlorobenzene | 118-74-1 | 0.21 | 0.33 | 0.21 | | 0.21 |
| Hexachlorobutadiene | 87-68-3 | 1.2 | | 1.2 | | 1.2 |
| Hexachloroethane | 67-72-1 | 1.8 | | 1.8 | | 1.8 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 1.15 | 0.5 | 0.5 | 0.00069 | 0.5 |
| Isophorone | 78-59-1 | 570 | | 570 | | 570 |
| Naphthalene | 91-20-3 | 3.8 | 100 | 3.8 | 0.00069 | 3.8 |
| Nitrobenzene | 98-95-3 | 5.1 | | 5.1 | | 5.1 |
| n-Nitrosodimethylamine | 62-75-9 | 0.002 | | 0.002 | | 0.002 |
| n-Nitroso-di-n-propylamine | 621-64-7 | 0.078 | | 0.078 | | 0.078 |
| n-Nitrosodiphenylamine | 86-30-6 | 110 | | 110 | | 110 |
| Pentachlorophenol | 87-86-5 | 1 | 2.4 | 1 | | 1 |
| Phenanthrene | 85-01-8 | 1800 | 100 | 100 | 0.00069 | 100 |
| Phenol | 108-95-2 | 1900 | 100 | 100 | | 100 |
| Pyrene | 129-00-0 | 180 | 100 | 100 | 0.00069 | 100 |
| Total BaP PAHs Calculated | CALC-BaP TEQ | 0.115 | | 0.115 | 0.00296 | 0.115 |
| **VOCs** | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 2 | | 2 | | 2 |
| 1,1,1-Trichloroethane | 71-55-6 | 810 | 100 | 100 | | 100 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.6 | | 0.6 | | 0.6 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.15 | | 0.15 | | 0.15 |
| 1,1-Dichloroethane | 75-34-3 | 3.6 | 19 | 3.6 | | 3.6 |
| 1,1-Dichloroethene | 75-35-4 | 23 | 100 | 23 | | 23 |
| 1,2,3-Trichloropropane | 96-18-4 | 0.0051 | | 0.0051 | | 0.0051 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.8 | 47 | 5.8 | | 5.8 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.0053 | | 0.0053 | | 0.0053 |
| 1,2-Dibromoethane | 106-93-4 | 0.036 | | 0.036 | | 0.036 |
| 1,2-Dichloroethane | 107-06-2 | 0.46 | 2.3 | 0.46 | | 0.46 |
| 1,2-Dichloropropane | 78-87-5 | 1 | | 1 | | 1 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 78 | 47 | 47 | | 47 |
| 2-Butanone | 78-93-3 | 2700 | 100 | 100 | | 100 |

**Table 4**
**Calculation of Selected Subsurface Soil Screening Values without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | EPA Residential THQ=0.1 [1] (mg/kg) | NYCRR 6-375 Residential SCO [2] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Subsurface BTV [3] (mg/kg) | Selected Subsurface Soil Criteria [4] (mg/kg) |
|---|---|---|---|---|---|---|
| 2-Hexanone | 591-78-6 | 20 | | 20 | | 20 |
| 4-Isopropyltoluene | 99-87-6 | 190 | | 190 | | 190 |
| Acetone | 67-64-1 | 6100 | 100 | 100 | | 100 |
| Benzene | 71-43-2 | 1.2 | 2.9 | 1.2 | | 1.2 |
| Bromodichloromethane | 75-27-4 | 0.29 | | 0.29 | | 0.29 |
| Bromoform | 75-25-2 | 19 | | 19 | | 19 |
| Carbon disulfide | 75-15-0 | 77 | | 77 | | 77 |
| Carbon tetrachloride | 56-23-5 | 0.65 | 1.4 | 0.65 | | 0.65 |
| Chlorobenzene | 108-90-7 | 28 | 100 | 28 | | 28 |
| Chloroethane | 75-00-3 | 1400 | | 1400 | | 1400 |
| Chloroform | 67-66-3 | 0.32 | 10 | 0.32 | | 0.32 |
| Chloromethane | 74-87-3 | 11 | | 11 | | 11 |
| cis-1,2-Dichloroethene | 156-59-2 | 16 | 59 | 16 | | 16 |
| Dibromochloromethane | 124-48-1 | 8.3 | | 8.3 | | 8.3 |
| Dichlorodifluoromethane | 75-71-8 | 8.7 | | 8.7 | | 8.7 |
| Ethylbenzene | 100-41-4 | 5.8 | 30 | 5.8 | | 5.8 |
| Isopropylbenzene | 98-82-8 | 190 | | 190 | | 190 |
| Methyl tert-butyl ether | 1634-04-4 | 47 | 62 | 47 | | 47 |
| Methylene chloride | 75-09-2 | 35 | 51 | 35 | | 35 |
| Naphthalene | 91-20-3 | 3.8 | 100 | 3.8 | 0.00069 | 3.8 |
| n-Butylbenzene | 104-51-8 | 390 | 100 | 100 | | 100 |
| n-Propylbenzene | 103-65-1 | 380 | 100 | 100 | | 100 |
| sec-Butylbenzene | 135-98-8 | 780 | 100 | 100 | | 100 |
| Styrene | 100-42-5 | 600 | | 600 | | 600 |
| tert-Butylbenzene | 98-06-6 | 780 | 100 | 100 | | 100 |
| Tetrachloroethene | 127-18-4 | 8.1 | 5.5 | 5.5 | | 5.5 |
| Toluene | 108-88-3 | 490 | 100 | 100 | | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 160 | 100 | 100 | | 100 |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.8 | | 1.8 | | 1.8 |
| Trichloroethene | 79-01-6 | 0.41 | 10 | 0.41 | | 0.41 |
| Trichlorofluoromethane | 75-69-4 | 2300 | | 2300 | | 2300 |
| Vinyl Acetate | 108-05-4 | 91 | | 91 | | 91 |
| Vinyl chloride | 75-01-4 | 0.059 | 0.21 | 0.059 | | 0.059 |
| Xylenes (total) | 1330-20-7 | 58 | 100 | 58 | | 58 |

Notes:
All units are in milligrams per kilogram (mg/kg).
BTV - Background Threshold Value.
NYCRR - New York Codes, Rules, and Regulations.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
RSL - Regional Screening Level.
SCO - Soil Cleanup Objective.
THQ - Target Hazard Quotient.
USEPA - United States Environmental Protection Agency.
1. USEPA Regional Screening Levels for Residential Soil with a Target Hazard Quotient (THQ) of 0.1 (USEPA 2016), with updated PAH RSLs calculated from recently-released updated benzo[a]pyrene toxicity values (USEPA 2017).
2. New York Codes, Rules, and Regulations (NYCRR) Chapter 6, Part 375-1 Remedial Program Residential Soil Cleanup Objectives (SCOs), Table 6.8(b) (NYCRR 2015).
3. Details on the development of the soil BTVs are presented in Appendix C of the Phase III Remedial Investigation Sampling and Analysis Plan.
4. Selected criteria is the higher of the Minimum of Agency Criteria and the BTV.

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**Table 5**
**Calculation of Selected Subsurface Soil Screening Values with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | EPA Residential THQ=0.1 [1] (mg/kg) | NYCRR 6-375 Residential SCO [2] (mg/kg) | NYSDEC CP-51 SCL for Gasoline and Fuel Oil [3] (mg/kg) | NYSDEC CP-51 Supplemental Residential SCO [4] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Subsurface Background BTV [5] (mg/kg) | Selected Subsurface Soil Criteria [6] (mg/kg) |
|---|---|---|---|---|---|---|---|---|
| **Explosives** | | | | | | | | |
| 2,6-Dinitrotoluene | 606-20-2 | 0.36 | | | 1.03 | 0.36 | | 0.36 |
| Nitrobenzene | 98-95-3 | 5.1 | | | 3.7 | 3.7 | | 3.7 |
| **Metals** | | | | | | | | |
| Arsenic | 7440-38-2 | 0.68 | 16 | | | 0.68 | 3.383 | 3.383 |
| Barium | 7440-39-3 | 1500 | 350 | | | 350 | 121.5 | 350 |
| Beryllium | 7440-41-7 | 16 | 14 | | | 14 | 0.815 | 14 |
| Cadmium | 7440-43-9 | 7.1 | 2.5 | | | 2.5 | 0.17 | 2.5 |
| Chromium(III), Insoluble Salts | 16065-83-1 | 12000 | 36 | | | 36 | | 36 |
| Chromium(VI) | 18540-29-9 | 0.3 | 22 | | | 0.3 | | 0.3 |
| Cobalt | 7440-48-4 | 2.3 | | | 30 | 2.3 | 10.24 | 10.24 |
| Copper | 7440-50-8 | 310 | 270 | | | 270 | 57.2 | 270 |
| Iron (Fe) | 7439-89-6 | 5500 | | | 2000 | 2000 | 19000 | 19000 |
| Lead | 7439-92-1 | 400 | 400 | | | 400 | 5.876 | 400 |
| Manganese (Mn) | 7439-96-5 | 180 | 2000 | | | 180 | 656.8 | 656.8 |
| Mercury | 7439-97-6 | 1.1 | 0.81 | | | 0.81 | | 0.81 |
| Nickel | 7440-02-0 | 150 | 140 | | | 140 | 18.21 | 140 |
| Selenium | 7782-49-2 | 39 | 36 | | | 36 | 0.77 | 36 |
| Silver | 7440-22-4 | 39 | 36 | | | 36 | 0.66 | 36 |
| Vanadium | 7440-62-2 | 39 | | | 100 | 39 | 46.28 | 46.28 |
| Zinc | 7440-66-6 | 2300 | 2200 | | | 2200 | 42.36 | 2200 |
| **SVOCs** | | | | | | | | |
| 1,2-Dichlorobenzene | 95-50-1 | 180 | 100 | | | 100 | | 100 |
| 1,3-Dichlorobenzene | 541-73-1 | 180 | 17 | | | 17 | | 17 |
| 1,4-Dichlorobenzene | 106-46-7 | 2.6 | 9.8 | | | 2.6 | | 2.6 |
| 2,4,5-Trichlorophenol | 95-95-4 | 630 | | | 100 | 100 | | 100 |
| 2,4-Dichlorophenol | 120-83-2 | 19 | | | 100 | 19 | | 19 |
| 2,4-Dinitrophenol | 51-28-5 | 13 | | | 100 | 13 | | 13 |
| 2-Chlorophenol | 95-57-8 | 39 | | | 100 | 39 | | 39 |
| 2-Methylnaphthalene | 91-57-6 | 24 | | | 0.41 | 0.41 | 0.00069 | 0.41 |
| 2-Methylphenol | 95-48-7 | 320 | 100 | | | 100 | | 100 |
| 4-Chloroaniline | 106-47-8 | 2.7 | | | 100 | 2.7 | | 2.7 |
| Acenaphthene | 83-32-9 | 360 | 100 | 20 | | 20 | 0.00069 | 20 |
| Acenaphthylene | 208-96-8 | 360 | 100 | 100 | | 100 | 0.00069 | 100 |
| Anthracene | 120-12-7 | 1800 | 100 | 100 | | 100 | 0.00069 | 100 |
| Benzo(a)anthracene | 56-55-3 | 1.13 | 1 | 1 | | 1 | 0.00069 | 1 |
| Benzo(a)pyrene | 50-32-8 | 0.115 | 1 | 1 | | 0.115 | 0.00069 | 0.115 |
| Benzo(b)fluoranthene | 205-99-2 | 1.15 | 1 | 1 | | 1 | 0.00069 | 1 |
| Benzo(g,h,i)perylene | 191-24-2 | 180 | 100 | 100 | | 100 | 0.00069 | 100 |
| Benzo(k)fluoranthene | 207-08-9 | 11.5 | 1 | 0.8 | | 0.8 | 0.00069 | 0.8 |
| Benzoic acid | 65-85-0 | 25000 | | | 100 | 100 | | 100 |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 39 | | | 50 | 39 | | 39 |
| Butyl benzyl phthalate | 85-68-7 | 290 | | | 100 | 100 | | 100 |
| Chrysene | 218-01-9 | 115 | 1 | 1 | | 1 | 0.00069 | 1 |
| Dibenz(a,h)anthracene | 53-70-3 | 0.115 | 0.33 | 0.33 | | 0.115 | 0.00069 | 0.115 |
| Diethyl phthalate | 84-66-2 | 5100 | | | 100 | 100 | | 100 |
| Dimethyl phthalate | 131-11-3 | 5100 | | | 100 | 100 | | 100 |
| Di-n-butyl phthalate | 84-74-2 | 630 | | | 100 | 100 | | 100 |
| Di-n-octyl phthalate | 117-84-0 | 63 | | | 100 | 63 | | 63 |
| Fluoranthene | 206-44-0 | 240 | 100 | 100 | | 100 | 0.00069 | 100 |
| Fluorene | 86-73-7 | 240 | 100 | 30 | | 30 | 0.00069 | 30 |
| Hexachlorobenzene | 118-74-1 | 0.21 | 0.33 | | 0.41 | 0.21 | | 0.21 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 1.15 | 0.5 | 0.5 | | 0.5 | 0.00069 | 0.5 |
| Isophorone | 78-59-1 | 570 | | | 100 | 100 | | 100 |
| Naphthalene | 91-20-3 | 3.8 | 100 | 12 | | 3.8 | 0.00069 | 3.8 |
| Pentachlorophenol | 87-86-5 | 1 | 2.4 | | | 1 | | 1 |
| Phenanthrene | 85-01-8 | 1800 | 100 | 100 | | 100 | 0.00069 | 100 |
| Phenol | 108-95-2 | 1900 | 100 | | | 100 | | 100 |
| Pyrene | 129-00-0 | 180 | 100 | 100 | | 100 | 0.00069 | 100 |
| Total BaP PAHs Calculated | CALC-BaP TEQ | 0.115 | | 1 | | 0.115 | 0.00296 | 0.115 |

**Table 5**
**Calculation of Selected Subsurface Soil Screening Values with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| Chemical Name | CAS Number | EPA Residential THQ=0.1 [1] (mg/kg) | NYCRR 6-375 Residential SCO [2] (mg/kg) | NYSDEC CP-51 SCL for Gasoline and Fuel Oil [3] (mg/kg) | NYSDEC CP-51 Supplemental Residential SCO [4] (mg/kg) | Minimum of Agency Criteria (mg/kg) | Subsurface Background BTV [5] (mg/kg) | Selected Subsurface Soil Criteria [6] (mg/kg) |
|---|---|---|---|---|---|---|---|---|
| **VOCs** | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 810 | 100 | | | 100 | | 100 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.6 | | | 35 | 0.6 | | 0.6 |
| 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113) | 76-13-1 | 4000 | | | 100 | 100 | | 100 |
| 1,1-Dichloroethane | 75-34-3 | 3.6 | 19 | | | 3.6 | | 3.6 |
| 1,1-Dichloroethene | 75-35-4 | 23 | 100 | | | 23 | | 23 |
| 1,2,3-Trichloropropane | 96-18-4 | 0.0051 | | | 80 | 0.0051 | | 0.0051 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.8 | 47 | 3.6 | | 3.6 | | 3.6 |
| 1,2-Dichloroethane | 107-06-2 | 0.46 | 2.3 | | | 0.46 | | 0.46 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 78 | 47 | 8.4 | | 8.4 | | 8.4 |
| 1,4-Dioxane | 123-91-1 | 5.3 | 9.8 | | | 5.3 | | 5.3 |
| 2-Butanone | 78-93-3 | 2700 | 100 | | 100 | 100 | | 100 |
| 4-Isopropyltoluene | 99-87-6 | 190 | | 10 | | 10 | | 10 |
| Acetone | 67-64-1 | 6100 | 100 | | | 100 | | 100 |
| Benzene | 71-43-2 | 1.2 | 2.9 | 0.06 | | 0.06 | | 0.06 |
| Carbon disulfide | 75-15-0 | 77 | | | 100 | 77 | | 77 |
| Carbon tetrachloride | 56-23-5 | 0.65 | 1.4 | | | 0.65 | | 0.65 |
| Chlorobenzene | 108-90-7 | 28 | 100 | | | 28 | | 28 |
| Chloroform | 67-66-3 | 0.32 | 10 | | | 0.32 | | 0.32 |
| cis-1,2-Dichloroethene | 156-59-2 | 16 | 59 | | | 16 | | 16 |
| Ethylbenzene | 100-41-4 | 5.8 | 30 | 1 | | 1 | | 1 |
| Isopropylbenzene | 98-82-8 | 190 | | 2.3 | 100 | 2.3 | | 2.3 |
| Methyl tert-butyl ether | 1634-04-4 | 47 | 62 | 0.93 | | 0.93 | | 0.93 |
| Methylene chloride | 75-09-2 | 35 | 51 | | | 35 | | 35 |
| n-Butylbenzene | 104-51-8 | 390 | 100 | 12 | | 12 | | 12 |
| n-Propylbenzene | 103-65-1 | 380 | 100 | 3.9 | | 3.9 | | 3.9 |
| sec-Butylbenzene | 135-98-8 | 780 | 100 | 11 | | 11 | | 11 |
| tert-Butylbenzene | 98-06-6 | 780 | 100 | 5.9 | | 5.9 | | 5.9 |
| Tetrachloroethene | 127-18-4 | 8.1 | 5.5 | | | 5.5 | | 5.5 |
| Toluene | 108-88-3 | 490 | 100 | 0.7 | | 0.7 | | 0.7 |
| trans-1,2-Dichloroethene | 156-60-5 | 160 | 100 | | | 100 | | 100 |
| Trichloroethene | 79-01-6 | 0.41 | 10 | | | 0.41 | | 0.41 |
| Vinyl chloride | 75-01-4 | 0.059 | 0.21 | | | 0.059 | | 0.059 |
| Xylenes (total) | 1330-20-7 | 58 | 100 | 0.26 | | 0.26 | | 0.26 |

Notes:
All units are in milligrams per kilogram (mg/kg) unless otherwise noted
BTV - Background Threshold Value.
NYCRR - New York Codes, Rules, and Regulations.
NYSDEC - New York State Department of Environmental Conservation.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
RSL - Regional Screening Level.
SCL - Soil Cleanup Level.
SCO - Soil Cleanup Objective.
THQ - Target Hazard Quotient.
USEPA - United States Environmental Protection Agency.
1. USEPA Regional Screening Levels for Residential Soil with a Target Hazard Quotient (THQ) of 0.1 (USEPA 2016), with updated PAH RSLs calculated from recently-released updated benzo[a]pyrene toxicity values (USEPA 2017).
2. New York Codes, Rules, and Regulations (NYCRR) Chapter 6, Part 375-1 Remedial Program Residential Soil Cleanup Objectives (SCOs), Table 6.8(b) (NYCRR 2015).
3. New York State Department of Environmental Conservation (NYSDEC) CP-51 Soil Cleanup Guidance Soil Cleanup Levels (SCLs) for Gasoline and Fuel Oil, Tables 2 and 3 (NYSDEC 2010a).
4. New York State Department of Environmental Conservation (NYSDEC) CP-51 Soil Cleanup Guidance Supplemental Residential SCOs, Table 1 (NYSDEC 2010a).
5. Details on the development of the soil BTVs are presented in Appendix C of the Phase III Remedial Investigation Sampling and Analysis Plan.
6. Selected criteria is the higher of the Minimum of Agency Criteria and the BTV.

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-EFO | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 034-SB01 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS05 | EFO-SB01 | H1-SS01 | H1-SS02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB02 | H14-SB03 | H15-SB01 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | < 0.039 U | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | < 0.039 U | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | < 0.039 U | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | < 0.039 U | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | < 0.039 U | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | < 0.039 U | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | < 0.039 U | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | < 0.039 U | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | < 0.039 U | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | < 0.039 U | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | < 0.039 U | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | < 0.039 U | | | | | | | | |
| Nitrobenzene | 4.9 | | | | | | < 0.039 U | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | < 0.039 U | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 27822 | 9600 | 8400 | 8600 J | 9100 | 9900 | | 4300 | 3700 | 13000 | 3200 | 13000 | 9300 | 9300 | 11000 |
| Antimony | **5.6** | 1.9 | 2.0 | 2.4 | 3.7 | 0.73 J | | 0.78 J | 1.3 | 2.0 | 1.7 | 5.5 | 3.7 | 4.2 | 1.9 |
| Arsenic | **3.383** | **5.2** | 1.3 J | 2.7 J- | 1.6 | 0.85 J | | 0.90 J | 0.86 J | 3.3 | 1.8 | 2.6 | **3.8** | 1.9 | 1.3 J |
| Barium | 330 | 26 | 26 | 16 J+ | 43 | 19 | | 19 | 20 | 24 | 23 | 42 | 27 | 29 | 20 |
| Beryllium | **10** | 0.17 J | 0.22 | < 0.035 U | 0.020 J | < 0.045 U | | 0.063 J | 0.85 | 0.42 | 0.037 J | 0.18 | 0.052 J | 0.10 J | 0.26 |
| Cadmium | **0.36** | **0.52** | 0.36 | 0.032 J | 0.031 J | 0.10 J | | 0.066 J | **0.69** | 0.031 J | 0.025 J | 0.065 J | 0.052 J | 0.038 J | 0.20 |
| Calcium (Ca) | **751.8** | **2900** | **1000** | 660 J+ | 570 | 490 | | **860** | 720 | **1000** | 300 | **800** | 650 | **780** | 420 |
| Chromium | 33.92 | 12 | 10 | 12 J- | 13 | 11 | | 6.7 | 5.5 | 13 | 7.1 | 22 | 15 | 13 | 10 |
| Cobalt | **4.85** | 2.2 | 2.2 | 2.6 J- | 3.9 | 0.87 J | | 0.78 J | 1.4 | 2.1 | 1.7 | **5.5** | 3.7 | 4.2 | 1.9 |
| Copper | 57.2 | 24 | 22 | 25 | 33 | 10 | | 8.4 | 6.0 | 26 | 20 | 44 | 32 | 28 | 26 |
| Iron (Fe) | 19000 | 8500 | 8000 | 11000 J | 13000 | 3100 | | 3300 | 1700 | 12000 | 6900 | 15000 | 12000 | 11000 | 11000 |
| Lead | **11** | **14** | **15** | 8.1 | 2.7 J | **12** | | 2.5 J | 3.6 J | 4.0 | **64** | 3.3 J | 3.8 | 2.1 J | 5.9 |
| Magnesium (Mg) | **3186** | 1300 | 1100 | 960 J+ | 2200 | 550 | | 490 | 430 | 1200 | 830 | **3800** | 2000 | 2100 | 1000 |
| Manganese (Mn) | **180** | 120 | 140 | 140 J+ | **270** | 57 | | 43 | 49 | 95 | 77 | **190** | 130 | 160 | 120 |
| Nickel | 30 | 8.2 | 6.7 | 5.3 | 7.2 | 3.8 J | | 2.4 J | 2.8 J | 7.9 | 3.3 J | 13 | 7.2 | 7.8 | 6.1 |
| Potassium (K) | NE | 560 | 660 | 420 J+ | 1600 | 580 | | 370 | 340 | 560 | 740 | 2200 | 1000 | 1200 | 460 |
| Selenium | **0.77** | < 1.3 U | < 1.3 U | < 1.0 UJ | < 1.1 U | < 1.3 U | | < 1.4 U | < 1.4 U | < 1.1 U | < 1.1 U | < 1.1 U | < 1.0 U | < 1.3 U | < 1.1 U |
| Silver | **2** | 0.28 J | 0.20 J | < 0.17 U | < 0.18 U | < 0.22 U | | < 0.24 U | 0.63 J | < 0.19 U | < 0.18 U | < 0.18 U | < 0.17 U | < 0.21 U | < 0.19 U |
| Sodium (Na) | **122.5** | 100 | 120 | 66 | 120 | 98 | | 79 | 100 | 61 | 44 | **130** | 81 | 110 | 79 |
| Thallium | **0.14** | 0.086 J | 0.095 J | 0.10 J | **0.15** | 0.046 J | | 0.068 J | < 0.046 U | 0.073 J | 0.067 J | **0.16** | 0.13 J | **0.81** | 0.070 J |
| Vanadium | 46.28 | 17 | 15 | 19 J- | 19 | 13 | | 6.3 | 6.4 | 22 | 9.3 | 26 | 18 | 16 | 17 |
| Zinc | **46** | 32 | 26 | 14 | 16 | 36 | | 11 | 24 | 12 | 17 | 25 | 15 | 15 | 21 |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-EFO | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H15 |
| | **Location ID** | 034-SB01 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS05 | EFO-SB01 | H1-SS01 | H1-SS02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB02 | H14-SB03 | H15-SB01 |
| | **Sample Date** | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1221 | 0.2 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1232 | 0.17 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1242 | 0.041 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1248 | 0.0072 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1254 | 0.041 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1260 | 0.24 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1262 | 0.24 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| Aroclor 1268 | 0.24 | < 0.0091 U | < 0.0090 U | < 0.0073 U | < 0.0070 U | < 0.0089 U | | < 0.0096 U | < 0.0091 U | < 0.0076 U | < 0.0075 U | | | | |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.27 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 1,2-Dichlorobenzene | 0.09 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 1,3-Dichlorobenzene | 0.08 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 1,4-Dichlorobenzene | 0.88 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 1-Methylnaphthalene | 18 | 0.0045 | 0.0051 | 0.0023 | 0.0027 | 0.00099 | | < 0.00096 U | < 0.00092 U | 0.0027 | 0.030 | < 0.00073 U | < 0.00072 U | < 0.00085 U | 0.0024 J- |
| 2,4,5-Trichlorophenol | 4 | | | | | | | < 0.048 U | < 0.046 U | | | | | | |
| 2,4,6-Trichlorophenol | 6.3 | | | | | | | < 0.048 U | < 0.046 U | | | | | | |
| 2,4-Dichlorophenol | 0.05 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 2,4-Dimethylphenol | 0.04 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 2,4-Dinitrophenol | 0.15 | | | | | | | < 0.24 U | < 0.23 U | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 2-Chloronaphthalene | 480 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 2-Chlorophenol | 0.06 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 2-Methylnaphthalene | 16 | 0.0056 | 0.0049 | 0.0023 | 0.0031 | 0.0013 | | < 0.00096 U | < 0.00092 U | 0.0013 | 0.041 | < 0.00073 U | < 0.00072 U | < 0.00085 U | 0.0026 J- |
| 2-Methylphenol | 0.1 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 2-Nitroaniline | 5.4 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 2-Nitrophenol | 13 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 3,3-Dichlorobenzidine | 0.03 | | | | | | | < 0.96 U | < 0.92 U | | | | | | |
| 3,4-Methylphenol | NE | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 3-Nitroaniline | 63 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 4-Bromophenyl-phenylether | NE | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 4-Chloro-3-methylphenol | 630 | | | | | | | < 0.048 U | < 0.046 U | | | | | | |
| 4-Chloroaniline | 1 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 4-Chlorophenyl-phenylether | NE | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| 4-Nitroaniline | 25 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| 4-Nitrophenol | 7 | | | | | | | < 0.48 U | < 0.46 U | | | | | | |

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| | Location Group | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-EFO | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 034-SB01 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS05 | EFO-SB01 | H1-SS01 | H1-SS02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB02 | H14-SB03 | H15-SB01 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Acenaphthene | 20 | 0.0092 | 0.029 | 0.0031 | 0.014 | 0.0025 | | < 0.00096 U | < 0.00092 U | 0.0033 | 0.0080 | < 0.00073 U | 0.00075 | < 0.00085 U | < 0.00076 UJ |
| Acenaphthylene | 29 | 0.0072 | 0.0085 | 0.00095 | 0.0022 | 0.0013 | | < 0.00096 U | < 0.00092 U | 0.0017 | 0.0055 | < 0.00073 U | < 0.00072 U | < 0.00085 U | < 0.00076 UJ |
| Anthracene | 6.8 | 0.032 | 0.12 J- | 0.0089 | 0.050 | 0.0057 | | < 0.00096 U | < 0.00092 U | 0.0083 | 0.018 | < 0.00073 U | 0.0011 | < 0.00085 U | < 0.00076 UJ |
| Benzo(a)anthracene | **0.8** | 0.25 | 0.57 J- | 0.058 J+ | 0.15 | 0.040 | | 0.0031 | 0.0013 J+ | 0.022 | 0.17 | < 0.00073 U | 0.0058 | 0.0012 | 0.0039 J- |
| Benzo(a)pyrene | **0.247** | **0.26** | **0.45 J-** | 0.050 | 0.11 | 0.029 | | 0.0028 | **0.56** | 0.021 | 0.12 | < 0.00073 U | 0.0051 | 0.0011 | 0.0041 J- |
| Benzo(b)fluoranthene | **1** | 0.39 | 0.64 J- | 0.076 J- | 0.18 | 0.055 | | 0.0072 | < 0.00092 U | 0.032 | 0.27 | < 0.00073 U | 0.0080 | 0.0023 | 0.0062 J- |
| Benzo(g,h,i)perylene | 18 | 0.18 | 0.0086 | 0.029 | 0.068 | 0.012 | | 0.0025 | 0.0018 J+ | 0.0088 | 0.074 J+ | < 0.00073 U | 0.0026 | < 0.00085 U | 0.0028 J- |
| Benzo(k)fluoranthene | **1** | 0.11 | 0.23 J- | 0.025 J- | 0.041 | 0.011 | | 0.0018 | < 0.00092 U | 0.0091 | 0.046 | < 0.00073 U | 0.0031 | < 0.00085 U | 0.0029 J- |
| Benzoic acid | 25000 | | | | | | | 0.30 J | 0.28 J | | | | | | |
| Benzyl Alcohol | 630 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Bis(2-chloroethoxy)methane | 19 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Bis(2-chloroethyl)ether | 0.23 | | | | | | | < 0.048 U | < 0.046 U | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.02 | | | | | | | < 0.048 U | < 0.046 U | | | | | | |
| Butyl benzyl phthalate | 0.59 | | | | | | | < 0.048 U | < 0.046 U | | | | | | |
| CARBAZOLE | 240 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Chrysene | **1** | 0.23 | 0.44 J- | 0.055 | 0.12 | 0.025 | | 0.0035 | 0.0013 J+ | 0.019 | 0.11 | < 0.00073 U | 0.0055 | 0.0011 | 0.0045 J- |
| Dibenz(a,h)anthracene | **0.115** | 0.044 | 0.024 J- | 0.0053 | 0.017 | 0.0034 | | < 0.00096 U | < 0.00092 U | 0.0031 | 0.0095 | < 0.00073 U | < 0.00072 U | < 0.00085 U | < 0.00076 UJ |
| Dibenzofuran | **0.15** | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Diethyl phthalate | 0.23 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Dimethyl phthalate | 38 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Di-n-butyl phthalate | 0.011 | | | | | | | < 0.048 U | < 0.046 U | | | | | | |
| Di-n-octyl phthalate | 0.21 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Fluoranthene | **10** | 0.43 | 1.1 J- | 0.13 J+ | 0.31 | 0.072 | | 0.0091 | 0.0031 J+ | 0.050 | 0.25 | < 0.00073 U | 0.014 | 0.0027 | 0.0092 J- |
| Fluorene | 30 | 0.011 | 0.035 | 0.0035 | 0.017 | 0.0028 | | < 0.00096 U | < 0.00092 U | 0.0033 | 0.0074 | < 0.00073 U | 0.00076 | < 0.00085 U | < 0.00076 UJ |
| Hexachlorobenzene | 0.079 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Hexachlorobutadiene | 0.1 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Hexachloroethane | 0.024 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Indeno(1,2,3-cd)pyrene | **0.5** | 0.20 | 0.27 J- | 0.024 | 0.079 | 0.0098 | | 0.0025 | 0.0018 J+ | 0.0092 | 0.062 | < 0.00073 U | 0.0026 | < 0.00085 U | 0.0028 J- |
| Isophorone | 570 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Naphthalene | 1 | 0.0058 | 0.0056 | 0.0022 | 0.0027 | 0.0014 | | < 0.00096 U | < 0.00092 U | 0.0043 | 0.026 | < 0.00073 U | 0.00074 | < 0.00085 U | 0.0020 J- |
| Nitrobenzene | 4.9 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| n-Nitrosodimethylamine | 0.002 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| n-Nitroso-di-n-propylamine | 0.078 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| n-Nitrosodiphenylamine | 20 | | | | | | | < 0.024 U | < 0.023 U | | | | | | |
| Pentachlorophenol | 0.8 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| Phenanthrene | **5.5** | 0.13 | 0.48 J- | 0.052 J+ | 0.15 | 0.037 | | 0.0046 | 0.0014 J+ | 0.023 | 0.15 | < 0.00073 U | 0.0080 | 0.0017 | 0.0042 J- |
| Phenol | 30 | | | | | | | < 0.12 U | < 0.11 U | | | | | | |
| Pyrene | **10** | 0.37 | 0.90 J- | 0.10 J+ | 0.24 | 0.062 | | 0.0074 | 0.0024 J+ | 0.032 | 0.25 | < 0.00073 U | 0.011 | 0.0022 | 0.0078 J- |
| Total BaP PAHs Calculated | **0.493** | 0.389 | **0.625** | 0.0714 | 0.168 | 0.0430 | | 0.00506 | **0.561** | 0.0305 | 0.180 | 0.00169 | 0.00750 | 0.00239 | 0.00618 |
| Total HMW PAHs Calculated | **1.791** | **1.9** | **3.3** | 0.40 | 0.96 | 0.24 | | 0.030 | 0.57 | 0.15 | 1.1 | < 0.00073 U | 0.041 | 0.010 | 0.033 |
| Total LMW PAHs Calculated | **3.8** | 0.64 | 1.8 | 0.21 | 0.55 | 0.12 | | 0.020 | 0.011 | 0.098 | 0.54 | < 0.00073 U | 0.028 | 0.010 | 0.023 |

Notes:
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ft - feet.
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J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
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NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
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VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-EFO | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 034-SB01 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS05 | EFO-SB01 | H1-SS01 | H1-SS02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB02 | H14-SB03 | H15-SB01 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.07 | | | | | | | < 0.12 UJ | < 0.082 UJ | | < 0.00051 U | | | | |
| 1,1,1-Trichloroethane | 0.04 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,1,2,2-Tetrachloroethane | 0.19 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,1,2-Trichloroethane | 0.15 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,1-Dichloroethane | 0.14 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,1-Dichloroethene | 0.04 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,2,3-Trichloropropane | 0.0051 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,2,4-Trimethylbenzene | 0.09 | | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | | | | | | | < 0.20 U | < 0.14 U | | < 0.0017 U | | | | |
| 1,2-Dibromoethane | 0.036 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,2-Dichloroethane | 0.4 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,2-Dichloropropane | 1 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| 1,3,5-Trimethylbenzene | 0.16 | | | | | | | | | | | | | | |
| 2-Butanone | 100 | | | | | | | < 1.0 U | < 0.68 U | | 0.011 J | | | | |
| 2-Hexanone | 20 | | | | | | | < 0.12 U | < 0.082 U | | < 0.0017 U | | | | |
| 4-Isopropyltoluene | 0.18 | | | | | | | | | | | | | | |
| Acetone | 100 | | | | | | | 0.60 J | 0.31 J | | 0.15 J+ | | | | |
| Benzene | 0.12 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Bromodichloromethane | 0.29 | | | | | | | < 0.12 UJ | < 0.082 UJ | | < 0.00051 U | | | | |
| Bromoform | 0.07 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 UJ | | | | |
| Carbon disulfide | 77 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Carbon tetrachloride | 0.05 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Chlorobenzene | 28 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Chloroethane | 1400 | | | | | | | < 0.82 UJ | < 0.54 UJ | | < 0.00085 U | | | | |
| Chloroform | 0.05 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Chloromethane | 11 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| cis-1,2-Dichloroethene | 0.04 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| cis-1,3-Dichloropropene | NE | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Dibromochloromethane | 8.3 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Dichlorodifluoromethane | 8.7 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Ethylbenzene | 0.27 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Isopropylbenzene | 0.04 | | | | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | | | | |
| Methylene chloride | 2.6 | | | | | | | < 0.12 U | < 0.082 U | | < 0.0017 U | | | | |
| Naphthalene | 1 | | | | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | | | | |
| Styrene | 1.2 | | | | | | | < 0.12 UJ | < 0.082 UJ | | < 0.00051 U | | | | |
| tert-Butylbenzene | 100 | | | | | | | | | | | | | | |
| Tetrachloroethene | 0.06 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |

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SVOC - Semivolatile Organic Compound.
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VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-EFO | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 034-SB01 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS05 | EFO-SB01 | H1-SS01 | H1-SS02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB02 | H14-SB03 | H15-SB01 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Toluene | 0.15 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| trans-1,2-Dichloroethene | 0.04 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| trans-1,3-Dichloropropene | 1.8 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Trichloroethene | 0.41 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Trichlorofluoromethane | 52 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Vinyl Acetate | 91 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Vinyl chloride | 0.059 | | | | | | | < 0.12 U | < 0.082 U | | < 0.00051 U | | | | |
| Xylenes (total) | 0.1 | | | | | | | < 0.31 U | < 0.20 U | | < 0.0015 U | | | | |

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1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H15 | CH-AOC-H15 | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H2 | CH-AOC-H2 |
| | **Location ID** | H15-SB02 | H15-SB03 | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS01 | H18-SS02 | H19-SS01 | H19-SS02 | H19-SS02 | H2-SS01 | H2-SS02 |
| | **Sample Date** | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/9/2016 | 6/9/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | FD | N | N | N | FD | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | | | | |
| Nitrobenzene | 4.9 | | | | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 27822 | 12000 | 9800 | 14000 | 11000 | 10000 | 12000 | 4900 | 5900 | 5300 | 7200 | 11000 | 11000 | 6900 | 10000 |
| Antimony | **5.6** | **6.6** | 1.6 | 4.1 | 2.4 | 1.6 | 3.3 | 1.5 | 1.9 | 1.9 | 1.4 | 2.5 | 3.3 | 3.5 | 4.1 |
| Arsenic | **3.383** | 2.5 | 1.5 | 2.3 | 2.9 | 2.3 | 2.8 | 1.4 | 2.0 | 2.0 | 1.4 J | 2.2 | 2.2 | 1.1 J | 2.5 |
| Barium | 330 | 31 | 13 | 34 | 22 | 20 | 22 | 13 | 12 | 12 | 15 | 18 | 24 | 30 | 37 |
| Beryllium | **10** | 0.17 J | 0.11 J | 0.23 | 0.051 J | 0.056 J | 0.10 J | < 0.036 U | < 0.035 U | 0.22 | 0.051 J | 0.021 J | 0.083 J | 0.083 J | 0.14 J |
| Cadmium | **0.36** | 0.049 J | 0.038 J | 0.13 J | 0.034 J | 0.082 J | < 0.038 U | < 0.036 UJ | 0.033 J | 0.31 | 0.026 J | 0.041 J | 0.055 J | 0.13 J | 0.16 J |
| Calcium (Ca) | **751.8** | 410 | 330 | **1200** | 510 | 380 | 460 | **790** | **870** | 730 | 420 | 560 | 560 | 470 | 650 |
| Chromium | 33.92 | 14 | 8.1 | 18 | 13 | 12 | 16 | 6.7 | 8.0 | 7.8 | 9.2 | 15 | 16 | 12 | 16 |
| Cobalt | **4.85** | **6.5** | 1.6 | 4.0 | 2.3 | 1.5 | 3.3 | 1.7 | 2.1 | 2.0 | 1.5 | 2.5 | 3.4 | 3.5 | 4.2 |
| Copper | 57.2 | 35 | 22 | 38 | 27 | 25 | 29 | 15 | 18 | 22 | 19 | 27 | 31 | 34 | 45 |
| Iron (Fe) | 19000 | 14000 | 10000 | 12000 | 12000 | 12000 | 12000 | 6000 | 7500 | 7100 | 8600 | 12000 | 14000 | 11000 | 13000 |
| Lead | **11** | 5.2 | 6.2 | **20** | 5.5 | 6.2 | 5.2 | 2.7 J | 9.2 J | 3.8 | 6.8 | 10 | **12** | 6.4 | **16** |
| Magnesium (Mg) | **3186** | 2200 | 700 | 2600 | 1200 | 840 | 1300 | 1000 | 1000 | 1100 | 960 | 1700 | 1800 | 1700 | 2600 |
| Manganese (Mn) | **180** | **400** | 77 | **240** | 140 | 100 | 140 | 100 | 130 | 100 | 87 | 100 | 150 | 170 | **230** |
| Nickel | 30 | 9.4 | 3.7 | 10 | 5.8 | 4.2 | 8.3 | 3.2 J | 3.8 | 12 | 4.6 | 7.5 | 9.4 | 7.0 | 9.7 |
| Potassium (K) | NE | 1100 | 420 | 1200 | 540 | 420 | 520 | 610 | 570 | 580 | 310 | 450 | 490 | 1200 | 1600 |
| Selenium | **0.77** | < 1.1 U | < 1.1 U | < 1.3 U | < 1.1 U | < 1.2 U | < 1.1 U | < 1.1 U | < 1.0 U | < 1.1 U | < 1.1 U | < 1.2 U | < 1.2 U | < 1.1 U | < 1.1 U |
| Silver | **2** | < 0.18 U | < 0.18 U | < 0.22 U | < 0.19 U | < 0.19 U | < 0.19 U | < 0.18 U | < 0.17 U | 0.17 J | < 0.19 U | < 0.19 U | < 0.19 U | < 0.18 U | < 0.19 U |
| Sodium (Na) | **122.5** | 71 | 48 | **130** | 63 | 64 | 53 | 71 | 72 | 100 | 73 | 88 | 97 | 68 | 81 |
| Thallium | **0.14** | **0.16** | 0.065 J | 0.13 J | 0.081 J | 0.089 J | 0.082 J | 0.035 J | 0.050 J | **0.36** | 0.058 J | 0.097 J | 0.077 J | 0.082 J | 0.12 J |
| Vanadium | 46.28 | 22 | 16 | 24 | 20 | 20 | 21 | 9.6 | 12 | 11 | 13 | 19 | 21 | 18 | 21 |
| Zinc | **46** | 17 | 13 | 31 | 16 | 27 | 19 | 8.5 | 11 | 14 | 13 | 16 | 19 | **210** | **100** |

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**Montauk, New York**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H15 | CH-AOC-H15 | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H2 | CH-AOC-H2 |
| | **Location ID** | H15-SB02 | H15-SB03 | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS01 | H18-SS02 | H19-SS01 | H19-SS02 | H19-SS02 | H2-SS01 | H2-SS02 |
| | **Sample Date** | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/9/2016 | 6/9/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | FD | N | N | N | FD | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1221 | 0.2 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1232 | 0.17 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1242 | 0.041 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1248 | 0.0072 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1254 | 0.041 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1260 | 0.24 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1262 | 0.24 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| Aroclor 1268 | 0.24 | | | < 0.0089 U | < 0.0076 U | < 0.0078 U | < 0.0077 U | < 0.0072 UJ | < 0.0071 U | < 0.0072 U | | | | < 0.0073 UJ | < 0.0075 U |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.27 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 1,2-Dichlorobenzene | 0.09 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 1,3-Dichlorobenzene | 0.08 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 1,4-Dichlorobenzene | 0.88 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 1-Methylnaphthalene | 18 | 0.0032 | 0.0048 | < 0.18 U | 0.00087 | 0.0016 J- | 0.0016 | 0.012 J | 0.0063 J | 0.0058 J+ | < 0.00077 U | < 0.0023 U | < 0.0023 U | 0.00078 J+ | 0.0024 J+ |
| 2,4,5-Trichlorophenol | 4 | | | < 0.44 UJ | < 0.038 U | < 0.039 U | < 0.038 U | < 0.036 U | < 0.035 U | < 0.036 U | | | | < 0.036 U | < 0.037 U |
| 2,4,6-Trichlorophenol | 6.3 | | | < 0.44 UJ | < 0.038 U | < 0.039 U | < 0.038 U | < 0.036 U | < 0.035 U | < 0.036 U | | | | < 0.036 U | < 0.037 U |
| 2,4-Dichlorophenol | 0.05 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 2,4-Dimethylphenol | 0.04 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 2,4-Dinitrophenol | 0.15 | | | < 2.2 UJ | < 0.19 U | < 0.19 U | < 0.19 U | < 0.18 U | < 0.18 U | < 0.18 U | | | | < 0.18 U | < 0.19 U |
| 2,4-Dinitrotoluene | 1.7 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 2,6-Dinitrotoluene | 0.36 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 2-Chloronaphthalene | 480 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 2-Chlorophenol | 0.06 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 2-Methylnaphthalene | 16 | 0.0036 | 0.0054 | < 0.18 U | 0.0014 | 0.0027 J- | 0.0028 | 0.014 J | 0.0060 J | 0.0068 | 0.00079 | < 0.0023 U | < 0.0023 U | 0.0011 | 0.0034 |
| 2-Methylphenol | 0.1 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 2-Nitroaniline | 5.4 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 2-Nitrophenol | 13 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 3,3-Dichlorobenzidine | 0.03 | | | < 8.8 UJ | < 0.75 U | < 0.77 U | < 0.76 U | < 0.71 UJ | < 0.71 UJ | < 0.71 UJ | | | | < 0.72 U | < 0.75 U |
| 3,4-Methylphenol | NE | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 3-Nitroaniline | 63 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 4,6-Dinitro-2-methylphenol | 0.51 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 4-Bromophenyl-phenylether | NE | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 4-Chloro-3-methylphenol | 630 | | | < 0.44 UJ | < 0.038 U | < 0.039 U | < 0.038 U | < 0.036 U | < 0.035 U | < 0.036 U | | | | < 0.036 U | < 0.037 U |
| 4-Chloroaniline | 1 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 4-Chlorophenyl-phenylether | NE | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| 4-Nitroaniline | 25 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| 4-Nitrophenol | 7 | | | < 4.4 UJ | < 0.38 U | < 0.39 U | < 0.38 U | < 0.36 U | < 0.35 U | < 0.36 U | | | | < 0.36 U | < 0.37 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H15 | CH-AOC-H15 | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H2 | CH-AOC-H2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H15-SB02 | H15-SB03 | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS01 | H18-SS02 | H19-SS01 | H19-SS02 | H19-SS02 | H2-SS01 | H2-SS02 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/9/2016 | 6/9/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | FD | N | N | N | FD | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Acenaphthene | 20 | < 0.00074 U | < 0.00074 U | 0.42 | 0.0018 | 0.00079 J- | 0.0011 | 0.024 | 0.015 J | 0.0035 | 0.0017 | < 0.0023 U | < 0.0023 U | < 0.00074 U | 0.0032 |
| Acenaphthylene | 29 | < 0.00074 U | < 0.00074 U | < 0.18 U | 0.00076 | 0.0013 J- | < 0.00078 U | 0.0035 | 0.0023 J+ | 0.00076 | 0.0012 | < 0.0023 U | < 0.0023 U | < 0.00074 U | 0.0029 |
| Anthracene | 6.8 | < 0.00074 U | < 0.00074 U | 1.2 | 0.0046 | 0.010 J- | 0.0018 | 0.047 | 0.035 J | 0.0056 | 0.0047 | 0.0025 | 0.0023 | 0.00090 | 0.012 |
| Benzo(a)anthracene | **0.8** | 0.0040 | 0.0040 | **7.3** | 0.025 | 0.0098 J | 0.0089 J+ | 0.15 | 0.12 J | 0.026 | 0.027 | 0.019 | 0.017 | 0.0064 | 0.085 |
| Benzo(a)pyrene | **0.247** | 0.0044 | 0.0042 | **7.0** | 0.011 | 0.0077 J- | 0.0079 | 0.13 | 0.10 J | 0.022 | 0.025 | 0.019 | 0.018 | 0.0057 | 0.24 |
| Benzo(b)fluoranthene | **1** | 0.0068 | 0.0069 | **12 J-** | 0.025 | 0.018 J- | 0.011 | 0.18 | 0.14 J | 0.030 | 0.037 | 0.033 | 0.026 | 0.0093 | 0.36 |
| Benzo(g,h,i)perylene | 18 | 0.0023 | < 0.00074 U | 2.5 | 0.0085 | < 0.00078 UJ | 0.0057 | 0.0012 J | 0.055 J | 0.011 | 0.0015 | < 0.0023 U | < 0.0023 U | < 0.00074 U | 0.17 |
| Benzo(k)fluoranthene | **1** | 0.0031 | 0.0030 | **4.6** | 0.0089 | 0.0033 J- | 0.0053 | 0.095 | 0.065 J | 0.0084 | 0.016 | 0.0094 | 0.014 | 0.0035 | 0.10 |
| Benzoic acid | 25000 | | | < 4.4 UJ | < 0.38 U | 0.70 J | < 0.38 U | < 0.36 U | < 0.35 U | < 0.36 U | | | | < 0.36 UJ | < 0.37 UJ |
| Benzyl Alcohol | 630 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Bis(2-chloro-1-methylethyl) ether | 310 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Bis(2-chloroethoxy)methane | 19 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Bis(2-chloroethyl)ether | 0.23 | | | < 0.44 UJ | < 0.038 U | < 0.039 U | < 0.038 U | < 0.036 U | < 0.035 U | < 0.036 U | | | | < 0.036 U | < 0.037 U |
| Bis(2-ethylhexyl)phthalate | 0.02 | | | < 0.44 UJ | < 0.038 U | < 0.039 U | < 0.038 U | < 0.036 U | < 0.035 U | < 0.036 U | | | | < 0.036 U | < 0.037 U |
| Butyl benzyl phthalate | 0.59 | | | < 0.44 UJ | < 0.038 U | < 0.039 U | < 0.038 U | < 0.036 U | < 0.035 U | < 0.036 U | | | | < 0.036 U | < 0.037 U |
| CARBAZOLE | 240 | | | 0.89 J | < 0.019 U | < 0.019 U | < 0.019 U | 0.016 J | 0.018 J | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Chrysene | **1** | 0.0047 | 0.0047 | **7.4** | 0.014 | 0.0079 J- | 0.0081 | 0.16 | 0.12 J | 0.024 | 0.028 | 0.020 | 0.019 | 0.0059 | 0.11 |
| Dibenz(a,h)anthracene | **0.115** | < 0.00074 U | < 0.00074 U | **0.26** | 0.00097 | < 0.00078 UJ | < 0.00078 U | 0.013 | 0.017 J | 0.0022 | 0.00089 | < 0.0023 U | < 0.0023 U | < 0.00074 U | < 0.015 U |
| Dibenzofuran | **0.15** | | | **0.16 J** | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Diethyl phthalate | 0.23 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Dimethyl phthalate | 38 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Di-n-butyl phthalate | 0.011 | | | < 0.44 UJ | < 0.038 U | < 0.039 U | < 0.038 U | < 0.036 U | < 0.035 U | < 0.036 U | | | | < 0.036 U | < 0.037 U |
| Di-n-octyl phthalate | 0.21 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Fluoranthene | **10** | 0.010 | 0.0098 | **18 J-** | 0.035 | 0.016 J- | 0.020 | 0.42 | 0.30 J | 0.058 | 0.063 | 0.046 | 0.042 | 0.012 | 0.036 |
| Fluorene | 30 | < 0.00074 U | < 0.00074 U | 0.48 | 0.0017 | 0.0011 J | 0.00092 J+ | 0.031 J | 0.018 J | 0.0036 | 0.0020 | < 0.0023 U | < 0.0023 U | < 0.00074 U | 0.0036 |
| Hexachlorobenzene | 0.079 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Hexachlorobutadiene | 0.1 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Hexachloroethane | 0.024 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Indeno(1,2,3-cd)pyrene | **0.5** | 0.0023 | < 0.00074 U | **2.5** | 0.0080 | < 0.00078 UJ | 0.0061 | 0.085 | 0.066 J | 0.014 | < 0.00077 U | < 0.0023 U | < 0.0023 U | 0.0041 | 0.17 |
| Isophorone | 570 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Naphthalene | 1 | 0.0023 | 0.0039 | < 0.18 U | 0.0061 | 0.0030 J- | 0.0032 | 0.020 J | 0.0053 J | 0.0050 | 0.00093 | < 0.0023 U | < 0.0023 U | 0.00089 | 0.0039 |
| Nitrobenzene | 4.9 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| n-Nitrosodimethylamine | 0.002 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| n-Nitroso-di-n-propylamine | 0.078 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| n-Nitrosodiphenylamine | 20 | | | < 0.22 UJ | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.018 U | < 0.018 U | | | | < 0.018 U | < 0.019 U |
| Pentachlorophenol | 0.8 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| Phenanthrene | **5.5** | 0.0045 | 0.0049 | **5.8** | 0.026 | 0.012 J | 0.0089 J+ | 0.29 | 0.18 J | 0.035 | 0.029 | 0.020 | 0.019 | 0.0052 | 0.027 |
| Phenol | 30 | | | < 1.1 UJ | < 0.094 U | < 0.096 U | < 0.095 U | < 0.089 U | < 0.088 U | < 0.089 U | | | | < 0.089 U | < 0.093 U |
| Pyrene | **10** | 0.0088 | 0.0082 | **15 J-** | 0.035 | 0.018 J- | 0.016 | 0.32 | 0.23 J | 0.043 | 0.049 | 0.039 | 0.036 | 0.010 | 0.064 |
| Total BaP PAHs Calculated | **0.493** | 0.00649 | 0.00614 | **9.49** | 0.0179 | 0.0114 | 0.0113 | 0.186 | 0.150 | 0.0313 | 0.0326 | 0.0268 | 0.0250 | 0.00846 | 0.318 |
| Total HMW PAHs Calculated | **1.791** | 0.034 | 0.030 | **54** | 0.13 | 0.064 | 0.064 | 1.0 | 0.85 | 0.17 | 0.17 | 0.14 | 0.12 | 0.043 | 1.2 |
| Total LMW PAHs Calculated | **3.8** | 0.027 | 0.032 | **27** | 0.078 | 0.048 | 0.041 | 0.86 | 0.57 | 0.12 | 0.10 | 0.082 | 0.077 | 0.023 | 0.094 |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H15 | CH-AOC-H15 | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H2 | CH-AOC-H2 |
| | **Location ID** | H15-SB02 | H15-SB03 | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS01 | H18-SS02 | H19-SS01 | H19-SS02 | H19-SS02 | H2-SS01 | H2-SS02 |
| | **Sample Date** | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/9/2016 | 6/9/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | FD | N | N | N | FD | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.07 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 UJ | < 0.086 UJ | < 0.078 UJ | < 0.060 UJ | < 0.066 UJ |
| 1,1,1-Trichloroethane | 0.04 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,1,2,2-Tetrachloroethane | 0.19 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,1,2-Trichloroethane | 0.15 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,1-Dichloroethane | 0.14 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,1-Dichloroethene | 0.04 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,2,3-Trichloropropane | 0.0051 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,2,4-Trimethylbenzene | 0.09 | | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | | | < 0.0026 UJ | < 0.16 U | < 0.17 U | < 0.12 U | < 0.0022 U | < 0.0023 U | < 0.0022 U | < 0.13 U | < 0.14 U | < 0.13 U | < 0.10 U | < 0.11 U |
| 1,2-Dibromoethane | 0.036 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,2-Dichloroethane | 0.4 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,2-Dichloropropane | 1 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 1,3,5-Trimethylbenzene | 0.16 | | | | | | | | | | | | | | |
| 2-Butanone | 100 | | | < 0.013 UJ | < 0.80 U | < 0.84 U | < 0.60 U | < 0.011 U | < 0.012 U | < 0.011 U | < 0.65 U | < 0.72 U | < 0.65 U | < 0.50 U | < 0.55 U |
| 2-Hexanone | 20 | | | < 0.0026 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.0022 U | < 0.0023 U | < 0.0022 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| 4-Isopropyltoluene | 0.18 | | | | | | | | | | | | | | |
| Acetone | 100 | | | < 0.0026 UJ | < 0.64 U | < 0.67 U | < 0.48 U | < 0.0022 UJ | < 0.0023 UJ | < 0.0022 UJ | 0.28 J | 0.23 J | 0.23 J | < 0.40 U | 0.073 J |
| Benzene | 0.12 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Bromodichloromethane | 0.29 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 UJ | < 0.086 UJ | < 0.078 UJ | < 0.060 UJ | < 0.066 UJ |
| Bromoform | 0.07 | | | < 0.00078 UJ | < 0.096 UJ | < 0.10 UJ | < 0.072 UJ | < 0.00065 UJ | < 0.00069 UJ | < 0.00065 UJ | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Carbon disulfide | 77 | | | 0.0013 | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Carbon tetrachloride | 0.05 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Chlorobenzene | 28 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Chloroethane | 1400 | | | < 0.0013 U | < 0.64 U | < 0.67 U | < 0.48 U | < 0.0011 U | < 0.0012 U | < 0.0011 U | < 0.52 UJ | < 0.58 UJ | < 0.52 UJ | < 0.40 UJ | < 0.44 UJ |
| Chloroform | 0.05 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Chloromethane | 11 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| cis-1,2-Dichloroethene | 0.04 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| cis-1,3-Dichloropropene | NE | | | < 0.00078 UJ | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Dibromochloromethane | 8.3 | | | < 0.00078 UJ | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 UJ | < 0.00069 UJ | < 0.00065 UJ | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Dichlorodifluoromethane | 8.7 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Ethylbenzene | 0.27 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Isopropylbenzene | 0.04 | | | | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | | | | |
| Methylene chloride | 2.6 | | | < 0.0026 U | < 0.096 U | 0.091 J | 0.055 J | < 0.0022 UJ | < 0.0023 UJ | < 0.0022 U | 0.061 J | 0.086 J | < 0.078 UJ | < 0.060 U | < 0.066 U |
| Naphthalene | 1 | | | | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | | | | |
| Styrene | 1.2 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 UJ | < 0.086 UJ | < 0.078 UJ | < 0.060 UJ | < 0.066 UJ |
| tert-Butylbenzene | 100 | | | | | | | | | | | | | | |
| Tetrachloroethene | 0.06 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H15 | CH-AOC-H15 | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H19 | CH-AOC-H2 | CH-AOC-H2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H15-SB02 | H15-SB03 | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS01 | H18-SS02 | H19-SS01 | H19-SS02 | H19-SS02 | H2-SS01 | H2-SS02 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/9/2016 | 6/9/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | FD | N | N | N | FD | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Toluene | 0.15 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| trans-1,2-Dichloroethene | 0.04 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| trans-1,3-Dichloropropene | 1.8 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Trichloroethene | 0.41 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Trichlorofluoromethane | 52 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Vinyl Acetate | 91 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Vinyl chloride | 0.059 | | | < 0.00078 U | < 0.096 U | < 0.10 U | < 0.072 U | < 0.00065 U | < 0.00069 U | < 0.00065 U | < 0.078 U | < 0.086 U | < 0.078 U | < 0.060 U | < 0.066 U |
| Xylenes (total) | 0.1 | | | < 0.0024 U | < 0.24 U | < 0.25 U | < 0.18 U | < 0.0019 U | < 0.0021 U | < 0.0020 U | < 0.19 U | < 0.22 U | < 0.19 U | < 0.15 U | < 0.17 U |

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PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 |
| | **Location ID** | H20-SS01 | H20-SS02 | H21-SB01 | H21-SB02 | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB01 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 |
| | **Sample Date** | 6/7/2016 | 6/7/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N | N | N | FD |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | | | | |
| Nitrobenzene | 4.9 | | | | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 27822 | 6800 | 8500 | 8400 | 7100 | 8100 | 8500 | 8500 | 8200 | 9400 | | | | 7700 | 8000 |
| Antimony | **5.6** | 2.5 | 2.5 | 2.3 | 1.7 | 2.2 | 2.9 | 1.3 | 0.91 | 2.3 | | | | 1.5 J | **23 J** |
| Arsenic | **3.383** | 1.2 J | 1.3 J | 1.4 | 1.1 J | 1.8 | 1.8 | 1.4 | 1.6 | 1.7 | | | | 2.6 J | **4.2 J** |
| Barium | 330 | 33 | 37 | 22 | 12 | 22 | 21 | 13 | 12 | 14 | | | | 54 | 90 |
| Beryllium | **10** | 0.85 | 0.50 | 0.062 J | 0.035 J | 0.11 J | 0.052 J | 0.029 J | < 0.039 U | 1.4 | | | | 1.0 | **20 J** |
| Cadmium | **0.36** | **0.45** | 0.14 J | 0.038 J | 0.037 J | 0.099 J | < 0.035 U | < 0.036 U | 0.045 J | **1.1** | | | | **0.81** | **20 J** |
| Calcium (Ca) | **751.8** | **1400** | **1300** | 490 | 430 | 560 | 360 | 380 | 390 | 530 | | | | 490 | **1100** |
| Chromium | 33.92 | 14 | 14 | 9.8 | 8.0 | 11 | 12 | 9.4 | 9.8 | 10 | | | | 5.0 | 26 J |
| Cobalt | **4.85** | 2.5 | 2.6 | 2.5 | 1.9 | 2.3 | 2.9 | 1.4 | 0.89 | 2.4 | | | | 1.4 J | **23 J** |
| Copper | 57.2 | 24 | 30 | 32 | 22 | 29 | 24 | 19 | 26 | 24 | | | | 13 | 41 J |
| Iron (Fe) | 19000 | 6200 | 11000 | 11000 | 9500 | 11000 | 10000 | 8900 | 12000 | 12000 | | | | 2100 | 1900 |
| Lead | **11** | **27** | 2.9 J | 3.0 J | 4.0 | 5.2 | 3.2 J | 4.4 | 8.3 | 10 | 5.7 | **47** | 4.6 | **20** | **37** |
| Magnesium (Mg) | **3186** | 1300 | 2000 | 1200 | 750 | 1300 | 1300 | 700 | 480 | 500 | | | | 210 | 460 J |
| Manganese (Mn) | **180** | 72 | 110 | 120 | 84 | 110 | 140 | 79 | 69 | 78 | | | | 13 | 40 J |
| Nickel | 30 | 8.2 | 11 | 5.8 | 3.9 | 7.0 | 6.1 | 4.0 | 2.8 J | 6.2 | | | | 4.4 J | 28 J |
| Potassium (K) | NE | 750 | 1300 | 750 | 330 | 680 | 760 | 300 | 310 | 230 | | | | 250 | 490 J |
| Selenium | **0.77** | < 1.5 U | < 1.2 U | < 1.1 U | < 1.0 U | < 1.1 U | < 1.1 U | < 1.1 U | < 1.2 U | < 1.2 U | | | | < 3.1 U | **4.8 J** |
| Silver | **2** | 0.28 J | < 0.21 U | < 0.18 U | < 0.17 U | < 0.19 U | < 0.18 U | < 0.18 U | < 0.20 U | 0.53 J | | | | 0.58 J | **9.5 J** |
| Sodium (Na) | **122.5** | **130** | 120 | 67 | 59 | 100 | 54 | 52 | 76 | 69 | | | | **210** | **500 J** |
| Thallium | **0.14** | 0.068 J | 0.079 J | 0.11 J | 0.051 J | 0.091 J | 0.092 J | 0.056 J | 0.054 J | 0.074 J | | | | < 0.099 U | < 0.12 U |
| Vanadium | 46.28 | 12 | 15 | 17 | 14 | 18 | 16 | 13 | 21 | 22 | | | | 8.6 | 26 J |
| Zinc | **46** | 25 | 21 | 13 | 8.7 | 18 | 13 | 11 | 16 | **57** | | | | 35 | **150 J** |

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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 |
| | **Location ID** | H20-SS01 | H20-SS02 | H21-SB01 | H21-SB02 | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB01 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 |
| | **Sample Date** | 6/7/2016 | 6/7/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N | N | N | FD |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1221 | 0.2 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1232 | 0.17 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1242 | 0.041 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1248 | 0.0072 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1254 | 0.041 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1260 | 0.24 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1262 | 0.24 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| Aroclor 1268 | 0.24 | < 0.0099 U | < 0.0084 U | < 0.0072 U | < 0.0072 U | < 0.0077 U | < 0.0072 U | < 0.0075 U | < 0.0081 U | < 0.0082 U | < 0.0082 U | < 0.0080 U | < 0.0079 U | < 0.021 UJ | < 0.024 UJ |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.27 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 1,2-Dichlorobenzene | 0.09 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 1,3-Dichlorobenzene | 0.08 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 1,4-Dichlorobenzene | 0.88 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 1-Methylnaphthalene | 18 | 0.065 | < 0.0025 U | 0.022 J+ | 0.0045 J+ | 0.013 J+ | < 0.0022 U | < 0.0022 U | < 0.00081 U | < 0.00081 U | | | | < 0.0021 U | < 0.036 UJ |
| 2,4,5-Trichlorophenol | 4 | < 0.050 U | < 0.043 U | < 0.036 U | < 0.036 U | < 0.038 U | < 0.036 U | < 0.038 U | < 0.040 U | < 0.040 U | | | | < 0.31 UJ | < 0.36 U |
| 2,4,6-Trichlorophenol | 6.3 | < 0.050 U | < 0.043 U | < 0.036 U | < 0.036 U | < 0.038 U | < 0.036 U | < 0.038 U | < 0.040 U | < 0.040 U | | | | < 0.31 UJ | < 0.36 U |
| 2,4-Dichlorophenol | 0.05 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 U |
| 2,4-Dimethylphenol | 0.04 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 U |
| 2,4-Dinitrophenol | 0.15 | < 0.25 UJ | < 0.22 U | < 0.18 U | < 0.18 U | < 0.19 U | < 0.18 U | < 0.19 U | < 0.20 UJ | < 0.20 UJ | | | | < 1.5 UJ | < 1.8 U |
| 2,4-Dinitrotoluene | 1.7 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 2,6-Dinitrotoluene | 0.36 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 2-Chloronaphthalene | 480 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 2-Chlorophenol | 0.06 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 U |
| 2-Methylnaphthalene | 16 | 0.072 | < 0.0025 U | 0.028 | 0.0053 | 0.016 J+ | < 0.0022 U | < 0.0022 U | < 0.00081 U | < 0.00081 U | | | | < 0.0021 U | < 0.036 UJ |
| 2-Methylphenol | 0.1 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 U | < 0.89 U |
| 2-Nitroaniline | 5.4 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 2-Nitrophenol | 13 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 U |
| 3,3-Dichlorobenzidine | 0.03 | < 1.0 U | < 0.86 U | < 0.73 U | < 0.72 U | < 0.76 U | < 0.72 U | < 0.75 U | < 0.80 U | < 0.81 U | | | | < 6.1 UJ | < 7.2 UJ |
| 3,4-Methylphenol | NE | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 U | < 0.89 U |
| 3-Nitroaniline | 63 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 U |
| 4-Bromophenyl-phenylether | NE | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 UJ |
| 4-Chloro-3-methylphenol | 630 | < 0.050 U | < 0.043 U | < 0.036 U | < 0.036 U | < 0.038 U | < 0.036 U | < 0.038 U | < 0.040 U | < 0.040 U | | | | < 0.31 UJ | < 0.36 U |
| 4-Chloroaniline | 1 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 U | < 0.89 U |
| 4-Chlorophenyl-phenylether | NE | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| 4-Nitroaniline | 25 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 UJ |
| 4-Nitrophenol | 7 | < 0.50 U | < 0.43 U | < 0.36 U | < 0.36 U | < 0.38 U | < 0.36 U | < 0.38 U | < 0.40 U | < 0.40 U | | | | < 3.1 UJ | < 3.6 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H20-SS01 | H20-SS02 | H21-SB01 | H21-SB02 | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB01 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 |
| | Sample Date | 6/7/2016 | 6/7/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | FD |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Acenaphthene | 20 | 0.41 | 0.013 | 0.0028 | < 0.0022 U | 0.0057 J+ | < 0.0022 U | < 0.0022 U | < 0.00081 U | < 0.00081 U | | | | < 0.0021 U | < 0.036 UJ |
| Acenaphthylene | 29 | 0.15 | 0.0058 | < 0.0022 U | < 0.0022 U | 0.0025 J+ | < 0.0022 U | 0.0030 | 0.0011 | < 0.00081 U | | | | 0.0059 | < 0.036 UJ |
| Anthracene | 6.8 | 0.35 | 0.0074 | 0.0040 | < 0.0022 U | 0.021 J+ | 0.0025 | 0.0057 | 0.0018 | 0.00097 | | | | < 0.0021 U | < 0.036 UJ |
| Benzo(a)anthracene | **0.8** | **0.97** | 0.061 | 0.025 | 0.0027 | 0.10 | 0.0095 | 0.019 | 0.011 | 0.0051 | | | | 0.019 | 0.051 |
| Benzo(a)pyrene | **0.247** | **0.70** | 0.030 | 0.022 | 0.0022 | 0.074 | 0.0089 | 0.020 | 0.013 | 0.0056 | | | | 0.016 | 0.042 |
| Benzo(b)fluoranthene | **1** | **1.4** | 0.068 | 0.048 | 0.0039 | 0.12 | 0.019 | 0.040 | 0.023 | 0.011 | | | | < 0.0021 U | 0.11 |
| Benzo(g,h,i)perylene | 18 | 0.32 | 0.015 | 0.0088 | < 0.0022 U | 0.0042 J+ | < 0.0022 U | < 0.0022 U | 0.0050 | 0.0020 | | | | < 0.0021 U | < 0.036 UJ |
| Benzo(k)fluoranthene | **1** | 0.34 | 0.021 | 0.010 | < 0.0022 U | 0.039 | 0.0076 | 0.0080 | 0.0065 | 0.0025 | | | | < 0.0021 U | < 0.036 UJ |
| Benzoic acid | 25000 | < 0.50 UJ | < 0.43 U | 0.33 J | < 0.36 UJ | 0.37 J | < 0.36 UJ | < 0.38 UJ | 0.65 J | 0.38 J | | | | < 3.1 UJ | 3.5 J |
| Benzyl Alcohol | 630 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | 0.027 J | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Bis(2-chloroethoxy)methane | 19 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Bis(2-chloroethyl)ether | 0.23 | < 0.050 U | < 0.043 U | < 0.036 U | < 0.036 U | < 0.038 U | < 0.036 U | < 0.038 U | < 0.040 U | < 0.040 U | | | | < 0.31 UJ | < 0.36 UJ |
| Bis(2-ethylhexyl)phthalate | 0.02 | < 0.050 U | < 0.043 U | < 0.036 U | < 0.036 U | < 0.038 U | < 0.036 U | < 0.038 U | < 0.040 U | < 0.040 U | | | | < 0.31 UJ | < 0.36 UJ |
| Butyl benzyl phthalate | 0.59 | < 0.050 U | < 0.043 U | < 0.036 U | < 0.036 U | < 0.038 U | < 0.036 U | < 0.038 U | < 0.040 U | < 0.040 U | | | | < 0.31 UJ | < 0.36 UJ |
| CARBAZOLE | 240 | 0.15 J | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Chrysene | **1** | **1.1** | 0.051 | 0.029 | 0.0023 | 0.071 | 0.013 | 0.021 | 0.012 | 0.0051 | | | | 0.014 | 0.039 |
| Dibenz(a,h)anthracene | **0.115** | **0.12** | 0.0045 | 0.0027 | < 0.0022 U | 0.0025 J+ | < 0.0022 U | < 0.0022 U | 0.0015 | < 0.00081 U | | | | < 0.0021 U | < 0.036 UJ |
| Dibenzofuran | **0.15** | **0.16 J** | < 0.022 U | 0.066 J | < 0.018 U | 0.011 J | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Diethyl phthalate | 0.23 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Dimethyl phthalate | 38 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Di-n-butyl phthalate | 0.011 | < 0.050 U | < 0.043 U | < 0.036 U | < 0.036 U | < 0.038 U | < 0.036 U | < 0.038 U | < 0.040 U | < 0.040 U | | | | < 0.31 UJ | < 0.36 UJ |
| Di-n-octyl phthalate | 0.21 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Fluoranthene | **10** | 3.1 | 0.26 | 0.053 | 0.0058 | 0.19 | 0.028 | 0.033 | 0.026 | 0.011 | | | | 0.022 | 0.083 |
| Fluorene | 30 | 0.34 | 0.0076 | 0.0024 | < 0.0022 U | 0.0055 J+ | < 0.0022 U | < 0.0022 U | 0.00099 | < 0.00081 U | | | | < 0.0021 U | < 0.036 UJ |
| Hexachlorobenzene | 0.079 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Hexachlorobutadiene | 0.1 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Hexachloroethane | 0.024 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Indeno(1,2,3-cd)pyrene | **0.5** | 0.34 | 0.015 | 0.0088 | < 0.0022 U | 0.022 J+ | < 0.0022 U | < 0.0022 U | 0.0052 | 0.0024 | | | | < 0.0021 U | < 0.036 UJ |
| Isophorone | 570 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Naphthalene | 1 | 0.12 | < 0.0025 U | 0.023 | 0.0045 | 0.015 J+ | < 0.0022 U | < 0.0022 U | 0.00099 | < 0.00081 U | | | | 0.0027 | < 0.036 U |
| Nitrobenzene | 4.9 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| n-Nitrosodimethylamine | 0.002 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| n-Nitrosodiphenylamine | 20 | < 0.025 U | < 0.022 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.018 U | < 0.019 U | < 0.020 U | < 0.020 U | | | | < 0.15 UJ | < 0.18 UJ |
| Pentachlorophenol | 0.8 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 U |
| Phenanthrene | **5.5** | 0.62 | 0.047 | 0.035 | 0.0031 | 0.082 | 0.0086 | 0.010 | 0.012 | 0.0050 | | | | 0.018 | 0.059 J |
| Phenol | 30 | < 0.13 U | < 0.11 U | < 0.091 U | < 0.090 U | < 0.095 U | < 0.090 U | < 0.094 U | < 0.10 U | < 0.10 U | | | | < 0.77 UJ | < 0.89 U |
| Pyrene | **10** | 2.5 | 0.20 | 0.043 | 0.0046 | 0.15 | 0.022 | 0.027 | 0.020 | 0.0088 | | | | 0.043 | 0.10 |
| Total BaP PAHs Calculated | **0.493** | **1.10** | 0.0492 | 0.0330 | 0.00530 | 0.101 | 0.0143 | 0.0284 | 0.0185 | 0.00829 | | | | 0.0205 | 0.0981 |
| Total HMW PAHs Calculated | **1.791** | **7.5** | 0.44 | 0.19 | 0.022 | 0.54 | 0.079 | 0.13 | 0.091 | 0.041 | | | | 0.10 | 0.45 |
| Total LMW PAHs Calculated | **3.8** | **5.2** | 0.35 | 0.17 | 0.032 | 0.35 | 0.052 | 0.063 | 0.045 | 0.022 | | | | 0.059 | 0.39 |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 |
| | **Location ID** | H20-SS01 | H20-SS02 | H21-SB01 | H21-SB02 | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB01 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 |
| | **Sample Date** | 6/7/2016 | 6/7/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N | N | N | FD |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.07 | < 0.083 UJ | < 0.15 UJ | < 0.070 UJ | < 0.096 UJ | < 0.079 UJ | < 0.070 UJ | < 0.069 UJ | < 0.084 UJ | < 0.079 UJ | | | | < 0.28 U | < 0.33 U |
| 1,1,1-Trichloroethane | 0.04 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,1,2,2-Tetrachloroethane | 0.19 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,1,2-Trichloroethane | 0.15 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,1-Dichloroethane | 0.14 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,1-Dichloroethene | 0.04 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,2,3-Trichloropropane | 0.0051 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,2,4-Trimethylbenzene | 0.09 | | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.28 U | < 0.51 U | < 0.12 U | < 0.16 U | < 0.13 U | < 0.12 U | < 0.11 U | < 0.28 U | < 0.26 U | | | | < 0.95 U | < 1.1 U |
| 1,2-Dibromoethane | 0.036 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,2-Dichloroethane | 0.4 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,2-Dichloropropane | 1 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| 1,3,5-Trimethylbenzene | 0.16 | | | | | | | | | | | | | | |
| 2-Butanone | 100 | < 0.69 U | < 1.3 U | < 0.58 U | < 0.80 U | < 0.66 U | < 0.58 U | < 0.57 U | < 0.70 U | < 0.66 U | | | | < 2.4 U | < 2.7 U |
| 2-Hexanone | 20 | < 0.14 U | < 0.25 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.14 U | < 0.13 U | | | | < 0.47 U | < 0.55 U |
| 4-Isopropyltoluene | 0.18 | | | | | | | | | | | | | | |
| Acetone | 100 | 0.24 J | 0.49 J | 0.14 J | 0.27 J | 0.23 J | 0.17 J | 0.27 J | 0.19 J | < 0.26 U | | | | 2.4 | 0.78 J |
| Benzene | 0.12 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Bromodichloromethane | 0.29 | < 0.083 UJ | < 0.15 UJ | < 0.070 UJ | < 0.096 UJ | < 0.079 UJ | < 0.070 UJ | < 0.069 UJ | < 0.084 UJ | < 0.079 UJ | | | | < 0.28 U | < 0.33 U |
| Bromoform | 0.07 | < 0.083 UJ | < 0.15 UJ | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 UJ | < 0.079 UJ | | | | < 0.28 UJ | < 0.33 UJ |
| Carbon disulfide | 77 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Carbon tetrachloride | 0.05 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Chlorobenzene | 28 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Chloroethane | 1400 | < 0.28 U | < 0.51 U | < 0.47 UJ | < 0.64 UJ | < 0.53 UJ | < 0.46 UJ | < 0.46 UJ | < 0.28 U | < 0.26 U | | | | < 0.95 U | < 1.1 U |
| Chloroform | 0.05 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Chloromethane | 11 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| cis-1,2-Dichloroethene | 0.04 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| cis-1,3-Dichloropropene | NE | < 0.083 UJ | < 0.15 UJ | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 UJ | < 0.079 UJ | | | | < 0.28 U | < 0.33 U |
| Dibromochloromethane | 8.3 | < 0.083 UJ | < 0.15 UJ | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 UJ | < 0.079 UJ | | | | < 0.28 U | < 0.33 U |
| Dichlorodifluoromethane | 8.7 | < 0.28 U | < 0.51 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.28 U | < 0.26 U | | | | < 0.95 U | < 1.1 U |
| Ethylbenzene | 0.27 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Isopropylbenzene | 0.04 | | | | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | | | | |
| Methylene chloride | 2.6 | < 0.14 U | < 0.25 U | 0.054 J | 0.072 J | < 0.079 U | 0.064 J | 0.064 J | < 0.14 U | 0.13 J | | | | < 0.47 U | < 0.55 U |
| Naphthalene | 1 | | | | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | | | | |
| Styrene | 1.2 | < 0.083 UJ | < 0.15 UJ | < 0.070 UJ | < 0.096 UJ | < 0.079 UJ | < 0.070 UJ | < 0.069 UJ | < 0.084 UJ | < 0.079 UJ | | | | < 0.28 U | < 0.33 U |
| tert-Butylbenzene | 100 | | | | | | | | | | | | | | |
| Tetrachloroethene | 0.06 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |

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FD - Field duplicate.
ft - feet.
J - Estimated value.
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PAH - Polycyclic Aromatic Hydrocarbon.
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SVOC - Semivolatile Organic Compound.
R - Rejected.
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1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H20-SS01 | H20-SS02 | H21-SB01 | H21-SB02 | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB01 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 |
| | Sample Date | 6/7/2016 | 6/7/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | FD |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Toluene | 0.15 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| trans-1,2-Dichloroethene | 0.04 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| trans-1,3-Dichloropropene | 1.8 | < 0.083 UJ | < 0.15 UJ | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 UJ | < 0.079 UJ | | | | < 0.28 U | < 0.33 U |
| Trichloroethene | 0.41 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Trichlorofluoromethane | 52 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Vinyl Acetate | 91 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Vinyl chloride | 0.059 | < 0.083 U | < 0.15 U | < 0.070 U | < 0.096 U | < 0.079 U | < 0.070 U | < 0.069 U | < 0.084 U | < 0.079 U | | | | < 0.28 U | < 0.33 U |
| Xylenes (total) | 0.1 | < 0.25 U | < 0.46 U | < 0.18 U | < 0.24 U | < 0.20 U | < 0.17 U | < 0.17 U | < 0.25 U | < 0.24 U | | | | < 0.85 U | < 0.99 U |

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**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H9 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H5-SS02 | H5-SS03 | H5-SS04 | H6-SB01 | H6-SB02 | H6-SB03 | H9-SS01 | P113-SB02 | P113-SB03 | WDS-SB01 | WDS-SB04 | WDS-SB05 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/6/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | | |
| Nitrobenzene | 4.9 | | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | |
| Aluminum | 27822 | 8100 | | | | | | 12000 | | | 12000 | 8200 | 8200 |
| Antimony | **5.6** | 1.1 J | | | | | | 4.4 | | | 4.5 | 2.4 | 2.4 |
| Arsenic | **3.383** | 2.7 J | | | | | | 2.8 | | | 2.7 | 1.7 | 1.6 |
| Barium | 330 | 86 | | | | | | 29 | | | 47 | 30 | 25 |
| Beryllium | **10** | 0.43 J | | | | | | 0.46 | | | 0.14 J | 0.12 J | 0.069 J |
| Cadmium | **0.36** | **0.53 J** | | | | | | 0.043 J | | | 0.096 J | 0.050 J | 0.13 J |
| Calcium (Ca) | **751.8** | **800** | | | | | | 600 | | | **1100** | 470 | 420 |
| Chromium | 33.92 | 5.0 J | | | | | | 15 | | | 17 | 12 | 13 |
| Cobalt | **4.85** | 0.90 J | | | | | | 4.6 | | | 4.6 | 2.5 | 2.4 |
| Copper | 57.2 | 18 J | | | | | | 40 | | | 39 | 27 | 26 |
| Iron (Fe) | 19000 | 2200 | | | | | | 19000 | | | 14000 | 11000 | 9600 |
| Lead | **11** | **27** | **18** | 7.7 J | **15** | 3.0 J | 7.5 J | 4.8 | 4.3 | 7.4 | **16** | 3.9 | 6.0 |
| Magnesium (Mg) | **3186** | 230 J | | | | | | 1600 | | | 3100 | 1500 | 1100 |
| Manganese (Mn) | **180** | 20 J | | | | | | **440** | | | **260** | 130 | 120 |
| Nickel | 30 | 4.3 J | | | | | | 9.1 | | | 10 | 6.6 | 7.7 |
| Potassium (K) | NE | 260 J | | | | | | 990 | | | 1800 | 870 | 590 |
| Selenium | **0.77** | < 3.7 UJ | | | | | | < 1.3 U | | | < 1.2 U | < 1.1 U | < 1.1 U |
| Silver | **2** | 0.23 J | | | | | | < 0.21 U | | | < 0.20 U | < 0.19 U | 0.10 J |
| Sodium (Na) | **122.5** | **220 J** | | | | | | 66 | | | **160** | 72 | 70 |
| Thallium | **0.14** | < 0.12 U | | | | | | 0.060 J | | | 0.12 J | 0.11 J | 0.085 J |
| Vanadium | 46.28 | 9.5 J | | | | | | 26 | | | 24 | 18 | 16 |
| Zinc | **46** | **50 J** | | | | | | 20 | | | 37 | 17 | 24 |

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1. See Table 2 for selected surface soil criteria without petroleum criteria.
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**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H9 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
| | **Location ID** | H5-SS02 | H5-SS03 | H5-SS04 | H6-SB01 | H6-SB02 | H6-SB03 | H9-SS01 | P113-SB02 | P113-SB03 | WDS-SB01 | WDS-SB04 | WDS-SB05 |
| | **Sample Date** | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/6/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1221 | 0.2 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1232 | 0.17 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1242 | 0.041 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1248 | 0.0072 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1254 | 0.041 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1260 | 0.24 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1262 | 0.24 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| Aroclor 1268 | 0.24 | < 0.024 UJ | < 0.028 UJ | < 0.041 U | < 0.020 UJ | < 0.0083 U | < 0.030 UJ | | | | < 0.0083 U | < 0.0074 U | < 0.0074 U |
| **SVOCs** | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.27 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 1,2-Dichlorobenzene | 0.09 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 1,3-Dichlorobenzene | 0.08 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 1,4-Dichlorobenzene | 0.88 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | 0.013 J |
| 1-Methylnaphthalene | 18 | 0.0043 J | | | | | | < 0.017 U | | | 0.0084 | 0.0012 J+ | 0.0045 J+ |
| 2,4,5-Trichlorophenol | 4 | < 1.8 UJ | | | | | | | | | < 0.62 UJ | < 0.037 U | < 0.037 U |
| 2,4,6-Trichlorophenol | 6.3 | < 1.8 UJ | | | | | | | | | < 0.62 UJ | < 0.037 U | < 0.037 U |
| 2,4-Dichlorophenol | 0.05 | < 4.4 UJ | | | | | | | | | < 1.5 UJ | < 0.093 U | < 0.093 U |
| 2,4-Dimethylphenol | 0.04 | < 4.4 UJ | | | | | | | | | < 1.5 UJ | < 0.093 U | < 0.093 U |
| 2,4-Dinitrophenol | 0.15 | < 8.9 UJ | | | | | | | | | < 3.1 UJ | < 0.19 U | < 0.19 U |
| 2,4-Dinitrotoluene | 1.7 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 2,6-Dinitrotoluene | 0.36 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 2-Chloronaphthalene | 480 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 2-Chlorophenol | 0.06 | < 4.4 UJ | | | | | | | | | < 1.5 UJ | < 0.093 U | < 0.093 U |
| 2-Methylnaphthalene | 16 | 0.0041 J | | | | | | < 0.017 U | | | 0.0066 | 0.0016 J+ | 0.0062 J+ |
| 2-Methylphenol | 0.1 | < 4.4 U | | | | | | | | | < 1.5 U | < 0.093 U | < 0.093 U |
| 2-Nitroaniline | 5.4 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 2-Nitrophenol | 13 | < 4.4 UJ | | | | | | | | | < 1.5 UJ | < 0.093 U | < 0.093 U |
| 3,3-Dichlorobenzidine | 0.03 | < 35 UJ | | | | | | | | | < 12 U | < 0.74 U | < 0.74 U |
| 3,4-Methylphenol | NE | < 4.4 U | | | | | | | | | < 1.5 U | < 0.093 U | < 0.093 U |
| 3-Nitroaniline | 63 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 4.4 UJ | | | | | | | | | < 1.5 UJ | < 0.093 U | < 0.093 U |
| 4-Bromophenyl-phenylether | NE | < 4.4 UJ | | | | | | | | | < 1.5 U | < 0.093 U | < 0.093 U |
| 4-Chloro-3-methylphenol | 630 | < 1.8 UJ | | | | | | | | | < 0.62 UJ | < 0.037 U | < 0.037 U |
| 4-Chloroaniline | 1 | < 4.4 U | | | | | | | | | < 1.5 U | < 0.093 U | < 0.093 U |
| 4-Chlorophenyl-phenylether | NE | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| 4-Nitroaniline | 25 | < 4.4 UJ | | | | | | | | | < 1.5 U | < 0.093 U | < 0.093 U |
| 4-Nitrophenol | 7 | < 18 UJ | | | | | | | | | < 6.2 UJ | < 0.37 U | < 0.37 U |

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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H9 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
| | **Location ID** | H5-SS02 | H5-SS03 | H5-SS04 | H6-SB01 | H6-SB02 | H6-SB03 | H9-SS01 | P113-SB02 | P113-SB03 | WDS-SB01 | WDS-SB04 | WDS-SB05 |
| | **Sample Date** | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/6/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | |
| Acenaphthene | 20 | 0.0030 J | | | | | | 0.018 | < 0.00079 U | < 0.00093 U | 0.037 | 0.00089 J+ | 0.013 J+ |
| Acenaphthylene | 29 | 0.0070 J | | | | | | < 0.017 U | 0.0015 | < 0.00093 U | 0.018 | 0.0066 J+ | 0.0074 J+ |
| Anthracene | 6.8 | 0.0098 J | | | | | | 0.079 | 0.0012 | < 0.00093 U | 0.095 | 0.0075 J+ | 0.056 |
| Benzo(a)anthracene | **0.8** | 0.047 | | | | | | 0.24 | 0.0047 | 0.0029 | 0.27 | 0.017 | 0.24 |
| Benzo(a)pyrene | **0.247** | 0.037 | | | | | | 0.18 | 0.0037 | 0.0030 | **0.26** | 0.019 | 0.18 |
| Benzo(b)fluoranthene | **1** | 0.092 | | | | | | 0.25 | 0.0097 | 0.010 | 0.39 | 0.064 | 0.32 |
| Benzo(g,h,i)perylene | 18 | 0.018 J | | | | | | 0.10 | 0.0023 | < 0.00093 U | 0.018 | < 0.00075 U | < 0.015 U |
| Benzo(k)fluoranthene | **1** | 0.019 J | | | | | | 0.095 | 0.0016 | 0.0014 | 0.14 | 0.023 | 0.13 |
| Benzoic acid | 25000 | < 18 UJ | | | | | | | | | < 6.2 UJ | 0.18 J | 0.20 J |
| Benzyl Alcohol | 630 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Bis(2-chloroethoxy)methane | 19 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Bis(2-chloroethyl)ether | 0.23 | < 1.8 UJ | | | | | | | | | < 0.62 U | < 0.037 U | < 0.037 U |
| Bis(2-ethylhexyl)phthalate | 0.02 | < 1.8 UJ | | | | | | | | | < 0.62 U | < 0.037 U | < 0.037 U |
| Butyl benzyl phthalate | 0.59 | < 1.8 UJ | | | | | | | | | < 0.62 U | < 0.037 U | < 0.037 U |
| CARBAZOLE | 240 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | 0.016 J |
| Chrysene | **1** | 0.037 | | | | | | 0.17 | 0.0032 | 0.0032 | 0.24 | 0.044 | 0.20 |
| Dibenz(a,h)anthracene | **0.115** | 0.0028 J | | | | | | 0.037 | < 0.00079 U | < 0.00093 U | 0.0087 | < 0.00075 U | 0.013 J+ |
| Dibenzofuran | **0.15** | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Diethyl phthalate | 0.23 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Dimethyl phthalate | 38 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Di-n-butyl phthalate | 0.011 | < 1.8 UJ | | | | | | | | | < 0.62 U | < 0.037 U | < 0.037 U |
| Di-n-octyl phthalate | 0.21 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Fluoranthene | **10** | 0.076 | | | | | | 0.52 | 0.0061 | 0.0044 | 0.53 | 0.10 | 0.46 |
| Fluorene | 30 | 0.0052 J | | | | | | 0.023 | < 0.00079 U | < 0.00093 U | 0.038 | 0.0014 J+ | 0.014 J+ |
| Hexachlorobenzene | 0.079 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Hexachlorobutadiene | 0.1 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Hexachloroethane | 0.024 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Indeno(1,2,3-cd)pyrene | **0.5** | 0.015 J | | | | | | 0.10 | 0.0019 | < 0.00093 U | 0.10 | 0.0085 J+ | 0.045 |
| Isophorone | 570 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Naphthalene | 1 | < 0.0025 U | | | | | | < 0.017 U | | | 0.013 | 0.0022 J+ | 0.0069 J+ |
| Nitrobenzene | 4.9 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| n-Nitrosodimethylamine | 0.002 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| n-Nitrosodiphenylamine | 20 | < 0.89 UJ | | | | | | | | | < 0.31 U | < 0.019 U | < 0.019 U |
| Pentachlorophenol | 0.8 | < 4.4 UJ | | | | | | | | | < 1.5 UJ | < 0.093 U | < 0.093 U |
| Phenanthrene | **5.5** | 0.0066 J | | | | | | 0.20 | 0.0045 | < 0.00093 U | 0.27 | 0.039 | 0.18 |
| Phenol | 30 | < 4.4 UJ | | | | | | | | | < 1.5 UJ | < 0.093 U | < 0.093 U |
| Pyrene | **10** | 0.097 | | | | | | 0.32 | 0.0084 | 0.0066 | 0.45 | 0.098 | 0.46 |
| Total BaP PAHs Calculated | **0.493** | 0.0554 | | | | | | 0.277 | 0.00614 | 0.00533 | 0.346 | 0.0290 | 0.255 |
| Total HMW PAHs Calculated | **1.791** | 0.35 | | | | | | 1.4 | 0.035 | 0.028 | 1.7 | 0.25 | 1.5 |
| Total LMW PAHs Calculated | **3.8** | 0.12 | | | | | | 0.91 | 0.015 | 0.0091 | 1.0 | 0.16 | 0.75 |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
R - Rejected.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 2 for selected surface soil criteria without petroleum criteria.
**Surface Criteria exceedances are highlighted and bolded**

**Table 6**
**Preliminary Screening of Surface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H9 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
| | **Location ID** | H5-SS02 | H5-SS03 | H5-SS04 | H6-SB01 | H6-SB02 | H6-SB03 | H9-SS01 | P113-SB02 | P113-SB03 | WDS-SB01 | WDS-SB04 | WDS-SB05 |
| | **Sample Date** | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/6/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.07 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 UJ | < 0.067 UJ |
| 1,1,1-Trichloroethane | 0.04 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,1,2,2-Tetrachloroethane | 0.19 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,1,2-Trichloroethane | 0.15 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,1-Dichloroethane | 0.14 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,1-Dichloroethene | 0.04 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,2,3-Trichloropropane | 0.0051 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,2,4-Trimethylbenzene | 0.09 | | | | | | | | < 0.089 UJ | < 0.083 U | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.92 U | | | | | | | | | < 0.0024 U | < 0.11 U | < 0.11 U |
| 1,2-Dibromoethane | 0.036 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,2-Dichloroethane | 0.4 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,2-Dichloropropane | 1 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| 1,3,5-Trimethylbenzene | 0.16 | | | | | | | | < 0.089 U | < 0.083 U | | | |
| 2-Butanone | 100 | < 2.3 U | | | | | | | | | 0.017 J | < 0.53 U | < 0.56 U |
| 2-Hexanone | 20 | < 0.46 U | | | | | | | | | < 0.0024 U | < 0.063 U | < 0.067 U |
| 4-Isopropyltoluene | 0.18 | | | | | | | | < 0.089 UJ | < 0.083 U | | | |
| Acetone | 100 | 0.83 J | | | | | | | | | 0.22 J | 0.11 J | < 0.45 U |
| Benzene | 0.12 | < 0.28 U | | | | | | | < 0.089 U | < 0.083 U | < 0.00072 U | < 0.063 U | < 0.067 U |
| Bromodichloromethane | 0.29 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 UJ | < 0.067 UJ |
| Bromoform | 0.07 | < 0.28 UJ | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Carbon disulfide | 77 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Carbon tetrachloride | 0.05 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Chlorobenzene | 28 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Chloroethane | 1400 | < 0.92 U | | | | | | | | | < 0.0012 U | < 0.42 UJ | < 0.45 UJ |
| Chloroform | 0.05 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Chloromethane | 11 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| cis-1,2-Dichloroethene | 0.04 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| cis-1,3-Dichloropropene | NE | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 UJ | < 0.067 U |
| Dibromochloromethane | 8.3 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Dichlorodifluoromethane | 8.7 | < 0.92 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Ethylbenzene | 0.27 | < 0.28 U | | | | | | | < 0.089 U | < 0.083 U | < 0.00072 U | < 0.063 U | < 0.067 U |
| Isopropylbenzene | 0.04 | | | | | | | | < 0.089 U | < 0.083 U | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | < 0.089 U | < 0.083 U | | | |
| Methylene chloride | 2.6 | < 0.46 U | | | | | | | | | < 0.0024 U | < 0.063 U | 0.055 J |
| Naphthalene | 1 | | | | | | | | < 0.089 UJ | < 0.083 U | | | |
| n-Butylbenzene | 100 | | | | | | | | < 0.089 U | < 0.083 U | | | |
| n-Propylbenzene | 100 | | | | | | | | < 0.089 U | < 0.083 U | | | |
| sec-Butylbenzene | 100 | | | | | | | | < 0.089 U | < 0.083 U | | | |
| Styrene | 1.2 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 UJ | < 0.067 UJ |
| tert-Butylbenzene | 100 | | | | | | | | < 0.089 U | < 0.083 U | | | |
| Tetrachloroethene | 0.06 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |

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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H6 | CH-AOC-H9 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H5-SS02 | H5-SS03 | H5-SS04 | H6-SB01 | H6-SB02 | H6-SB03 | H9-SS01 | P113-SB02 | P113-SB03 | WDS-SB01 | WDS-SB04 | WDS-SB05 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/6/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 |
| | Depth Interval | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | | |
| Toluene | 0.15 | < 0.28 U | | | | | | | < 0.089 U | < 0.083 U | < 0.00072 U | < 0.063 U | < 0.067 U |
| trans-1,2-Dichloroethene | 0.04 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| trans-1,3-Dichloropropene | 1.8 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 UJ | < 0.067 U |
| Trichloroethene | 0.41 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Trichlorofluoromethane | 52 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Vinyl Acetate | 91 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Vinyl chloride | 0.059 | < 0.28 U | | | | | | | | | < 0.00072 U | < 0.063 U | < 0.067 U |
| Xylenes (total) | 0.1 | < 0.83 U | | | | | | | < 0.27 U | < 0.25 U | < 0.0022 U | < 0.16 U | < 0.17 U |

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**Surface Criteria exceedances are highlighted and bolded**

**Table 7**
**Preliminary Screening of Surface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-AST35 | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-MP | CH-AOC-MP | CH-AOC-MP | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB |
| | **Location ID** | AST35-SB03 | FPH-SB01 | FPH-SB01 | FPH-SB02 | FPH-SB03 | MP-SB02 | MP-SB02 | MP-SB03 | STB-SS05 | STB-SS06 | STB-SS07 |
| | **Sample Date** | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | FD | N | N | N | FD | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 2-Nitrotoluene | 3.2 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 3-Nitrotoluene | 0.63 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| 4-Nitrotoluene | 25 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| Nitrobenzene | 3.7 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | < 0.039 U | < 0.037 U | < 0.040 U | | | |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1221 | 0.2 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1232 | 0.17 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1242 | 0.041 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1248 | 0.0072 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1254 | 0.041 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1260 | 0.24 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1262 | 0.24 | | | | | | | | < 0.0074 U | | | |
| Aroclor 1268 | 0.24 | | | | | | | | < 0.0074 U | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.27 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 1,2-Dichlorobenzene | 0.09 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 1,3-Dichlorobenzene | 0.08 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 1,4-Dichlorobenzene | 0.88 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 2,4,5-Trichlorophenol | 4 | | | | | | < 0.035 U | < 0.035 U | < 0.036 U | | | |
| 2,4,6-Trichlorophenol | 6.3 | | | | | | < 0.035 U | < 0.035 U | < 0.036 U | | | |
| 2,4-Dichlorophenol | 0.05 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 2,4-Dimethylphenol | 0.04 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 2,4-Dinitrophenol | 0.15 | | | | | | < 0.18 U | < 0.18 U | < 0.18 U | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 2-Chloronaphthalene | 480 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 2-Chlorophenol | 0.06 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 2-Methylphenol | 0.1 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 2-Nitroaniline | 5.4 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 2-Nitrophenol | 7 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 3,3-Dichlorobenzidine | 0.03 | | | | | | < 0.70 UJ | < 0.71 UJ | < 0.72 UJ | | | |
| 3,4-Methylphenol | NE | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 3-Nitroaniline | 63 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 4-Bromophenyl-phenylether | NE | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 4-Chloro-3-methylphenol | 630 | | | | | | < 0.035 U | < 0.035 U | < 0.036 U | | | |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
VOC - Volatile Organic Compound.
1. See Table 3 for selected surface soil criteria with petroleum criteria included.
**Surface Criteria exceedances are highlighted and bolded**

**Table 7**
**Preliminary Screening of Surface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-AST35 | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-MP | CH-AOC-MP | CH-AOC-MP | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB |
| | **Location ID** | AST35-SB03 | FPH-SB01 | FPH-SB01 | FPH-SB02 | FPH-SB03 | MP-SB02 | MP-SB02 | MP-SB03 | STB-SS05 | STB-SS06 | STB-SS07 |
| | **Sample Date** | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | FD | N | N | N | FD | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| 4-Chloroaniline | 1 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 4-Chlorophenyl-phenylether | NE | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| 4-Nitroaniline | 25 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| 4-Nitrophenol | 7 | | | | | | < 0.35 U | < 0.35 U | < 0.36 U | | | |
| Acenaphthene | 20 | < 0.00076 U | **0.0030** | **0.0035** | **0.0036** | **0.0013** | **0.0071 J** | **0.055 J** | **0.0037 J-** | **0.00079** | **0.00096** | **0.0010** |
| Acenaphthylene | 29 | < 0.00076 U | < 0.00074 U | < 0.00076 U | **0.0019** | **0.0030** | < 0.00071 UJ | **0.0029 J** | < 0.0022 UJ | < 0.00075 U | < 0.00077 U | **0.0018** |
| Anthracene | 6.8 | **0.00095** | **0.0039 J** | **0.0072 J** | **0.0076** | **0.12** | **0.018 J** | **0.16 J** | **0.0055 J-** | **0.0021** | **0.0023** | **0.0026** |
| Benzo(a)anthracene | 0.8 | **0.0061** | **0.0021 J** | **0.025 J** | **0.033** | **0.011** | **0.046 J** | **0.32 J** | **0.025 J-** | **0.011** | **0.016** | **0.017** |
| Benzo(a)pyrene | 0.247 | **0.0046** | **0.0016 J** | **0.015 J** | **0.023** | **0.0081** | **0.032 J** | **0.24 J** | **0.020 J-** | **0.0095** | **0.015** | **0.015** |
| Benzo(b)fluoranthene | 1 | **0.0080** | **0.0035 J** | **0.026 J** | **0.038** | **0.017** | **0.054 J** | **0.34 J** | **0.026 J-** | **0.017** | **0.024** | **0.024** |
| Benzo(g,h,i)perylene | 18 | **0.0036** | **0.0016 J** | **0.0090 J** | **0.016** | **0.0074** | **0.022 J** | **0.093 J** | **0.0022 J-** | < 0.00075 U | < 0.00077 U | **0.0067** |
| Benzo(k)fluoranthene | 0.8 | **0.0017** | **0.0010 J** | **0.0047 J** | **0.013** | **0.0036** | **0.021 J** | **0.14 J** | **0.014 J-** | **0.0036** | **0.0071** | **0.011** |
| Benzoic acid | 100 | | | | | | < 0.35 U | < 0.35 U | < 0.36 U | | | |
| Benzyl Alcohol | 630 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Bis(2-chloroethoxy)methane | 19 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Bis(2-chloroethyl)ether | 0.23 | | | | | | < 0.035 U | < 0.035 U | < 0.036 U | | | |
| Bis(2-ethylhexyl)phthalate | 0.02 | | | | | | < 0.035 U | < 0.035 U | < 0.036 U | | | |
| Butyl benzyl phthalate | 0.59 | | | | | | < 0.035 U | < 0.035 U | < 0.036 U | | | |
| CARBAZOLE | 240 | | | | | | < 0.018 UJ | **0.058 J** | < 0.018 U | | | |
| Chrysene | 1 | **0.0041** | **0.0019 J** | **0.015 J** | **0.025** | **0.0090** | **0.033 J** | **0.26 J** | **0.021 J-** | **0.011** | **0.016** | **0.015** |
| Dibenz(a,h)anthracene | 0.115 | **0.00083** | < 0.00074 UJ | **0.0039 J** | **0.0046** | **0.0018** | **0.0096** | **0.015** | < 0.0022 UJ | < 0.00075 U | < 0.00077 U | < 0.00081 U |
| Dibenzofuran | 0.15 | | | | | | < 0.018 UJ | **0.030 J** | < 0.018 U | | | |
| Diethyl phthalate | 0.23 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Dimethyl phthalate | 38 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Di-n-butyl phthalate | 0.011 | | | | | | < 0.035 U | < 0.035 U | < 0.036 U | | | |
| Di-n-octyl phthalate | 0.21 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Fluoranthene | 10 | **0.0087** | **0.0041 J** | **0.046 J** | **0.058** | **0.015** | **0.099 J** | **0.76 J** | **0.055 J-** | **0.025** | **0.036** | **0.036** |
| Fluorene | 30 | < 0.00076 U | **0.0030** | **0.0041** | **0.0056** | < 0.00084 U | **0.0072 J** | **0.062 J** | **0.0033 J-** | **0.00080** | **0.00097** | **0.0012** |
| Hexachlorobenzene | 0.079 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Hexachlorobutadiene | 0.1 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Hexachloroethane | 0.024 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Indeno(1,2,3-cd)pyrene | 0.5 | **0.0030** | **0.0013 J** | **0.0076 J** | **0.014** | **0.0062** | **0.022 J** | **0.12 J** | < 0.0022 UJ | **0.0062** | **0.0081** | **0.0067** |
| Isophorone | 100 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Nitrobenzene | 3.7 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| n-Nitrosodimethylamine | 0.002 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| n-Nitroso-di-n-propylamine | 0.078 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| n-Nitrosodiphenylamine | 20 | | | | | | < 0.018 U | < 0.018 U | < 0.018 U | | | |
| Pentachlorophenol | 0.8 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| Phenanthrene | 5.5 | **0.0068** | **0.0047 J** | **0.037 J** | **0.053** | **0.030** | **0.058 J** | **0.51 J** | **0.033 J-** | **0.010** | **0.015** | **0.015** |
| Phenol | 30 | | | | | | < 0.088 U | < 0.089 U | < 0.090 U | | | |
| Pyrene | 10 | **0.0088** | **0.0039 J** | **0.038 J** | **0.049** | **0.018** | **0.074 J** | **0.57 J** | **0.044 J-** | **0.020** | **0.030** | **0.031** |
| Total BaP PAHs Calculated | 0.493 | **0.00716** | **0.00304** | **0.0248** | **0.0363** | **0.0134** | **0.0540** | **0.335** | **0.0277** | **0.0137** | **0.0207** | **0.0207** |
| Total HMW PAHs Calculated | **1.791** | **0.039** | **0.017** | **0.14** | **0.20** | **0.079** | **0.29** | **2.0** | **0.14** | **0.076** | **0.11** | **0.12** |
| Total LMW PAHs Calculated | 3.8 | **0.019** | **0.019** | **0.099** | **0.13** | **0.17** | **0.19** | **1.5** | **0.10** | **0.039** | **0.056** | **0.058** |
| **VOCs** | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 0.09 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 UJ | < 0.084 UJ | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| 1,3,5-Trimethylbenzene | 0.16 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| 4-Isopropyltoluene | 0.18 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
VOC - Volatile Organic Compound.
1. See Table 3 for selected surface soil criteria with petroleum criteria included.
**Surface Criteria exceedances are highlighted and bolded**

**Table 7**
**Preliminary Screening of Surface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | **Location Group** | CH-AOC-AST35 | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-MP | CH-AOC-MP | CH-AOC-MP | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location ID** | AST35-SB03 | FPH-SB01 | FPH-SB01 | FPH-SB02 | FPH-SB03 | MP-SB02 | MP-SB02 | MP-SB03 | STB-SS05 | STB-SS06 | STB-SS07 |
| | **Sample Date** | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | **Depth Interval** | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft | 0 - 1 ft |
| | **Sample Type** | N | FD | N | N | N | FD | N | N | N | N | N |
| **Chemical** | **Surface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Benzene | 0.06 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| Ethylbenzene | 0.27 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| Isopropylbenzene | 0.04 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| Methyl tert-butyl ether | 0.93 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| Naphthalene | 1 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 UJ | < 0.066 U | < 0.069 U | < 0.062 U |
| n-Butylbenzene | 12 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| n-Propylbenzene | 3.9 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| sec-Butylbenzene | 11 | < 0.00082 U | < 0.00092 U | < 0.0011 U | < 0.058 U | < 0.084 U | < 0.00096 U | < 0.00088 U | < 0.0016 U | < 0.066 U | < 0.069 U | < 0.062 U |
| tert-Butylbenzene | 5.9 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| Toluene | 0.15 | < 0.00049 U | < 0.00055 U | < 0.00065 U | < 0.058 U | < 0.084 U | < 0.00058 U | < 0.00053 U | < 0.00095 U | < 0.066 U | < 0.069 U | < 0.062 U |
| Xylenes (total) | 0.1 | < 0.0015 U | < 0.0017 U | < 0.0020 U | < 0.18 U | < 0.25 U | < 0.0017 U | < 0.0016 U | < 0.0029 U | < 0.20 U | < 0.21 U | < 0.19 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
VOC - Volatile Organic Compound.
1. See Table 3 for selected surface soil criteria with petroleum criteria included.
**Surface Criteria exceedances are highlighted and bolded**

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**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-201 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 034-SB01 | 034-SS02 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS04 | 034-SS05 | 201-SB01 | 2010-SB01 | 2010-SB01 | 2010-SB01 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/16/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | Sample Type | N | FD | N | N | FD | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | |
| Nitrobenzene | 5.1 | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | 27822 | **16000** | **16000** | **16000** | **5000** | **7400** | **8700** | **12000** | **5100** | | | |
| Antimony | 10.3 | **1.9** | **2.5** | **2.3** | **2.3** | **2.1** | **2.2** | **2.0** | **2.3** | | | |
| Arsenic | **3.383** | **1.9** | **1.5 J** | **2.4** | **1.9** | **1.6** | **1.5** | **2.2** | **1.3 J** | | | |
| Barium | 350 | **26** | **28** | **22** | **7.8** | **33** | **41** | **18** | **28** | | | |
| Beryllium | 14 | **0.091 J** | < 0.040 UJ | **0.019 J** | < 0.035 U | < 0.035 U | < 0.036 U | < 0.040 U | < 0.035 U | | | |
| Cadmium | 2.5 | **0.21** | **0.029 J** | < 0.041 UJ | < 0.035 U | < 0.035 U | < 0.036 U | < 0.040 U | **0.030 J** | | | |
| Calcium (Ca) | **751.8** | **1800** | **1100** | **1100** | **490** | **480** | **460** | **530** | **730** | | | |
| Chromium | **33.92** | **15** | **15** | **15** | **8.2** | **13** | **12** | **15** | **8.9** | | | |
| Cobalt | 10.24 | **2.1** | **2.7** | **2.5** | **2.4** | **2.3** | **2.3** | **2.2** | **2.3** | | | |
| Copper | 270 | **18** | **19** | **27** | **20** | **25** | **28** | **21** | **21** | | | |
| Iron (Fe) | **19000** | **8300** | **8900** | **14000** | **9800** | **12000** | **13000** | **9400** | **8600** | | | |
| Lead | 400 | **5.2** | **5.1** | **5.7** | **1.7 J** | **2.2 J** | **2.4 J** | **3.9 J** | **1.1 J** | **4.0** | **4.6** | **4.9** |
| Magnesium (Mg) | 8315 | **1600** | **1900** | **1800** | **700** | **1300** | **1500** | **1500** | **1500** | | | |
| Manganese (Mn) | 656.8 | **130** | **120** | **120** | **100** | **210** | **230** | **120** | **100** | | | |
| Nickel | 140 | **7.9** | **8.3** | **7.6** | **3.4 J** | **5.0** | **5.3** | **7.9** | **4.8** | | | |
| Potassium (K) | NE | **730** | **900** | **760** | **310** | **930** | **1200** | **610** | **1200** | | | |
| Selenium | 36 | < 1.3 U | < 1.2 U | < 1.2 U | < 1.1 U | < 1.1 U | < 1.1 U | < 1.2 U | < 1.1 U | | | |
| Silver | 36 | < 0.21 U | < 0.20 U | < 0.20 U | < 0.18 U | < 0.18 U | < 0.18 U | < 0.20 U | < 0.18 U | | | |
| Sodium (Na) | **320** | **100** | **94** | **92** | **53** | **84** | **84** | **67** | **120** | | | |
| Thallium | 0.414 | **0.058 J** | **0.090 J** | **0.068 J** | **0.035 J** | **0.086 J** | **0.10 J** | **0.067 J** | **0.062 J** | | | |
| Vanadium | **46.28** | **25** | **21** | **29** | **14** | **17** | **18** | **24** | **13** | | | |
| Zinc | 2200 | **19** | **20** | **21** | **7.4** | **13** | **13** | **16** | **9.8** | | | |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1221 | 0.2 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1232 | 0.17 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1242 | 0.23 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1248 | 0.23 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1254 | 0.12 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1260 | 0.24 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1262 | 0.24 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |
| Aroclor 1268 | 0.24 | < 0.0090 U | < 0.0081 U | < 0.0084 U | < 0.0071 U | < 0.0072 U | < 0.0073 U | < 0.0080 U | < 0.0071 U | | | |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-201 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 034-SB01 | 034-SS02 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS04 | 034-SS05 | 201-SB01 | 2010-SB01 | 2010-SB01 | 2010-SB01 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/16/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | Sample Type | N | FD | N | N | FD | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | | | | | | | | < 0.018 U | | | |
| 1,2-Dichlorobenzene | 100 | | | | | | | | < 0.018 U | | | |
| 1,3-Dichlorobenzene | 17 | | | | | | | | < 0.018 U | | | |
| 1,4-Dichlorobenzene | 2.6 | | | | | | | | < 0.018 U | | | |
| 1-Methylnaphthalene | 18 | < 0.00089 U | < 0.00081 U | < 0.00084 U | < 0.00071 U | < 0.00072 U | < 0.00072 U | < 0.00082 U | < 0.0073 U | | | |
| 2,4,5-Trichlorophenol | 630 | | | | | | | | < 0.036 U | | | |
| 2,4,6-Trichlorophenol | 6.3 | | | | | | | | < 0.036 U | | | |
| 2,4-Dichlorophenol | 19 | | | | | | | | < 0.091 U | | | |
| 2,4-Dimethylphenol | 130 | | | | | | | | < 0.091 U | | | |
| 2,4-Dinitrophenol | 13 | | | | | | | | < 0.18 UJ | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | < 0.018 U | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | < 0.018 U | | | |
| 2-Chloronaphthalene | 480 | | | | | | | | < 0.018 U | | | |
| 2-Chlorophenol | 39 | | | | | | | | < 0.091 U | | | |
| 2-Methylnaphthalene | 24 | < 0.00089 U | < 0.00081 UJ | **0.0011 J** | < 0.00071 U | < 0.00072 U | < 0.00072 U | < 0.00082 U | < 0.0073 U | | | |
| 2-Methylphenol | 100 | | | | | | | | < 0.091 U | | | |
| 2-Nitroaniline | 63 | | | | | | | | < 0.018 U | | | |
| 2-Nitrophenol | 13 | | | | | | | | < 0.091 U | | | |
| 3,3-Dichlorobenzidine | 1.2 | | | | | | | | < 0.73 UJ | | | |
| 3,4-Methylphenol | NE | | | | | | | | < 0.091 U | | | |
| 3-Nitroaniline | 63 | | | | | | | | < 0.018 U | | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | | | | | | | | < 0.091 U | | | |
| 4-Bromophenyl-phenylether | NE | | | | | | | | < 0.091 U | | | |
| 4-Chloro-3-methylphenol | 630 | | | | | | | | < 0.036 U | | | |
| 4-Chloroaniline | 2.7 | | | | | | | | < 0.091 U | | | |
| 4-Chlorophenyl-phenylether | NE | | | | | | | | < 0.018 U | | | |
| 4-Nitroaniline | 25 | | | | | | | | < 0.091 U | | | |
| 4-Nitrophenol | 13 | | | | | | | | < 0.36 U | | | |
| Acenaphthene | 100 | < 0.00089 U | < 0.00081 UJ | **0.0015 J** | < 0.00071 U | < 0.00072 U | < 0.00072 U | < 0.00082 U | < 0.0073 U | | | |
| Acenaphthylene | 100 | < 0.00089 U | < 0.00081 UJ | **0.0012 J** | < 0.00071 U | < 0.00072 U | < 0.00072 U | < 0.00082 U | < 0.0073 U | | | |
| Anthracene | 100 | < 0.00089 U | < 0.00081 UJ | **0.0038 J** | < 0.00071 U | < 0.00072 UJ | **0.0013 J** | < 0.00082 U | < 0.0073 U | | | |
| Benzo(a)anthracene | **1** | < 0.00089 U | **0.0073 J** | **0.031 J** | < 0.00071 U | **0.0011 J** | **0.0071 J** | **0.00086** | < 0.0073 U | | | |
| Benzo(a)pyrene | **0.115** | < 0.00089 U | **0.0061 J** | **0.024 J** | < 0.00071 U | < 0.00072 UJ | **0.0038 J** | < 0.00082 U | < 0.0073 U | | | |
| Benzo(b)fluoranthene | **1** | < 0.00089 U | **0.012 J** | **0.054 J** | < 0.00071 U | < 0.00072 UJ | **0.0077 J** | **0.0019** | < 0.0073 U | | | |
| Benzo(g,h,i)perylene | 100 | < 0.00089 U | **0.0030 J** | **0.012 J** | < 0.00071 U | < 0.00072 UJ | **0.0019 J** | < 0.00082 U | < 0.0073 U | | | |
| Benzo(k)fluoranthene | **1** | < 0.00089 U | **0.0023 J** | **0.011 J** | < 0.00071 U | **0.0012** | **0.0015** | < 0.00082 U | < 0.0073 U | | | |
| Benzoic acid | 25000 | | | | | | | | < 0.36 UJ | | | |
| Benzyl Alcohol | 630 | | | | | | | | < 0.018 U | | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | | | | | | | | < 0.018 U | | | |
| Bis(2-chloroethoxy)methane | 19 | | | | | | | | < 0.018 U | | | |
| Bis(2-chloroethyl)ether | 0.23 | | | | | | | | < 0.036 U | | | |
| Bis(2-ethylhexyl)phthalate | 39 | | | | | | | | < 0.036 U | | | |
| Butyl benzyl phthalate | 290 | | | | | | | | < 0.036 U | | | |
| CARBAZOLE | 240 | | | | | | | | < 0.018 U | | | |
| Chrysene | **1** | < 0.00089 U | **0.0043 J** | **0.019 J** | < 0.00071 U | < 0.00072 UJ | **0.0035 J** | < 0.00082 U | < 0.0073 U | | | |
| Dibenz(a,h)anthracene | **0.115** | < 0.00089 U | **0.00090 J** | **0.0046 J** | < 0.00071 U | < 0.00072 U | < 0.00072 U | < 0.00082 U | < 0.0073 U | | | |

Notes:
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-201 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 |
| | **Location ID** | 034-SB01 | 034-SS02 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS04 | 034-SS05 | 201-SB01 | 2010-SB01 | 2010-SB01 | 2010-SB01 |
| | **Sample Date** | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/16/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | **Depth Interval** | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | **Sample Type** | N | FD | N | N | FD | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Dibenzofuran | **7.3** | | | | | | | | < 0.018 U | | | |
| Diethyl phthalate | 5100 | | | | | | | | < 0.018 U | | | |
| Dimethyl phthalate | 5100 | | | | | | | | < 0.018 U | | | |
| Di-n-butyl phthalate | 630 | | | | | | | | < 0.036 U | | | |
| Di-n-octyl phthalate | 63 | | | | | | | | < 0.018 U | | | |
| Fluoranthene | 100 | < 0.00089 U | **0.0098 J** | **0.072 J** | < 0.00071 U | **0.0017 J** | **0.0091 J** | **0.0012** | < 0.0073 U | | | |
| Fluorene | 100 | < 0.00089 U | < 0.00081 UJ | **0.0016 J** | < 0.00071 U | < 0.00072 U | < 0.00072 U | < 0.00082 U | < 0.0073 U | | | |
| Hexachlorobenzene | 0.21 | | | | | | | | < 0.018 U | | | |
| Hexachlorobutadiene | 1.2 | | | | | | | | < 0.018 U | | | |
| Hexachloroethane | 1.8 | | | | | | | | < 0.018 U | | | |
| Indeno(1,2,3-cd)pyrene | **0.5** | < 0.00089 U | **0.0025 J** | **0.010 J** | < 0.00071 U | < 0.00072 UJ | **0.0016 J** | < 0.00082 U | < 0.0073 U | | | |
| Isophorone | 570 | | | | | | | | < 0.018 U | | | |
| Naphthalene | 3.8 | < 0.00089 U | < 0.00081 UJ | **0.0011 J** | < 0.00071 U | < 0.00072 U | < 0.00072 U | < 0.00082 U | < 0.0073 U | | | |
| Nitrobenzene | 5.1 | | | | | | | | < 0.018 U | | | |
| n-Nitrosodimethylamine | 0.002 | | | | | | | | < 0.018 U | | | |
| n-Nitroso-di-n-propylamine | 0.078 | | | | | | | | < 0.018 U | | | |
| n-Nitrosodiphenylamine | 110 | | | | | | | | < 0.018 U | | | |
| Pentachlorophenol | 1 | | | | | | | | < 0.091 UJ | | | |
| Phenanthrene | 100 | < 0.00089 U | **0.0049 J** | **0.023 J** | < 0.00071 U | **0.0015 J** | **0.0051 J** | < 0.00082 U | < 0.0073 U | | | |
| Phenol | 100 | | | | | | | | < 0.091 U | | | |
| Pyrene | 100 | < 0.00089 U | **0.0099 J** | **0.060 J** | < 0.00071 U | **0.0016 J** | **0.0089 J** | **0.0013** | < 0.0073 U | | | |
| Total BaP PAHs Calculated | **0.115** | **0.00206** | **0.00921** | **0.0382** | **0.00164** | **0.00171** | **0.00618** | **0.00201** | **0.0169** | | | |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | | | | | | | | < 0.00068 U | | | |
| 1,1,1-Trichloroethane | 100 | | | | | | | | < 0.00068 U | | | |
| 1,1,2,2-Tetrachloroethane | 0.6 | | | | | | | | < 0.00068 U | | | |
| 1,1,2-Trichloroethane | 0.15 | | | | | | | | < 0.00068 U | | | |
| 1,1-Dichloroethane | 3.6 | | | | | | | | < 0.00068 U | | | |
| 1,1-Dichloroethene | 23 | | | | | | | | < 0.00068 U | | | |
| 1,2,3-Trichloropropane | 0.0051 | | | | | | | | < 0.00068 U | | | |
| 1,2,4-Trimethylbenzene | 5.8 | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | | | | | | | | < 0.0023 UJ | | | |
| 1,2-Dibromoethane | 0.036 | | | | | | | | < 0.00068 U | | | |
| 1,2-Dichloroethane | 0.46 | | | | | | | | < 0.00068 U | | | |
| 1,2-Dichloropropane | 1 | | | | | | | | < 0.00068 U | | | |
| 1,3,5-Trimethylbenzene | 47 | | | | | | | | | | | |
| 2-Butanone | 100 | | | | | | | | < 0.011 UJ | | | |
| 2-Hexanone | 20 | | | | | | | | < 0.0023 U | | | |
| 4-Isopropyltoluene | 190 | | | | | | | | | | | |
| Acetone | 100 | | | | | | | | **0.043 J-** | | | |
| Benzene | 1.2 | | | | | | | | < 0.00068 U | | | |
| Bromodichloromethane | 0.29 | | | | | | | | < 0.00068 U | | | |
| Bromoform | 19 | | | | | | | | < 0.00068 U | | | |
| Carbon disulfide | 77 | | | | | | | | < 0.00068 U | | | |
| Carbon tetrachloride | 0.65 | | | | | | | | < 0.00068 U | | | |

Notes:
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J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-034 | CH-AOC-201 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 034-SB01 | 034-SS02 | 034-SS02 | 034-SS03 | 034-SS04 | 034-SS04 | 034-SS05 | 201-SB01 | 2010-SB01 | 2010-SB01 | 2010-SB01 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/16/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | Sample Type | N | FD | N | N | FD | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [(1)] (mg/kg)** | | | | | | | | | | | |
| Chlorobenzene | 28 | | | | | | | | < 0.00068 U | | | |
| Chloroethane | 1400 | | | | | | | | < 0.0011 U | | | |
| Chloroform | 0.32 | | | | | | | | < 0.00068 U | | | |
| Chloromethane | 11 | | | | | | | | < 0.00068 UJ | | | |
| cis-1,2-Dichloroethene | 16 | | | | | | | | < 0.00068 U | | | |
| cis-1,3-Dichloropropene | NE | | | | | | | | < 0.00068 U | | | |
| Dibromochloromethane | 8.3 | | | | | | | | < 0.00068 U | | | |
| Dichlorodifluoromethane | 8.7 | | | | | | | | < 0.00068 U | | | |
| Ethylbenzene | 5.8 | | | | | | | | < 0.00068 U | | | |
| Isopropylbenzene | 190 | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | |
| Methylene chloride | 35 | | | | | | | | < 0.0023 UJ | | | |
| Naphthalene | 3.8 | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | |
| Styrene | 600 | | | | | | | | < 0.00068 U | | | |
| tert-Butylbenzene | 100 | | | | | | | | | | | |
| Tetrachloroethene | 5.5 | | | | | | | | < 0.00068 U | | | |
| Toluene | 100 | | | | | | | | < 0.00068 U | | | |
| trans-1,2-Dichloroethene | 100 | | | | | | | | < 0.00068 U | | | |
| trans-1,3-Dichloropropene | 1.8 | | | | | | | | < 0.00068 U | | | |
| Trichloroethene | 0.41 | | | | | | | | < 0.00068 U | | | |
| Trichlorofluoromethane | 2300 | | | | | | | | < 0.00068 U | | | |
| Vinyl Acetate | 91 | | | | | | | | < 0.00068 U | | | |
| Vinyl chloride | 0.059 | | | | | | | | < 0.00068 U | | | |
| Xylenes (total) | 58 | | | | | | | | < 0.0021 U | | | |

Notes:
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
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N - Normal sample.
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PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
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UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-EFO | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 2010-SB02 | 2010-SB02 | 2010-SB02 | 2010-SB02 | EFO-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB02 | F100C-SB02 | F100C-SB02 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 7 - 8 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | Sample Type | FD | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | < 0.038 U | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | < 0.038 U | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | < 0.038 U | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | < 0.038 U | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | < 0.038 U | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | < 0.038 U | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | < 0.038 U | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | < 0.038 U | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | < 0.038 U | | | | | | |
| 4-Nitrotoluene | 25 | | | | | < 0.038 U | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | < 0.038 U | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | < 0.038 U | | | | | | |
| Nitrobenzene | 5.1 | | | | | < 0.038 U | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | < 0.038 U | | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | 27822 | | | | | | | | | | | |
| Antimony | 10.3 | | | | | | | | | | | |
| Arsenic | **3.383** | | | | | | | | | | | |
| Barium | 350 | | | | | | | | | | | |
| Beryllium | 14 | | | | | | | | | | | |
| Cadmium | 2.5 | | | | | | | | | | | |
| Calcium (Ca) | **751.8** | | | | | | | | | | | |
| Chromium | **33.92** | | | | | | | | | | | |
| Cobalt | 10.24 | | | | | | | | | | | |
| Copper | 270 | | | | | | | | | | | |
| Iron (Fe) | **19000** | | | | | | | | | | | |
| Lead | 400 | **16 J** | **6.2 J** | **5.7** | **4.8** | | **4.9** | **5.6** | **3.9** | **5.2** | **5.1** | **5.1** |
| Magnesium (Mg) | 8315 | | | | | | | | | | | |
| Manganese (Mn) | 656.8 | | | | | | | | | | | |
| Nickel | 140 | | | | | | | | | | | |
| Potassium (K) | NE | | | | | | | | | | | |
| Selenium | 36 | | | | | | | | | | | |
| Silver | 36 | | | | | | | | | | | |
| Sodium (Na) | **320** | | | | | | | | | | | |
| Thallium | 0.414 | | | | | | | | | | | |
| Vanadium | **46.28** | | | | | | | | | | | |
| Zinc | 2200 | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | | | | | | | | | | | |
| Aroclor 1221 | 0.2 | | | | | | | | | | | |
| Aroclor 1232 | 0.17 | | | | | | | | | | | |
| Aroclor 1242 | 0.23 | | | | | | | | | | | |
| Aroclor 1248 | 0.23 | | | | | | | | | | | |
| Aroclor 1254 | 0.12 | | | | | | | | | | | |
| Aroclor 1260 | 0.24 | | | | | | | | | | | |
| Aroclor 1262 | 0.24 | | | | | | | | | | | |
| Aroclor 1268 | 0.24 | | | | | | | | | | | |

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1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-EFO | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 2010-SB02 | 2010-SB02 | 2010-SB02 | 2010-SB02 | EFO-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB02 | F100C-SB02 | F100C-SB02 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 7 - 8 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | Sample Type | FD | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 100 | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 17 | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 2.6 | | | | | | | | | | | |
| 1-Methylnaphthalene | 18 | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 630 | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 6.3 | | | | | | | | | | | |
| 2,4-Dichlorophenol | 19 | | | | | | | | | | | |
| 2,4-Dimethylphenol | 130 | | | | | | | | | | | |
| 2,4-Dinitrophenol | 13 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | |
| 2-Chloronaphthalene | 480 | | | | | | | | | | | |
| 2-Chlorophenol | 39 | | | | | | | | | | | |
| 2-Methylnaphthalene | 24 | | | | | | | | | | | |
| 2-Methylphenol | 100 | | | | | | | | | | | |
| 2-Nitroaniline | 63 | | | | | | | | | | | |
| 2-Nitrophenol | 13 | | | | | | | | | | | |
| 3,3-Dichlorobenzidine | 1.2 | | | | | | | | | | | |
| 3,4-Methylphenol | NE | | | | | | | | | | | |
| 3-Nitroaniline | 63 | | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | NE | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 630 | | | | | | | | | | | |
| 4-Chloroaniline | 2.7 | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | NE | | | | | | | | | | | |
| 4-Nitroaniline | 25 | | | | | | | | | | | |
| 4-Nitrophenol | 13 | | | | | | | | | | | |
| Acenaphthene | 100 | | | | | | | | | | | |
| Acenaphthylene | 100 | | | | | | | | | | | |
| Anthracene | 100 | | | | | | | | | | | |
| Benzo(a)anthracene | **1** | | | | | | | | | | | |
| Benzo(a)pyrene | **0.115** | | | | | | | | | | | |
| Benzo(b)fluoranthene | **1** | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 100 | | | | | | | | | | | |
| Benzo(k)fluoranthene | **1** | | | | | | | | | | | |
| Benzoic acid | 25000 | | | | | | | | | | | |
| Benzyl Alcohol | 630 | | | | | | | | | | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | 19 | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.23 | | | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 39 | | | | | | | | | | | |
| Butyl benzyl phthalate | 290 | | | | | | | | | | | |
| CARBAZOLE | 240 | | | | | | | | | | | |
| Chrysene | **1** | | | | | | | | | | | |
| Dibenz(a,h)anthracene | **0.115** | | | | | | | | | | | |

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1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-EFO | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C |
| | **Location ID** | 2010-SB02 | 2010-SB02 | 2010-SB02 | 2010-SB02 | EFO-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB02 | F100C-SB02 | F100C-SB02 |
| | **Sample Date** | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 |
| | **Depth Interval** | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 7 - 8 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | **Sample Type** | FD | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Dibenzofuran | **7.3** | | | | | | | | | | | |
| Diethyl phthalate | 5100 | | | | | | | | | | | |
| Dimethyl phthalate | 5100 | | | | | | | | | | | |
| Di-n-butyl phthalate | 630 | | | | | | | | | | | |
| Di-n-octyl phthalate | 63 | | | | | | | | | | | |
| Fluoranthene | 100 | | | | | | | | | | | |
| Fluorene | 100 | | | | | | | | | | | |
| Hexachlorobenzene | 0.21 | | | | | | | | | | | |
| Hexachlorobutadiene | 1.2 | | | | | | | | | | | |
| Hexachloroethane | 1.8 | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | **0.5** | | | | | | | | | | | |
| Isophorone | 570 | | | | | | | | | | | |
| Naphthalene | 3.8 | | | | | | | | | | | |
| Nitrobenzene | 5.1 | | | | | | | | | | | |
| n-Nitrosodimethylamine | 0.002 | | | | | | | | | | | |
| n-Nitroso-di-n-propylamine | 0.078 | | | | | | | | | | | |
| n-Nitrosodiphenylamine | 110 | | | | | | | | | | | |
| Pentachlorophenol | 1 | | | | | | | | | | | |
| Phenanthrene | 100 | | | | | | | | | | | |
| Phenol | 100 | | | | | | | | | | | |
| Pyrene | 100 | | | | | | | | | | | |
| Total BaP PAHs Calculated | **0.115** | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 100 | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.6 | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 0.15 | | | | | | | | | | | |
| 1,1-Dichloroethane | 3.6 | | | | | | | | | | | |
| 1,1-Dichloroethene | 23 | | | | | | | | | | | |
| 1,2,3-Trichloropropane | 0.0051 | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 5.8 | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | | | | | | | | | | | |
| 1,2-Dibromoethane | 0.036 | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.46 | | | | | | | | | | | |
| 1,2-Dichloropropane | 1 | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 47 | | | | | | | | | | | |
| 2-Butanone | 100 | | | | | | | | | | | |
| 2-Hexanone | 20 | | | | | | | | | | | |
| 4-Isopropyltoluene | 190 | | | | | | | | | | | |
| Acetone | 100 | | | | | | | | | | | |
| Benzene | 1.2 | | | | | | | | | | | |
| Bromodichloromethane | 0.29 | | | | | | | | | | | |
| Bromoform | 19 | | | | | | | | | | | |
| Carbon disulfide | 77 | | | | | | | | | | | |
| Carbon tetrachloride | 0.65 | | | | | | | | | | | |

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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-2010 | CH-AOC-EFO | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C | CH-AOC-F100C |
| | **Location ID** | 2010-SB02 | 2010-SB02 | 2010-SB02 | 2010-SB02 | EFO-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB01 | F100C-SB02 | F100C-SB02 | F100C-SB02 |
| | **Sample Date** | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/13/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 | 6/10/2016 |
| | **Depth Interval** | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 7 - 8 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft | 4 - 5 ft | 5 - 6 ft | 6 - 7 ft |
| | **Sample Type** | FD | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Chlorobenzene | 28 | | | | | | | | | | | |
| Chloroethane | 1400 | | | | | | | | | | | |
| Chloroform | 0.32 | | | | | | | | | | | |
| Chloromethane | 11 | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 16 | | | | | | | | | | | |
| cis-1,3-Dichloropropene | NE | | | | | | | | | | | |
| Dibromochloromethane | 8.3 | | | | | | | | | | | |
| Dichlorodifluoromethane | 8.7 | | | | | | | | | | | |
| Ethylbenzene | 5.8 | | | | | | | | | | | |
| Isopropylbenzene | 190 | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | |
| Methylene chloride | 35 | | | | | | | | | | | |
| Naphthalene | 3.8 | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | |
| Styrene | 600 | | | | | | | | | | | |
| tert-Butylbenzene | 100 | | | | | | | | | | | |
| Tetrachloroethene | 5.5 | | | | | | | | | | | |
| Toluene | 100 | | | | | | | | | | | |
| trans-1,2-Dichloroethene | 100 | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 1.8 | | | | | | | | | | | |
| Trichloroethene | 0.41 | | | | | | | | | | | |
| Trichlorofluoromethane | 2300 | | | | | | | | | | | |
| Vinyl Acetate | 91 | | | | | | | | | | | |
| Vinyl chloride | 0.059 | | | | | | | | | | | |
| Xylenes (total) | 58 | | | | | | | | | | | |

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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H1-SS01 | H1-SS02 | H11-SB01 | H11-SB01 | H11-SB02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB01 | H14-SB03 | H16-SB01 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/21/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 3 - 4 ft | 3 - 4 ft | 5 - 6 ft | 4 - 5 ft | 6 - 7 ft | 6 - 7 ft | 5 - 6 ft | 4 - 5 ft |
| | Sample Type | N | N | N | N | N | N | N | FD | N | N | FD |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | |
| Nitrobenzene | 5.1 | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | 27822 | **6100** | **7500** | **3300** | **7200** | **12000** | **9800** | **6700** | **3000 J** | **8200 J** | **8600** | **14000** |
| Antimony | 10.3 | **1.1** | **2.3** | **0.39 J** | **0.78** | **1.9** | **2.7** | **2.0** | **1.7** | **2.6** | **3.4** | **2.6** |
| Arsenic | **3.383** | < 0.88 U | < 0.77 U | **11** | **9.4** | **1.8** | **2.4** | **1.7** | **2.1** | **2.0** | **1.8** | **2.9 J** |
| Barium | 350 | **22** | **58** | **13** | **16** | **20** | **22** | **23** | **20 J** | **35 J** | **30** | **89 J** |
| Beryllium | 14 | **0.025 J** | **0.47** | **0.075 J** | **0.17 J** | **0.34** | **0.33** | **0.11 J** | **0.071 J** | **0.092 J** | **0.043 J** | **0.57 J** |
| Cadmium | 2.5 | **0.045 J** | **0.41** | **0.049 J** | **0.033 J** | **0.19 J** | **0.090 J** | **0.051 J** | < 0.034 UJ | **0.042 J** | < 0.035 U | **0.59 J** |
| Calcium (Ca) | **751.8** | **790** | **1300** | **980** | **830** | **920** | **1600** | **790** | **190 J** | **320 J** | **740** | **4200 J** |
| Chromium | **33.92** | **8.2** | **13** | **5.4** | **14** | **12** | **13** | **9.7** | **7.7** | **12** | **17** | **11** |
| Cobalt | 10.24 | **1.1** | **2.3** | **0.46 J** | **0.87** | **1.9** | **2.7** | **2.1** | **1.7** | **2.6** | **3.5** | **2.4** |
| Copper | 270 | **7.3** | **15** | **18** | **40** | **26** | **25** | **22** | **21** | **28** | **31** | **30 J** |
| Iron (Fe) | **19000** | **2900** | **5500** | **7000** | **17000** | **11000** | **10000** | **8100** | **8300** | **12000** | **12000** | **6600** |
| Lead | 400 | **2.9 J** | **3.3 J** | **3.8 J** | **2.7 J** | **9.7** | **10** | **18** | **1.5 J** | **2.5 J** | **2.3 J** | **22 J** |
| Magnesium (Mg) | 8315 | **640** | **1800** | **380** | **740** | **1000** | **1600** | **1100** | **730 J** | **1600 J** | **2200** | **1600** |
| Manganese (Mn) | 656.8 | **49** | **97** | **52** | **75** | **98** | **130** | **100** | **83 J** | **210 J** | **160** | **63** |
| Nickel | 140 | **2.4 J** | **7.4** | **3.0 J** | **5.2** | **7.0** | **7.6** | **4.9** | **2.2 J** | **5.4 J** | **8.9** | **12 J** |
| Potassium (K) | NE | **410** | **680** | **210** | **270** | **460** | **800** | **610** | **520 J** | **1200 J** | **1200** | **870** |
| Selenium | 36 | < 1.3 U | < 1.2 U | < 1.2 U | < 1.2 U | < 1.2 U | < 1.2 U | < 1.1 U | < 1.0 U | < 1.1 U | < 1.0 U | < 3.5 U |
| Silver | 36 | < 0.22 U | **0.31 J** | < 0.19 U | < 0.19 U | < 0.20 U | < 0.19 U | < 0.19 U | < 0.17 U | < 0.18 U | < 0.17 U | < 0.58 U |
| Sodium (Na) | **320** | **69** | **120** | **55** | **52** | **70** | **81** | **59** | **48** | **70** | **140** | **460 J** |
| Thallium | 0.414 | **0.050 J** | **0.057 J** | **0.062 J** | **0.063 J** | **0.076 J** | **0.074 J** | **0.075 J** | **0.077 J** | **0.14 J** | **0.15** | < 0.12 UJ |
| Vanadium | **46.28** | **7.7** | **10** | **8.9** | **24** | **20** | **18** | **12** | **7.7 J** | **16 J** | **18** | **15** |
| Zinc | 2200 | **12** | **25** | **5.0** | **8.6** | **35** | **29** | **17** | **6.3 J** | **13 J** | **15** | **86 J** |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1221 | 0.2 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1232 | 0.17 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1242 | 0.23 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1248 | 0.23 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1254 | 0.12 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | **0.077** | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1260 | 0.24 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1262 | 0.24 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |
| Aroclor 1268 | 0.24 | < 0.0089 U | < 0.0081 U | < 0.0078 U | < 0.0080 U | < 0.0080 U | < 0.0079 U | < 0.0075 U | | | | < 0.024 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H1-SS01 | H1-SS02 | H11-SB01 | H11-SB01 | H11-SB02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB01 | H14-SB03 | H16-SB01 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/21/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 3 - 4 ft | 3 - 4 ft | 5 - 6 ft | 4 - 5 ft | 6 - 7 ft | 6 - 7 ft | 5 - 6 ft | 4 - 5 ft |
| | Sample Type | N | N | N | N | N | N | N | FD | N | N | FD |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 1,2-Dichlorobenzene | 100 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 1,3-Dichlorobenzene | 17 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 1,4-Dichlorobenzene | 2.6 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 1-Methylnaphthalene | 18 | < 0.00091 U | < 0.00079 U | **0.0034** | < 0.00080 U | **6.2** | **0.39** | **0.0059** | < 0.00068 U | < 0.00071 U | < 0.00072 U | < 0.0024 U |
| 2,4,5-Trichlorophenol | 630 | < 0.045 U | < 0.040 U | | | | | | | | | < 0.12 U |
| 2,4,6-Trichlorophenol | 6.3 | < 0.045 U | < 0.040 U | | | | | | | | | < 0.12 U |
| 2,4-Dichlorophenol | 19 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 2,4-Dimethylphenol | 130 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 2,4-Dinitrophenol | 13 | < 0.22 U | < 0.20 U | | | | | | | | | < 0.60 U |
| 2,4-Dinitrotoluene | 1.7 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 2,6-Dinitrotoluene | 0.36 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 2-Chloronaphthalene | 480 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 2-Chlorophenol | 39 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 2-Methylnaphthalene | 24 | < 0.00091 U | < 0.00079 U | **0.0045** | < 0.00080 U | **6.0** | **0.23** | **0.0075** | < 0.00068 U | < 0.00071 U | < 0.00072 U | **0.0027 J** |
| 2-Methylphenol | 100 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 2-Nitroaniline | 63 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 2-Nitrophenol | 13 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 3,3-Dichlorobenzidine | 1.2 | < 0.89 U | < 0.80 U | | | | | | | | | < 2.4 U |
| 3,4-Methylphenol | NE | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 3-Nitroaniline | 63 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 4-Bromophenyl-phenylether | NE | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 4-Chloro-3-methylphenol | 630 | < 0.045 U | < 0.040 U | | | | | | | | | < 0.12 U |
| 4-Chloroaniline | 2.7 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 4-Chlorophenyl-phenylether | NE | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| 4-Nitroaniline | 25 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| 4-Nitrophenol | 13 | < 0.45 U | < 0.40 U | | | | | | | | | < 1.2 U |
| Acenaphthene | 100 | < 0.00091 U | < 0.00079 U | **0.0018** | < 0.00080 U | < 0.16 U | **0.93** | **0.0023** | < 0.00068 U | < 0.00071 U | < 0.00072 U | < 0.0024 U |
| Acenaphthylene | 100 | < 0.00091 U | < 0.00079 U | **0.00087** | < 0.00080 U | **0.34** | **0.20** | **0.0016** | < 0.00068 U | < 0.00071 U | < 0.00072 U | < 0.0024 U |
| Anthracene | 100 | < 0.00091 U | < 0.00079 U | **0.0056** | < 0.00080 U | **5.7** | **5.7** | **0.0076** | < 0.00068 U | < 0.00071 U | < 0.00072 U | < 0.0024 UJ |
| Benzo(a)anthracene | **1** | **0.0019 J+** | < 0.00079 U | **0.028** | < 0.00080 U | **0.27** | **5.6** | **0.055** | < 0.00068 UJ | **0.00079 J** | **0.0013 J+** | **0.012** |
| Benzo(a)pyrene | **0.115** | **0.30** | < 0.00079 U | **0.026** | < 0.00080 U | **0.13** | **2.8** | **0.030** | < 0.00068 UJ | **0.00073 J** | **0.00094 J+** | **0.012** |
| Benzo(b)fluoranthene | **1** | **0.0030 J+** | < 0.00079 U | **0.049** | < 0.00080 U | **0.25** | **6.2** | **0.058** | < 0.00068 UJ | **0.0016 J** | **0.0020 J+** | **0.024** |
| Benzo(g,h,i)perylene | 100 | **0.0016 J+** | < 0.00079 U | **0.0099** | < 0.00080 U | **0.095** | **3.2** | **0.017 J+** | < 0.00068 U | < 0.00071 U | < 0.00072 U | **0.0063** |
| Benzo(k)fluoranthene | **1** | **0.0020 J+** | < 0.00079 U | **0.011** | < 0.00080 U | **0.068** | **1.6** | **0.016** | < 0.00068 U | < 0.00071 U | < 0.00072 U | **0.0078** |
| Benzoic acid | 25000 | **0.24 J** | < 0.40 UJ | | | | | | | | | **0.60 J** |
| Benzyl Alcohol | 630 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Bis(2-chloroethoxy)methane | 19 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Bis(2-chloroethyl)ether | 0.23 | < 0.045 U | < 0.040 U | | | | | | | | | < 0.12 U |
| Bis(2-ethylhexyl)phthalate | 39 | < 0.045 U | < 0.040 U | | | | | | | | | < 0.12 U |
| Butyl benzyl phthalate | 290 | < 0.045 U | < 0.040 U | | | | | | | | | < 0.12 U |
| CARBAZOLE | 240 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Chrysene | **1** | **0.0021 J+** | < 0.00079 U | **0.025** | < 0.00080 U | **0.18** | **4.3** | **0.032** | < 0.00068 UJ | **0.00090 J** | **0.0012 J+** | **0.012** |
| Dibenz(a,h)anthracene | **0.115** | < 0.00091 U | < 0.00079 U | **0.0035** | < 0.00080 U | < 0.016 U | **0.50** | **0.0014** | < 0.00068 U | < 0.00071 U | < 0.00072 U | < 0.0024 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
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NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H1-SS01 | H1-SS02 | H11-SB01 | H11-SB01 | H11-SB02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB01 | H14-SB03 | H16-SB01 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/21/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 3 - 4 ft | 3 - 4 ft | 5 - 6 ft | 4 - 5 ft | 6 - 7 ft | 6 - 7 ft | 5 - 6 ft | 4 - 5 ft |
| | Sample Type | N | N | N | N | N | N | N | FD | N | N | FD |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Dibenzofuran | **7.3** | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Diethyl phthalate | 5100 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Dimethyl phthalate | 5100 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Di-n-butyl phthalate | 630 | < 0.045 U | < 0.040 U | | | | | | | | | < 0.12 U |
| Di-n-octyl phthalate | 63 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Fluoranthene | 100 | **0.0051 J+** | < 0.00079 U | **0.063** | < 0.00080 U | **0.48** | **12** | **0.071** | < 0.00068 UJ | **0.0018 J** | **0.0033 J+** | **0.023** |
| Fluorene | 100 | < 0.00091 U | < 0.00079 U | **0.0014** | < 0.00080 U | **0.50** | **1.1** | **0.0022** | < 0.00068 U | < 0.00071 U | < 0.00072 U | < 0.0024 U |
| Hexachlorobenzene | 0.21 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Hexachlorobutadiene | 1.2 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Hexachloroethane | 1.8 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Indeno(1,2,3-cd)pyrene | **0.5** | **0.0016 J+** | < 0.00079 U | **0.010** | < 0.00080 U | **0.081** | **2.7** | **0.017** | < 0.00068 U | < 0.00071 U | < 0.00072 U | **0.0063** |
| Isophorone | 570 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Naphthalene | 3.8 | < 0.00091 U | < 0.00079 U | **0.0033** | < 0.00080 U | **0.72** | **1.0** | **0.0054** | < 0.00068 U | < 0.00071 U | < 0.00072 U | **0.0034 J** |
| Nitrobenzene | 5.1 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| n-Nitrosodimethylamine | 0.002 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| n-Nitrosodiphenylamine | 110 | < 0.022 U | < 0.020 U | | | | | | | | | < 0.060 U |
| Pentachlorophenol | 1 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| Phenanthrene | 100 | **0.0025 J+** | < 0.00079 U | **0.020** | < 0.00080 U | **7.0** | **8.9** | **0.040** | < 0.00068 UJ | **0.0011 J** | **0.0026 J+** | **0.0081** |
| Phenol | 100 | < 0.11 U | < 0.10 U | | | | | | | | | < 0.30 U |
| Pyrene | 100 | **0.0041 J+** | < 0.00079 U | **0.063** | < 0.00080 U | **1.2** | **8.7** | **0.070** | < 0.00068 UJ | **0.0015 J** | **0.0025 J+** | **0.020** |
| Total BaP PAHs Calculated | **0.115** | **0.302** | **0.00183** | **0.0383** | **0.00185** | **0.207** | **4.77** | **0.0446** | **0.00157** | **0.00176** | **0.00207** | **0.0187** |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | < 0.11 UJ | < 0.073 UJ | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,1,1-Trichloroethane | 100 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,1,2,2-Tetrachloroethane | 0.6 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,1,2-Trichloroethane | 0.15 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,1-Dichloroethane | 3.6 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,1-Dichloroethene | 23 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,2,3-Trichloropropane | 0.0051 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,2,4-Trimethylbenzene | 5.8 | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.19 U | < 0.12 U | | | | | < 0.0018 U | | | | < 0.0027 U |
| 1,2-Dibromoethane | 0.036 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,2-Dichloroethane | 0.46 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,2-Dichloropropane | 1 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| 1,3,5-Trimethylbenzene | 47 | | | | | | | | | | | |
| 2-Butanone | 100 | < 0.95 U | < 0.61 U | | | | | **0.0078 J** | | | | < 0.013 UJ |
| 2-Hexanone | 20 | < 0.11 U | < 0.073 U | | | | | < 0.0018 U | | | | < 0.0027 U |
| 4-Isopropyltoluene | 190 | | | | | | | | | | | |
| Acetone | 100 | **0.18 J** | < 0.49 U | | | | | < 0.0018 UJ | | | | < 0.0027 UJ |
| Benzene | 1.2 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Bromodichloromethane | 0.29 | < 0.11 UJ | < 0.073 UJ | | | | | < 0.00055 U | | | | < 0.00080 U |
| Bromoform | 19 | < 0.11 U | < 0.073 U | | | | | < 0.00055 UJ | | | | < 0.00080 U |
| Carbon disulfide | 77 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Carbon tetrachloride | 0.65 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H1 | CH-AOC-H1 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H11 | CH-AOC-H12 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H14 | CH-AOC-H16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H1-SS01 | H1-SS02 | H11-SB01 | H11-SB01 | H11-SB02 | H11-SB02 | H12-SB01 | H14-SB01 | H14-SB01 | H14-SB03 | H16-SB01 |
| | Sample Date | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/13/2016 | 6/21/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 3 - 4 ft | 3 - 4 ft | 5 - 6 ft | 4 - 5 ft | 6 - 7 ft | 6 - 7 ft | 5 - 6 ft | 4 - 5 ft |
| | Sample Type | N | N | N | N | N | N | N | FD | N | N | FD |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Chlorobenzene | 28 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Chloroethane | 1400 | < 0.76 UJ | < 0.49 UJ | | | | | < 0.00091 U | | | | < 0.0013 U |
| Chloroform | 0.32 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Chloromethane | 11 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| cis-1,2-Dichloroethene | 16 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| cis-1,3-Dichloropropene | NE | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Dibromochloromethane | 8.3 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Dichlorodifluoromethane | 8.7 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Ethylbenzene | 5.8 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Isopropylbenzene | 190 | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | |
| Methylene chloride | 35 | < 0.11 U | < 0.073 U | | | | | < 0.0018 U | | | | < 0.0027 UJ |
| Naphthalene | 3.8 | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | |
| Styrene | 600 | < 0.11 UJ | < 0.073 UJ | | | | | < 0.00055 U | | | | < 0.00080 U |
| tert-Butylbenzene | 100 | | | | | | | | | | | |
| Tetrachloroethene | 5.5 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Toluene | 100 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| trans-1,2-Dichloroethene | 100 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| trans-1,3-Dichloropropene | 1.8 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Trichloroethene | 0.41 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Trichlorofluoromethane | 2300 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Vinyl Acetate | 91 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Vinyl chloride | 0.059 | < 0.11 U | < 0.073 U | | | | | < 0.00055 U | | | | < 0.00080 U |
| Xylenes (total) | 58 | < 0.29 U | < 0.18 U | | | | | < 0.0016 U | | | | < 0.0024 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H2 | CH-AOC-H2 | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS02 | H2-SS01 | H2-SS02 | H20-SS01 | H20-SS02 | H21-SB02 |
| | Sample Date | 6/13/2016 | 6/9/2016 | 6/16/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/14/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | |
| Nitrobenzene | 5.1 | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | 27822 | **13000** | **6900 J+** | **11000** | **18000** | **4800** | **3000** | **6300** | **12000 J+** | **14000** | **8100 J+** | **8000** |
| Antimony | 10.3 | **1.9** | **3.0** | **3.3** | **4.9** | **1.4** | **1.2** | **2.6** | **3.8** | **4.8** | **3.2** | **3.2** |
| Arsenic | **3.383** | **1.3 J** | **1.4** | **2.0** | **2.2** | **1.8** | **1.1 J** | **0.84 J** | **2.5** | **1.6** | **2.0** | **1.4 J** |
| Barium | 350 | **23 J** | **16** | **22** | **35** | **11** | **7.2** | **25** | **35 J+** | **58** | **40 J+** | **24** |
| Beryllium | 14 | **0.12 J** | < 0.036 U | **0.084 J** | **0.13 J** | < 0.035 U | < 0.034 U | **0.080 J** | **0.20** | **0.58** | **0.38** | **0.078 J** |
| Cadmium | 2.5 | **0.066 J** | **0.031 J** | **0.055 J** | **0.060 J** | **0.031 J** | < 0.034 U | **0.090 J** | **0.14 J** | **0.036 J** | < 0.037 U | **0.026 J** |
| Calcium (Ca) | **751.8** | **830 J** | **640 J** | **490** | **460** | **860** | **470** | **410** | **650 J+** | **1700** | **1000 J+** | **680** |
| Chromium | **33.92** | **14** | **10** | **14** | **17** | **7.2** | **5.2** | **9.6** | **18 J+** | **20** | **21 J+** | **11** |
| Cobalt | 10.24 | **1.9** | **3.3** | **3.3** | **4.7** | **1.5** | **1.3** | **2.6** | **3.8** | **4.9** | **3.3** | **3.3** |
| Copper | 270 | **16 J** | **29 J+** | **37** | **38** | **16** | **14** | **31** | **42 J+** | **33** | **67 J+** | **28** |
| Iron (Fe) | **19000** | **5000** | **14000 J+** | **18000** | **18000** | **6700** | **6000** | **11000** | **16000 J+** | **12000** | **26000 J-** | **12000** |
| Lead | 400 | **5.0 J** | **2.2 J** | **3.5 J** | **5.1** | **2.3 J** | **1.1 J** | **7.1** | **7.4** | **3.0 J** | **3.0 J** | **3.0 J** |
| Magnesium (Mg) | 8315 | **2000** | **1300 J+** | **1200** | **2600** | **1000** | **610** | **1400** | **2300 J+** | **4100** | **2400 J+** | **1300** |
| Manganese (Mn) | 656.8 | **82** | **210 J** | **140** | **170** | **110** | **73** | **140** | **260 J+** | **180** | **180 J** | **180** |
| Nickel | 140 | **7.0 J** | **6.5** | **6.1** | **9.9** | **3.5** | **2.2 J** | **5.7** | **9.3** | **14** | **16 J+** | **6.6** |
| Potassium (K) | NE | **820** | **840 J-** | **470** | **770** | **590** | **340** | **1000** | **1400 J+** | **2600** | **1600 J+** | **670** |
| Selenium | 36 | < 1.2 U | < 1.1 UJ | < 1.1 U | < 1.1 U | < 1.1 U | < 1.0 U | < 1.1 U | < 1.1 U | < 1.1 U | < 1.1 UJ | < 1.1 U |
| Silver | 36 | < 0.20 U | < 0.18 U | < 0.19 U | < 0.18 U | < 0.18 U | < 0.17 U | < 0.18 U | < 0.19 U | < 0.19 U | < 0.19 U | < 0.18 U |
| Sodium (Na) | **320** | **110 J** | **77** | **59** | **63** | **61** | **47** | **56** | **83 J+** | **160** | **110** | **81** |
| Thallium | 0.414 | **0.075 J** | **0.089 J** | **0.090 J** | **0.12 J** | **0.041 J** | **0.041 J** | **0.078 J** | **0.13 J** | **0.14 J** | **0.14 J** | **0.071 J** |
| Vanadium | **46.28** | **14** | **19 J+** | **28** | **25** | **11** | **7.9** | **13** | **23 J+** | **29** | **18 J+** | **20** |
| Zinc | 2200 | **18 J** | **14** | **14** | **22** | **9.6** | **5.9** | **160** | **110 J+** | **27** | **26** | **13** |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1221 | 0.2 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1232 | 0.17 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1242 | 0.23 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1248 | 0.23 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1254 | 0.12 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1260 | 0.24 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1262 | 0.24 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |
| Aroclor 1268 | 0.24 | < 0.0082 U | < 0.0073 UJ | < 0.0075 UJ | < 0.0077 U | < 0.0071 U | < 0.0068 U | < 0.0075 U | < 0.0079 U | < 0.0077 U | < 0.0078 UJ | < 0.0075 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H2 | CH-AOC-H2 | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS02 | H2-SS01 | H2-SS02 | H20-SS01 | H20-SS02 | H21-SB02 |
| | Sample Date | 6/13/2016 | 6/9/2016 | 6/16/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/14/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| 1,2-Dichlorobenzene | 100 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| 1,3-Dichlorobenzene | 17 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| 1,4-Dichlorobenzene | 2.6 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| 1-Methylnaphthalene | 18 | < 0.00083 U | **0.0040 J+** | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.00099 J+** | **0.0010 J+** | **0.015** | < 0.00078 U | < 0.0023 U |
| 2,4,5-Trichlorophenol | 630 | < 0.041 U | < 0.037 U | < 0.038 U | < 0.038 U | < 0.035 U | < 0.034 U | < 0.037 U | < 0.041 U | < 0.038 U | < 0.039 U | < 0.038 U |
| 2,4,6-Trichlorophenol | 6.3 | < 0.041 U | < 0.037 U | < 0.038 U | < 0.038 U | < 0.035 U | < 0.034 U | < 0.037 U | < 0.041 U | < 0.038 U | < 0.039 U | < 0.038 U |
| 2,4-Dichlorophenol | 19 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 2,4-Dimethylphenol | 130 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 2,4-Dinitrophenol | 13 | < 0.20 U | < 0.19 UJ | < 0.19 UJ | < 0.19 UJ | < 0.18 U | < 0.17 U | < 0.18 U | < 0.20 U | < 0.19 UJ | < 0.19 UJ | < 0.19 U |
| 2,4-Dinitrotoluene | 1.7 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| 2,6-Dinitrotoluene | 0.36 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 UJ | < 0.019 U | < 0.019 U | < 0.019 U |
| 2-Chloronaphthalene | 480 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| 2-Chlorophenol | 39 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 2-Methylnaphthalene | 24 | **0.0011 J** | **0.0017** | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.0015 J+** | **0.0019 J+** | **0.016** | < 0.00078 U | < 0.0023 U |
| 2-Methylphenol | 100 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 2-Nitroaniline | 63 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| 2-Nitrophenol | 13 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 3,3-Dichlorobenzidine | 1.2 | < 0.82 U | < 0.74 UJ | < 0.77 UJ | < 0.77 UJ | < 0.70 UJ | < 0.68 UJ | < 0.74 U | < 0.81 UJ | < 0.76 U | < 0.77 UJ | < 0.75 U |
| 3,4-Methylphenol | NE | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 3-Nitroaniline | 63 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 UJ | < 0.019 U | < 0.019 U | < 0.019 U |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 4-Bromophenyl-phenylether | NE | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 UJ | < 0.095 U | < 0.096 U | < 0.094 U |
| 4-Chloro-3-methylphenol | 630 | < 0.041 U | < 0.037 U | < 0.038 U | < 0.038 U | < 0.035 U | < 0.034 U | < 0.037 U | < 0.041 U | < 0.038 U | < 0.039 U | < 0.038 U |
| 4-Chloroaniline | 2.7 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| 4-Chlorophenyl-phenylether | NE | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 UJ | < 0.019 U | < 0.019 U | < 0.019 U |
| 4-Nitroaniline | 25 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 UJ | < 0.095 U | < 0.096 U | < 0.094 U |
| 4-Nitrophenol | 13 | < 0.41 U | < 0.37 U | < 0.38 U | < 0.38 U | < 0.35 U | < 0.34 U | < 0.37 U | < 0.41 U | < 0.38 U | < 0.39 U | < 0.38 U |
| Acenaphthene | 100 | < 0.00083 U | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.00087 J+** | **0.0012 J+** | **0.082** | **0.0033** | < 0.0023 U |
| Acenaphthylene | 100 | < 0.00083 U | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | < 0.00076 U | **0.00090 J+** | **0.041** | **0.0022** | < 0.0023 U |
| Anthracene | 100 | **0.0015 J** | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.0020 J+** | **0.0024 J+** | **0.13** | **0.0029** | < 0.0023 U |
| Benzo(a)anthracene | **1** | **0.014** | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.029 J+** | **0.014 J** | **0.35** | **0.017 J-** | < 0.0023 U |
| Benzo(a)pyrene | **0.115** | **0.015** | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.029 J+** | **0.013 J** | **0.24** | **0.011** | < 0.0023 U |
| Benzo(b)fluoranthene | **1** | **0.027** | **0.0011** | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.055** | **0.023 J+** | **0.45** | **0.021** | < 0.0023 U |
| Benzo(g,h,i)perylene | 100 | **0.0063** | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.00092 J+** | < 0.00078 U | **0.10** | **0.0053** | < 0.0023 U |
| Benzo(k)fluoranthene | **1** | **0.0098** | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.0056 J+** | **0.0053 J** | **0.096** | **0.0078 J-** | < 0.0023 U |
| Benzoic acid | 25000 | **0.25 J** | < 0.37 UJ | < 0.38 UJ | < 0.38 UJ | < 0.35 U | < 0.34 U | < 0.37 UJ | < 0.41 UJ | < 0.38 UJ | < 0.39 UJ | < 0.38 UJ |
| Benzyl Alcohol | 630 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Bis(2-chloroethoxy)methane | 19 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Bis(2-chloroethyl)ether | 0.23 | < 0.041 U | < 0.037 U | < 0.038 U | < 0.038 U | < 0.035 U | < 0.034 U | < 0.037 U | < 0.041 U | < 0.038 U | < 0.039 U | < 0.038 U |
| Bis(2-ethylhexyl)phthalate | 39 | < 0.041 U | < 0.037 U | < 0.038 U | < 0.038 U | < 0.035 U | < 0.034 U | < 0.037 U | < 0.041 UJ | < 0.038 U | < 0.039 U | < 0.038 U |
| Butyl benzyl phthalate | 290 | < 0.041 U | < 0.037 U | < 0.038 U | < 0.038 U | < 0.035 U | < 0.034 U | < 0.037 U | < 0.041 UJ | < 0.038 U | < 0.039 U | < 0.038 U |
| CARBAZOLE | 240 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 UJ | < 0.019 U | < 0.019 U | < 0.019 U |
| Chrysene | **1** | **0.013** | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.027 J+** | **0.014 J** | **0.40** | **0.019 J** | < 0.0023 U |
| Dibenz(a,h)anthracene | **0.115** | < 0.00083 U | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.0016 J+** | < 0.00078 UJ | **0.049** | **0.0019** | < 0.0023 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H2 | CH-AOC-H2 | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS02 | H2-SS01 | H2-SS02 | H20-SS01 | H20-SS02 | H21-SB02 |
| | Sample Date | 6/13/2016 | 6/9/2016 | 6/16/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/14/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Dibenzofuran | **7.3** | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | **0.012 J** | < 0.019 U | < 0.019 U |
| Diethyl phthalate | 5100 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 UJ | < 0.019 U | < 0.019 U | < 0.019 U |
| Dimethyl phthalate | 5100 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 UJ | < 0.019 U | < 0.019 U | < 0.019 U |
| Di-n-butyl phthalate | 630 | < 0.041 U | < 0.037 U | < 0.038 U | < 0.038 U | < 0.035 U | < 0.034 U | < 0.037 U | < 0.041 UJ | < 0.038 U | < 0.039 U | **0.021 J** |
| Di-n-octyl phthalate | 63 | < 0.020 U | **0.020 J** | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Fluoranthene | 100 | **0.027** | **0.0014** | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.032 J+** | **0.028 J** | **1.0** | **0.032 J** | < 0.0023 U |
| Fluorene | 100 | < 0.00083 U | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.00094 J+** | **0.0013 J+** | **0.096** | **0.0024** | < 0.0023 U |
| Hexachlorobenzene | 0.21 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 UJ | < 0.019 U | < 0.019 U | < 0.019 U |
| Hexachlorobutadiene | 1.2 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Hexachloroethane | 1.8 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Indeno(1,2,3-cd)pyrene | **0.5** | **0.0063** | < 0.00074 U | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.020 J+** | **0.0053 J** | **0.11** | **0.0057** | < 0.0023 U |
| Isophorone | 570 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Naphthalene | 3.8 | **0.0013 J** | **0.0010** | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.0013 J+** | **0.0014 J+** | **0.018** | **0.00097** | < 0.0023 U |
| Nitrobenzene | 5.1 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| n-Nitrosodimethylamine | 0.002 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| n-Nitrosodiphenylamine | 110 | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U | < 0.018 U | < 0.017 U | < 0.018 U | < 0.020 U | < 0.019 U | < 0.019 U | < 0.019 U |
| Pentachlorophenol | 1 | < 0.10 U | < 0.093 UJ | < 0.096 UJ | < 0.096 UJ | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| Phenanthrene | 100 | **0.0080** | **0.00084** | < 0.00077 U | < 0.00077 U | < 0.0070 U | **0.0021** | **0.012 J+** | **0.015 J+** | **0.29** | **0.0077 J+** | < 0.0023 U |
| Phenol | 100 | < 0.10 U | < 0.093 U | < 0.096 U | < 0.096 U | < 0.088 U | < 0.085 U | < 0.092 U | < 0.10 U | < 0.095 U | < 0.096 U | < 0.094 U |
| Pyrene | 100 | **0.024** | **0.0011** | < 0.00077 U | < 0.00077 U | < 0.0070 U | < 0.0021 U | **0.032 J+** | **0.023 J** | **0.68** | **0.027 J** | < 0.0023 U |
| Total BaP PAHs Calculated | **0.115** | **0.0207** | **0.00175** | **0.00178** | **0.00178** | **0.0162** | **0.00485** | **0.0411** | **0.0181** | **0.381** | **0.0174** | **0.00532** |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 UJ | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 UJ |
| 1,1,1-Trichloroethane | 100 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,1,2,2-Tetrachloroethane | 0.6 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,1,2-Trichloroethane | 0.15 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,1-Dichloroethane | 3.6 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,1-Dichloroethene | 23 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,2,3-Trichloropropane | 0.0051 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,2,4-Trimethylbenzene | 5.8 | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.0028 U | < 0.0018 UJ | < 0.0020 UJ | < 0.0019 UJ | < 0.0020 U | < 0.0021 U | < 0.097 U | < 0.0020 UJ | < 0.0084 U | < 0.0022 U | < 0.093 U |
| 1,2-Dibromoethane | 0.036 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,2-Dichloroethane | 0.46 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,2-Dichloropropane | 1 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| 1,3,5-Trimethylbenzene | 47 | | | | | | | | | | | |
| 2-Butanone | 100 | < 0.014 UJ | < 0.0092 UJ | **0.0064 J** | < 0.0097 UJ | < 0.0098 U | < 0.011 U | < 0.49 U | **0.013 J** | < 0.042 U | **0.0069 J** | < 0.47 U |
| 2-Hexanone | 20 | < 0.0028 U | < 0.0018 U | < 0.0020 U | < 0.0019 U | < 0.0020 U | < 0.0021 U | < 0.058 U | < 0.0020 UJ | < 0.0084 U | < 0.0022 U | < 0.056 U |
| 4-Isopropyltoluene | 190 | | | | | | | | | | | |
| Acetone | 100 | < 0.0028 UJ | **0.010 J** | **0.068 J-** | **0.078 J-** | < 0.0020 UJ | < 0.0021 UJ | < 0.39 U | **0.22 J** | < 0.0084 UJ | **0.15 J+** | **0.13 J** |
| Benzene | 1.2 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Bromodichloromethane | 0.29 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 UJ | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 UJ |
| Bromoform | 19 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 UJ | < 0.00064 UJ | < 0.058 U | < 0.00059 UJ | < 0.0025 UJ | < 0.00065 UJ | < 0.056 U |
| Carbon disulfide | 77 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Carbon tetrachloride | 0.65 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H16 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H17 | CH-AOC-H18 | CH-AOC-H18 | CH-AOC-H2 | CH-AOC-H2 | CH-AOC-H20 | CH-AOC-H20 | CH-AOC-H21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H16-SB01 | H17-SB01 | H17-SB02 | H17-SB03 | H18-SS01 | H18-SS02 | H2-SS01 | H2-SS02 | H20-SS01 | H20-SS02 | H21-SB02 |
| | Sample Date | 6/13/2016 | 6/9/2016 | 6/16/2016 | 6/9/2016 | 6/12/2016 | 6/12/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/14/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 9 - 10 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| Chemical | SubSurface Criteria [1] (mg/kg) | | | | | | | | | | | |
| Chlorobenzene | 28 | < 0.00085 U | < 0.00055 UJ | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Chloroethane | 1400 | < 0.0014 U | < 0.00092 U | < 0.0010 U | < 0.00097 U | < 0.00098 U | < 0.0011 U | < 0.39 UJ | < 0.00099 U | < 0.0042 U | < 0.0011 U | < 0.37 UJ |
| Chloroform | 0.32 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Chloromethane | 11 | < 0.00085 U | < 0.00055 UJ | < 0.00061 UJ | < 0.00058 UJ | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| cis-1,2-Dichloroethene | 16 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| cis-1,3-Dichloropropene | NE | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Dibromochloromethane | 8.3 | < 0.00085 U | < 0.00055 UJ | < 0.00061 U | < 0.00058 U | < 0.00059 UJ | < 0.00064 UJ | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Dichlorodifluoromethane | 8.7 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Ethylbenzene | 5.8 | < 0.00085 U | < 0.00055 UJ | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Isopropylbenzene | 190 | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | |
| Methylene chloride | 35 | < 0.0028 UJ | < 0.0018 UJ | < 0.0020 UJ | < 0.0019 U | < 0.0020 U | < 0.0021 UJ | < 0.058 U | < 0.0020 UJ | < 0.0084 U | < 0.0022 U | **0.070 J** |
| Naphthalene | 3.8 | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | |
| Styrene | 600 | < 0.00085 U | < 0.00055 UJ | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 UJ | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 UJ |
| tert-Butylbenzene | 100 | | | | | | | | | | | |
| Tetrachloroethene | 5.5 | < 0.00085 U | < 0.00055 UJ | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Toluene | 100 | < 0.00085 U | < 0.00055 UJ | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| trans-1,2-Dichloroethene | 100 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| trans-1,3-Dichloropropene | 1.8 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Trichloroethene | 0.41 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 UJ | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Trichlorofluoromethane | 2300 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Vinyl Acetate | 91 | < 0.00085 U | < 0.00055 UJ | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Vinyl chloride | 0.059 | < 0.00085 U | < 0.00055 U | < 0.00061 U | < 0.00058 U | < 0.00059 U | < 0.00064 U | < 0.058 U | < 0.00059 U | < 0.0025 U | < 0.00065 U | < 0.056 U |
| Xylenes (total) | 58 | < 0.0025 U | < 0.0017 UJ | < 0.0018 U | < 0.0018 U | < 0.0018 U | < 0.0019 U | < 0.15 U | < 0.0018 UJ | < 0.0076 U | < 0.0019 U | < 0.14 U |

Notes:
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 | H5-SS03 | H5-SS04 |
| | Sample Date | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 5 - 6 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | |
| Nitrobenzene | 5.1 | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | 27822 | **1300** | **11000** | **9400** | **14000** | **12000** | | | **15000** | **6000** | | |
| Antimony | 10.3 | **0.86** | **4.3** | **1.3** | **1.7** | **2.5** | | | **0.98** | **1.3** | | |
| Arsenic | **3.383** | < 0.70 U | **1.9** | **1.6** | **2.1** | **1.6** | | | < 0.91 U | **0.77 J** | | |
| Barium | 350 | **10** | **32** | **13** | **19** | **25** | | | **19** | **17** | | |
| Beryllium | 14 | **0.45** | **0.055 J** | **0.019 J** | **0.10 J** | **0.078 J** | | | **0.29** | **1.3** | | |
| Cadmium | 2.5 | **0.36** | < 0.036 U | **0.034 J** | **0.030 J** | < 0.040 U | | | **0.074 J** | **1.1** | | |
| Calcium (Ca) | **751.8** | **160** | **580** | **420** | **460** | **490** | | | **290** | **240** | | |
| Chromium | **33.92** | **0.77** | **16** | **9.0** | **15** | **15** | | | **17** | **5.9** | | |
| Cobalt | 10.24 | **0.87** | **4.3** | **1.3** | **1.8** | **2.5** | | | **0.90 J** | **1.3** | | |
| Copper | 270 | **3.9** | **31** | **18** | **31** | **30** | | | **8.1** | **12** | | |
| Iron (Fe) | **19000** | **1000** | **12000** | **9000** | **15000** | **14000** | | | **2200** | **670** | | |
| Lead | 400 | **2.1 J** | **3.4 J** | **3.8 J** | **5.6** | **4.8** | **3.2 J** | **2.8 J** | **6.3** | **4.3 J** | **44** | **5.0 J** |
| Magnesium (Mg) | 8315 | **170** | **2200** | **630** | **1100** | **1000** | | | **880** | **160** | | |
| Manganese (Mn) | 656.8 | **40** | **230** | **83** | **82** | **99** | | | **39** | **14** | | |
| Nickel | 140 | **1.8 J** | **8.8** | **3.9** | **6.4** | **6.1** | | | **3.9 J** | **3.0 J** | | |
| Potassium (K) | NE | **300** | **1300** | **280** | **350** | **360** | | | **580** | **330** | | |
| Selenium | 36 | < 1.1 U | < 1.1 U | < 1.2 U | < 1.2 U | < 1.2 U | | | < 1.4 U | < 1.5 U | | |
| Silver | 36 | **0.25 J** | < 0.18 U | < 0.20 U | < 0.20 U | < 0.20 U | | | < 0.23 U | **0.67 J** | | |
| Sodium (Na) | **320** | **130** | **90** | **51** | **82** | **58** | | | **81** | **130** | | |
| Thallium | 0.414 | < 0.036 U | **0.12 J** | **0.048 J** | **0.066 J** | **0.094 J** | | | **0.078 J** | **0.068 J** | | |
| Vanadium | **46.28** | **2.3** | **21** | **13** | **22** | **23** | | | **10** | **7.5** | | |
| Zinc | 2200 | **7.8** | **18** | **11** | **31** | **32** | | | **19** | **18** | | |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1221 | 0.2 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1232 | 0.17 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1242 | 0.23 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1248 | 0.23 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1254 | 0.12 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1260 | 0.24 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1262 | 0.24 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |
| Aroclor 1268 | 0.24 | < 0.0074 UJ | < 0.0072 U | < 0.0077 U | < 0.0080 U | < 0.0083 U | < 0.0073 U | < 0.0081 U | < 0.0092 U | < 0.010 U | < 0.027 UJ | < 0.015 UJ |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 |
| | **Location ID** | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 | H5-SS03 | H5-SS04 |
| | **Sample Date** | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 |
| | **Depth Interval** | 5 - 6 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 1,2-Dichlorobenzene | 100 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 1,3-Dichlorobenzene | 17 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 1,4-Dichlorobenzene | 2.6 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 1-Methylnaphthalene | 18 | **0.011 J+** | < 0.0022 U | < 0.0023 U | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |
| 2,4,5-Trichlorophenol | 630 | < 0.037 U | < 0.11 U | < 0.038 U | < 0.040 U | < 0.041 U | | | < 0.045 U | < 0.15 UJ | | |
| 2,4,6-Trichlorophenol | 6.3 | < 0.037 U | < 0.11 U | < 0.038 U | < 0.040 U | < 0.041 U | | | < 0.045 U | < 0.15 UJ | | |
| 2,4-Dichlorophenol | 19 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| 2,4-Dimethylphenol | 130 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| 2,4-Dinitrophenol | 13 | < 0.18 U | < 0.54 U | < 0.19 U | < 0.20 UJ | < 0.21 UJ | | | < 0.22 U | < 0.76 UJ | | |
| 2,4-Dinitrotoluene | 1.7 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 2,6-Dinitrotoluene | 0.36 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 2-Chloronaphthalene | 480 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 2-Chlorophenol | 39 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| 2-Methylnaphthalene | 24 | **0.012 J+** | < 0.0022 U | < 0.0023 U | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |
| 2-Methylphenol | 100 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 U | | |
| 2-Nitroaniline | 63 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 2-Nitrophenol | 13 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| 3,3-Dichlorobenzidine | 1.2 | < 0.73 U | < 2.1 U | < 0.77 U | < 0.80 U | < 0.83 U | | | < 0.90 UJ | < 3.0 UJ | | |
| 3,4-Methylphenol | NE | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 U | | |
| 3-Nitroaniline | 63 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| 4-Bromophenyl-phenylether | NE | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| 4-Chloro-3-methylphenol | 630 | < 0.037 U | < 0.11 U | < 0.038 U | < 0.040 U | < 0.041 U | | | < 0.045 U | < 0.15 UJ | | |
| 4-Chloroaniline | 2.7 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 U | | |
| 4-Chlorophenyl-phenylether | NE | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| 4-Nitroaniline | 25 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| 4-Nitrophenol | 13 | < 0.37 U | < 1.1 U | < 0.38 U | < 0.40 U | < 0.41 U | | | < 0.45 U | < 1.5 UJ | | |
| Acenaphthene | 100 | < 0.0022 U | < 0.0022 U | < 0.0023 U | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |
| Acenaphthylene | 100 | < 0.0022 U | < 0.0022 U | **0.0026** | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |
| Anthracene | 100 | < 0.0022 U | < 0.0022 U | **0.0046** | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | **0.0016** | | |
| Benzo(a)anthracene | **1** | **0.013 J+** | **0.0044** | **0.015** | **0.0016** | **0.0039** | | | **0.0012** | < 0.0010 U | | |
| Benzo(a)pyrene | **0.115** | **0.0031 J+** | **0.0044** | **0.015** | **0.0014** | **0.0035** | | | < 0.00090 U | **0.0013** | | |
| Benzo(b)fluoranthene | **1** | **0.022 J+** | **0.010** | **0.027** | **0.0035** | **0.0064** | | | < 0.00090 U | **0.0020** | | |
| Benzo(g,h,i)perylene | 100 | **0.0051 J+** | < 0.0022 U | < 0.0023 U | < 0.00080 U | **0.0024 J+** | | | < 0.00090 U | < 0.0010 U | | |
| Benzo(k)fluoranthene | **1** | **0.0053 J+** | **0.0023** | **0.012** | < 0.00080 U | **0.0023** | | | < 0.00090 U | < 0.0010 U | | |
| Benzoic acid | 25000 | **0.76 J** | < 1.1 UJ | < 0.38 UJ | **0.27 J** | **0.31 J** | | | < 0.45 U | < 1.5 UJ | | |
| Benzyl Alcohol | 630 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Bis(2-chloroethoxy)methane | 19 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | **0.034 J** | | | < 0.022 U | < 0.076 UJ | | |
| Bis(2-chloroethyl)ether | 0.23 | < 0.037 U | < 0.11 U | < 0.038 U | < 0.040 U | < 0.041 U | | | < 0.045 U | < 0.15 UJ | | |
| Bis(2-ethylhexyl)phthalate | 39 | < 0.037 U | < 0.11 U | < 0.038 U | < 0.040 U | < 0.041 U | | | < 0.045 U | < 0.15 UJ | | |
| Butyl benzyl phthalate | 290 | < 0.037 U | < 0.11 U | < 0.038 U | < 0.040 U | < 0.041 U | | | < 0.045 U | < 0.15 UJ | | |
| CARBAZOLE | 240 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Chrysene | **1** | **0.011 J+** | **0.0054** | **0.016** | **0.0018** | **0.0032** | | | < 0.00090 U | **0.0010** | | |
| Dibenz(a,h)anthracene | **0.115** | < 0.0022 U | < 0.0022 U | < 0.0023 U | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 | H5-SS03 | H5-SS04 |
| | Sample Date | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 |
| | Depth Interval | 5 - 6 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Dibenzofuran | **7.3** | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Diethyl phthalate | 5100 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Dimethyl phthalate | 5100 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Di-n-butyl phthalate | 630 | < 0.037 U | < 0.11 U | < 0.038 U | < 0.040 U | < 0.041 U | | | < 0.045 U | < 0.15 UJ | | |
| Di-n-octyl phthalate | 63 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Fluoranthene | 100 | **0.025 J+** | **0.010** | **0.027** | **0.0037** | **0.0074** | | | < 0.00090 U | < 0.0010 U | | |
| Fluorene | 100 | < 0.0022 U | < 0.0022 U | < 0.0023 U | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |
| Hexachlorobenzene | 0.21 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Hexachlorobutadiene | 1.2 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Hexachloroethane | 1.8 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Indeno(1,2,3-cd)pyrene | **0.5** | **0.0051 J+** | < 0.0022 U | < 0.0023 U | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |
| Isophorone | 570 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Naphthalene | 3.8 | **0.014 J+** | < 0.0022 U | < 0.0023 U | < 0.00080 U | < 0.00084 U | | | < 0.00090 U | < 0.0010 U | | |
| Nitrobenzene | 5.1 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| n-Nitrosodimethylamine | 0.002 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| n-Nitrosodiphenylamine | 110 | < 0.018 U | < 0.054 U | < 0.019 U | < 0.020 U | < 0.021 U | | | < 0.022 U | < 0.076 UJ | | |
| Pentachlorophenol | 1 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| Phenanthrene | 100 | **0.012 J+** | **0.0029** | **0.0078** | **0.0018** | **0.0044** | | | < 0.00090 U | **0.0016** | | |
| Phenol | 100 | < 0.092 U | < 0.27 U | < 0.096 U | < 0.10 U | < 0.10 U | | | < 0.11 U | < 0.38 UJ | | |
| Pyrene | 100 | **0.028 J+** | **0.0087** | **0.023** | **0.0027** | **0.0071** | | | < 0.00090 U | **0.0018** | | |
| Total BaP PAHs Calculated | **0.115** | **0.00937** | **0.00829** | **0.0219** | **0.00280** | **0.00548** | | | **0.00211** | **0.00271** | | |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | < 0.073 UJ | < 0.069 UJ | < 0.075 UJ | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,1,1-Trichloroethane | 100 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,1,2,2-Tetrachloroethane | 0.6 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,1,2-Trichloroethane | 0.15 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,1-Dichloroethane | 3.6 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,1-Dichloroethene | 23 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,2,3-Trichloropropane | 0.0051 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,2,4-Trimethylbenzene | 5.8 | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.12 U | < 0.12 U | < 0.12 U | < 0.0032 U | < 0.0025 U | | | < 0.21 U | < 0.57 U | | |
| 1,2-Dibromoethane | 0.036 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,2-Dichloroethane | 0.46 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,2-Dichloropropane | 1 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| 1,3,5-Trimethylbenzene | 47 | | | | | | | | | | | |
| 2-Butanone | 100 | < 0.61 U | < 0.58 U | < 0.62 U | < 0.016 U | < 0.013 U | | | < 0.53 U | < 1.4 U | | |
| 2-Hexanone | 20 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.0032 U | < 0.0025 U | | | < 0.11 U | < 0.29 U | | |
| 4-Isopropyltoluene | 190 | | | | | | | | | | | |
| Acetone | 100 | **0.21 J** | < 0.46 U | < 0.50 U | **0.22 J+** | **0.13 J+** | | | < 0.21 U | < 0.57 U | | |
| Benzene | 1.2 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Bromodichloromethane | 0.29 | < 0.073 UJ | < 0.069 UJ | < 0.075 UJ | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Bromoform | 19 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 UJ | < 0.00075 UJ | | | < 0.063 UJ | < 0.17 UJ | | |
| Carbon disulfide | 77 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Carbon tetrachloride | 0.65 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-H21 | CH-AOC-H22 | CH-AOC-H22 | CH-AOC-H3 | CH-AOC-H3 | CH-AOC-H4 | CH-AOC-H4 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 | CH-AOC-H5 |
| | **Location ID** | H21-SB03 | H22-SS01 | H22-SS02 | H3-SS01 | H3-SS02 | H4-SB02 | H4-SB03 | H5-SS01 | H5-SS02 | H5-SS03 | H5-SS04 |
| | **Sample Date** | 6/14/2016 | 6/15/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/12/2016 | 6/12/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 | 6/13/2016 |
| | **Depth Interval** | 5 - 6 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 4 - 5 ft | 4 - 5 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft | 1 - 2 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Chlorobenzene | 28 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Chloroethane | 1400 | < 0.49 UJ | < 0.46 UJ | < 0.50 UJ | < 0.0016 U | < 0.0013 U | | | < 0.21 U | < 0.57 U | | |
| Chloroform | 0.32 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Chloromethane | 11 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| cis-1,2-Dichloroethene | 16 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| cis-1,3-Dichloropropene | NE | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Dibromochloromethane | 8.3 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Dichlorodifluoromethane | 8.7 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.21 U | < 0.57 U | | |
| Ethylbenzene | 5.8 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Isopropylbenzene | 190 | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | |
| Methylene chloride | 35 | < 0.073 U | **0.060 J** | **0.073 J** | < 0.0032 U | < 0.0025 U | | | < 0.11 U | < 0.29 U | | |
| Naphthalene | 3.8 | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | |
| Styrene | 600 | < 0.073 UJ | < 0.069 UJ | < 0.075 UJ | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| tert-Butylbenzene | 100 | | | | | | | | | | | |
| Tetrachloroethene | 5.5 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Toluene | 100 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| trans-1,2-Dichloroethene | 100 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| trans-1,3-Dichloropropene | 1.8 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Trichloroethene | 0.41 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Trichlorofluoromethane | 2300 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Vinyl Acetate | 91 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Vinyl chloride | 0.059 | < 0.073 U | < 0.069 U | < 0.075 U | < 0.00097 U | < 0.00075 U | | | < 0.063 U | < 0.17 U | | |
| Xylenes (total) | 58 | < 0.18 U | < 0.17 U | < 0.19 U | < 0.0029 U | < 0.0023 U | | | < 0.19 U | < 0.51 U | | |

Notes:
All units are in milligrams per kilogram (mg/kg).
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | P113-SB01 | P113-SB01 | P113-SB02 | WDS-SB02 | WDS-SB03 | WDS-SB06 | WDS-SB07 | WDS-SB08 | WDS-SB09 | WDS-SB10 | WDS-SB11 |
| | Sample Date | 6/12/2016 | 6/14/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/13/2016 |
| | Depth Interval | 3 - 4 ft | 4 - 5 ft | 3 - 4 ft | 1 - 2 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 7 - 8 ft | 7 - 8 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | |
| Nitrobenzene | 5.1 | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | 27822 | | | | **5800** | **7100** | **10000** | **13000** | **13000** | **11000** | **7300** | **13000** |
| Antimony | 10.3 | | | | **1.9** | **1.8** | **2.3** | **4.4** | **2.0** | **2.7** | **2.7** | **2.9** |
| Arsenic | **3.383** | | | | **1.2 J** | **1.4 J** | **1.6** | **1.5 J** | **1.7** | **0.69 J** | **1.1 J** | **1.7** |
| Barium | 350 | | | | **24** | **19** | **24** | **42** | **21** | **29** | **21** | **28** |
| Beryllium | 14 | | | | **0.033 J** | **0.065 J** | **0.063 J** | **2.3** | **0.080 J** | **0.15 J** | < 0.037 U | **0.071 J** |
| Cadmium | 2.5 | | | | **0.082 J** | **0.061 J** | < 0.037 U | **1.8** | **0.071 J** | < 0.037 U | < 0.037 U | < 0.036 U |
| Calcium (Ca) | **751.8** | | | | **1000** | **1100** | **740** | **1400** | **2600** | **1000** | **650** | **750** |
| Chromium | **33.92** | | | | **7.4** | **11** | **13** | **15** | **12** | **15** | **9.7** | **15** |
| Cobalt | 10.24 | | | | **2.1** | **2.0** | **2.5** | **4.5** | **1.9** | **2.7** | **2.9** | **2.9** |
| Copper | 270 | | | | **22** | **20** | **27** | **24** | **28** | **24** | **24** | **22** |
| Iron (Fe) | **19000** | | | | **8300** | **7200** | **11000** | **8100** | **12000** | **8200** | **9200** | **7000** |
| Lead | 400 | **4.6** | **3.1 J** | **2.2 J** | **12** | **5.6** | **3.8** | **9.6** | **7.7** | **2.9 J** | **2.1 J** | **3.6** |
| Magnesium (Mg) | 8315 | | | | **1100** | **1100** | **1600** | **1700** | **910** | **2100** | **1200** | **2300** |
| Manganese (Mn) | 656.8 | | | | **130** | **90** | **100** | **96** | **120** | **110** | **150** | **120** |
| Nickel | 140 | | | | **4.7** | **4.9** | **6.7** | **10** | **4.0 J** | **7.5** | **4.9** | **9.3** |
| Potassium (K) | NE | | | | **640** | **440** | **680** | **880** | **440** | **1100** | **800** | **1200** |
| Selenium | 36 | | | | < 1.0 U | < 1.2 U | < 1.1 U | < 1.4 U | < 1.3 U | < 1.1 U | < 1.1 U | < 1.1 U |
| Silver | 36 | | | | < 0.17 U | < 0.19 U | < 0.18 U | **2.7** | < 0.22 U | < 0.18 U | < 0.19 U | < 0.18 U |
| Sodium (Na) | **320** | | | | **68** | **110** | **89** | **130** | **59** | **100** | **78** | **100** |
| Thallium | 0.414 | | | | **0.068 J** | **0.067 J** | **0.18** | **0.089 J** | **0.10 J** | **0.091 J** | **0.087 J** | **0.10 J** |
| Vanadium | **46.28** | | | | **13** | **15** | **22** | **17** | **22** | **17** | **14** | **18** |
| Zinc | 2200 | | | | **23** | **14** | **14** | **37** | **17** | **17** | **10** | **21** |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1221 | 0.2 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1232 | 0.17 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1242 | 0.23 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1248 | 0.23 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1254 | 0.12 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1260 | 0.24 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1262 | 0.24 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |
| Aroclor 1268 | 0.24 | | | | < 0.0073 UJ | < 0.0077 U | < 0.0075 U | < 0.0091 U | < 0.0086 U | < 0.0074 U | < 0.0073 U | < 0.0073 U |

Notes:
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | P113-SB01 | P113-SB01 | P113-SB02 | WDS-SB02 | WDS-SB03 | WDS-SB06 | WDS-SB07 | WDS-SB08 | WDS-SB09 | WDS-SB10 | WDS-SB11 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/13/2016 |
| | Depth Interval | 3 - 4 ft | 4 - 5 ft | 3 - 4 ft | 1 - 2 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 7 - 8 ft | 7 - 8 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 1,2-Dichlorobenzene | 100 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 1,3-Dichlorobenzene | 17 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 1,4-Dichlorobenzene | 2.6 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 1-Methylnaphthalene | 18 | | | | **0.085** | < 0.0078 U | **1.7 J+** | **0.0050 J+** | < 0.00088 U | **0.0077** | < 0.00074 U | < 0.00074 U |
| 2,4,5-Trichlorophenol | 630 | | | | < 0.036 U | < 0.038 U | < 0.037 U | < 0.045 U | < 0.043 U | < 0.038 U | < 0.037 U | < 0.036 U |
| 2,4,6-Trichlorophenol | 6.3 | | | | < 0.036 U | < 0.038 U | < 0.037 U | < 0.045 U | < 0.043 U | < 0.038 U | < 0.037 U | < 0.036 U |
| 2,4-Dichlorophenol | 19 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 2,4-Dimethylphenol | 130 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 2,4-Dinitrophenol | 13 | | | | < 0.18 U | < 0.19 U | < 0.18 U | < 0.22 U | < 0.22 U | < 0.19 U | < 0.18 U | < 0.18 U |
| 2,4-Dinitrotoluene | 1.7 | | | | **0.028 J** | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 2,6-Dinitrotoluene | 0.36 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 2-Chloronaphthalene | 480 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 2-Chlorophenol | 39 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 2-Methylnaphthalene | 24 | | | | **0.063** | **0.0088** | **2.0 J+** | **0.0055** | **0.0027** | **0.0081** | < 0.00074 U | < 0.00074 U |
| 2-Methylphenol | 100 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 2-Nitroaniline | 63 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 2-Nitrophenol | 13 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 3,3-Dichlorobenzidine | 1.2 | | | | < 0.72 U | < 0.76 U | < 0.74 U | < 0.89 U | < 0.87 UJ | < 0.76 UJ | < 0.73 UJ | < 0.72 UJ |
| 3,4-Methylphenol | NE | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 3-Nitroaniline | 63 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 4,6-Dinitro-2-methylphenol | 0.51 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 4-Bromophenyl-phenylether | NE | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 UJ | < 0.091 U |
| 4-Chloro-3-methylphenol | 630 | | | | < 0.036 U | < 0.038 U | < 0.037 U | < 0.045 U | < 0.043 U | < 0.038 U | < 0.037 U | < 0.036 U |
| 4-Chloroaniline | 2.7 | | | | < 0.090 U | < 0.095 U | **0.71** | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| 4-Chlorophenyl-phenylether | NE | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| 4-Nitroaniline | 25 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 UJ | < 0.091 U |
| 4-Nitrophenol | 13 | | | | < 0.36 U | < 0.38 U | < 0.37 U | < 0.45 U | < 0.43 U | < 0.38 U | < 0.37 U | < 0.36 U |
| Acenaphthene | 100 | < 0.00082 U | < 0.00077 U | < 0.00077 U | **0.47** | **0.015** | **7.6 J+** | < 0.0027 U | **0.0045 J** | **0.035** | < 0.00074 U | < 0.00074 U |
| Acenaphthylene | 100 | < 0.00082 U | < 0.00077 U | < 0.00077 U | < 0.036 U | **0.011** | **0.26 J+** | < 0.0027 U | **0.0050 J** | **0.0021** | < 0.00074 U | < 0.00074 U |
| Anthracene | 100 | < 0.00082 U | < 0.00077 U | < 0.00077 U | **1.2** | **0.041** | **10 J+** | < 0.0027 U | **0.043 J** | **0.12** | < 0.00074 U | < 0.00074 U |
| Benzo(a)anthracene | **1** | < 0.00082 U | **0.00085** | < 0.00077 U | **2.7** | **0.21** | **170 J+** | **0.0051** | **0.025 J** | **0.19** | < 0.00074 U | < 0.00074 U |
| Benzo(a)pyrene | **0.115** | < 0.00082 U | < 0.00077 U | < 0.00077 U | **2.2** | **0.17** | **8.8 J+** | **0.0059** | **0.041 J** | **0.14** | < 0.00074 U | < 0.00074 U |
| Benzo(b)fluoranthene | **1** | < 0.00082 U | **0.0019** | < 0.00077 U | **3.2** | **0.25** | **16 J+** | **0.011** | **0.031 J** | **0.21** | < 0.00074 U | < 0.00074 U |
| Benzo(g,h,i)perylene | 100 | < 0.00082 U | < 0.00077 U | < 0.00077 U | **0.75** | **0.083** | **2.9 J+** | **0.0030** | **0.020 J** | **0.038** | < 0.00074 U | < 0.00074 U |
| Benzo(k)fluoranthene | **1** | < 0.00082 U | < 0.00077 U | < 0.00077 U | **0.96** | **0.12** | **0.049 J+** | **0.0030** | **0.025 J** | **0.064** | < 0.00074 U | < 0.00074 U |
| Benzoic acid | 25000 | | | | < 0.36 UJ | < 0.38 UJ | < 0.37 U | < 0.45 UJ | < 0.43 U | < 0.38 U | < 0.37 U | < 0.36 U |
| Benzyl Alcohol | 630 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Bis(2-chloro-1-methylethyl) ether | 310 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Bis(2-chloroethoxy)methane | 19 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Bis(2-chloroethyl)ether | 0.23 | | | | < 0.036 U | < 0.038 U | < 0.037 U | < 0.045 U | < 0.043 U | < 0.038 U | < 0.037 UJ | < 0.036 U |
| Bis(2-ethylhexyl)phthalate | 39 | | | | < 0.036 U | **0.048 J** | < 0.037 U | < 0.045 U | < 0.043 U | < 0.038 U | < 0.037 UJ | < 0.036 U |
| Butyl benzyl phthalate | 290 | | | | < 0.036 U | **0.089 J** | < 0.037 U | < 0.045 U | < 0.043 U | < 0.038 U | < 0.037 UJ | < 0.036 U |
| CARBAZOLE | 240 | | | | **0.41** | **0.022 J** | **9.7 J-** | < 0.022 U | < 0.022 U | **0.028 J** | < 0.018 UJ | < 0.018 U |
| Chrysene | **1** | < 0.00082 U | < 0.00077 U | < 0.00077 U | **2.2** | **0.17** | **20 J+** | **0.0041** | **0.024 J** | **0.14** | < 0.00074 U | < 0.00074 U |
| Dibenz(a,h)anthracene | **0.115** | < 0.00082 U | < 0.00077 U | < 0.00077 U | **0.19** | < 0.0078 U | **1.7 J+** | < 0.0027 U | **0.0012 J** | **0.038** | < 0.00074 U | < 0.00074 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | P113-SB01 | P113-SB01 | P113-SB02 | WDS-SB02 | WDS-SB03 | WDS-SB06 | WDS-SB07 | WDS-SB08 | WDS-SB09 | WDS-SB10 | WDS-SB11 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/13/2016 |
| | Depth Interval | 3 - 4 ft | 4 - 5 ft | 3 - 4 ft | 1 - 2 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 7 - 8 ft | 7 - 8 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Dibenzofuran | **7.3** | | | | **0.19** | < 0.019 U | **11 J-** | < 0.022 U | < 0.022 U | **0.027 J** | < 0.018 UJ | < 0.018 U |
| Diethyl phthalate | 5100 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Dimethyl phthalate | 5100 | | | | < 0.018 U | **0.094 J** | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Di-n-butyl phthalate | 630 | | | | **0.027 J** | **0.035 J** | < 0.037 U | < 0.045 U | < 0.043 U | < 0.038 U | < 0.037 UJ | < 0.036 U |
| Di-n-octyl phthalate | 63 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Fluoranthene | 100 | < 0.00082 U | **0.0013** | < 0.00077 U | **5.9** | **0.24** | **23 J+** | **0.0090** | **0.048 J** | **0.42** | < 0.00074 U | < 0.00074 U |
| Fluorene | 100 | < 0.00082 U | < 0.00077 U | < 0.00077 U | **0.55** | **0.015** | **9.7 J+** | < 0.0027 U | **0.0048 J** | **0.048** | < 0.00074 U | < 0.00074 U |
| Hexachlorobenzene | 0.21 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Hexachlorobutadiene | 1.2 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Hexachloroethane | 1.8 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Indeno(1,2,3-cd)pyrene | **0.5** | < 0.00082 U | < 0.00077 U | < 0.00077 U | **1.0** | **0.083** | **2.9 J+** | **0.0036** | **0.019 J** | **0.052** | < 0.00074 U | < 0.00074 U |
| Isophorone | 570 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Naphthalene | 3.8 | | | | **0.096** | **0.010** | **1.9 J+** | **0.0046** | **0.0028** | **0.0088** | < 0.00074 U | < 0.00074 U |
| Nitrobenzene | 5.1 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| n-Nitrosodimethylamine | 0.002 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| n-Nitroso-di-n-propylamine | 0.078 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| n-Nitrosodiphenylamine | 110 | | | | < 0.018 U | < 0.019 U | < 0.018 U | < 0.022 U | < 0.022 U | < 0.019 U | < 0.018 UJ | < 0.018 U |
| Pentachlorophenol | 1 | | | | < 0.090 U | < 0.095 U | < 0.092 U | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| Phenanthrene | 100 | < 0.00082 U | **0.0011** | < 0.00077 U | **3.9** | **0.20** | **22 J+** | **0.0032** | **0.042 J** | **0.31** | < 0.00074 U | < 0.00074 U |
| Phenol | 100 | | | | < 0.090 U | < 0.095 U | **0.042 J** | < 0.11 U | < 0.11 U | < 0.094 U | < 0.092 U | < 0.091 U |
| Pyrene | 100 | < 0.00082 U | **0.0019** | < 0.00077 U | **4.5** | **0.34** | **99 J+** | **0.0077** | **0.043 J** | **0.32** | < 0.00074 U | < 0.00074 U |
| Total BaP PAHs Calculated | **0.115** | **0.00190** | **0.00190** | **0.00178** | **3.09** | **0.233** | **29.4** | **0.0106** | **0.0500** | **0.224** | **0.00171** | **0.00171** |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,1,1-Trichloroethane | 100 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,1,2,2-Tetrachloroethane | 0.6 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,1,2-Trichloroethane | 0.15 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,1-Dichloroethane | 3.6 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,1-Dichloroethene | 23 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,2,3-Trichloropropane | 0.0051 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,2,4-Trimethylbenzene | 5.8 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | | | | < 0.0024 U | < 0.0022 U | < 0.0021 U | < 0.0022 U | < 0.22 U | < 0.0020 U | < 0.0017 U | < 0.0017 U |
| 1,2-Dibromoethane | 0.036 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,2-Dichloroethane | 0.46 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,2-Dichloropropane | 1 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| 1,3,5-Trimethylbenzene | 47 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| 2-Butanone | 100 | | | | **0.0080 J** | **0.013 J** | < 0.011 U | **0.014 J** | < 0.54 U | < 0.010 U | < 0.0086 U | < 0.0085 U |
| 2-Hexanone | 20 | | | | < 0.0024 U | < 0.0022 U | < 0.0021 U | < 0.0022 U | < 0.11 U | < 0.0020 U | < 0.0017 U | < 0.0017 U |
| 4-Isopropyltoluene | 190 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| Acetone | 100 | | | | < 0.0024 UJ | **0.097 J+** | **0.12 J+** | **0.22 J+** | < 0.22 U | < 0.0020 UJ | < 0.0017 UJ | < 0.0017 UJ |
| Benzene | 1.2 | < 0.0010 U | < 0.00098 U | < 0.00059 U | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Bromodichloromethane | 0.29 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Bromoform | 19 | | | | < 0.00073 UJ | < 0.00067 UJ | < 0.00063 UJ | < 0.00067 UJ | < 0.065 UJ | < 0.00060 UJ | < 0.00052 UJ | < 0.00051 UJ |
| Carbon disulfide | 77 | | | | < 0.00073 U | **0.00094 J** | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Carbon tetrachloride | 0.65 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
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FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
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NE - Not Established.
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PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
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VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-P113 | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | P113-SB01 | P113-SB01 | P113-SB02 | WDS-SB02 | WDS-SB03 | WDS-SB06 | WDS-SB07 | WDS-SB08 | WDS-SB09 | WDS-SB10 | WDS-SB11 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/13/2016 | 6/12/2016 | 6/13/2016 |
| | Depth Interval | 3 - 4 ft | 4 - 5 ft | 3 - 4 ft | 1 - 2 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 7 - 8 ft | 7 - 8 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N |
| Chemical | SubSurface Criteria [1] (mg/kg) | | | | | | | | | | | |
| Chlorobenzene | 28 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Chloroethane | 1400 | | | | < 0.0012 U | < 0.0011 U | < 0.0011 U | < 0.0011 U | < 0.22 U | < 0.0010 U | < 0.00086 U | < 0.00085 U |
| Chloroform | 0.32 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Chloromethane | 11 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| cis-1,2-Dichloroethene | 16 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| cis-1,3-Dichloropropene | NE | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Dibromochloromethane | 8.3 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 UJ | < 0.00052 UJ | < 0.00051 UJ |
| Dichlorodifluoromethane | 8.7 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.22 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Ethylbenzene | 5.8 | < 0.0010 U | < 0.00098 U | < 0.00059 U | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Isopropylbenzene | 190 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| Methyl tert-butyl ether | 47 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| Methylene chloride | 35 | | | | < 0.0024 U | < 0.0022 U | < 0.0021 U | < 0.0022 U | < 0.11 U | < 0.0020 U | < 0.0017 UJ | < 0.0017 U |
| Naphthalene | 3.8 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| n-Butylbenzene | 100 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| n-Propylbenzene | 100 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| sec-Butylbenzene | 100 | < 0.0017 U | < 0.0016 U | < 0.00099 U | | | | | | | | |
| Styrene | 600 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| tert-Butylbenzene | 100 | < 0.0010 U | < 0.00098 U | < 0.00059 U | | | | | | | | |
| Tetrachloroethene | 5.5 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Toluene | 100 | < 0.0010 U | < 0.00098 U | < 0.00059 U | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| trans-1,2-Dichloroethene | 100 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| trans-1,3-Dichloropropene | 1.8 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Trichloroethene | 0.41 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Trichlorofluoromethane | 2300 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Vinyl Acetate | 91 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Vinyl chloride | 0.059 | | | | < 0.00073 U | < 0.00067 U | < 0.00063 U | < 0.00067 U | < 0.065 U | < 0.00060 U | < 0.00052 U | < 0.00051 U |
| Xylenes (total) | 58 | < 0.0031 U | < 0.0029 U | < 0.0018 U | < 0.0022 U | < 0.0020 U | < 0.0019 U | < 0.0020 U | < 0.19 U | < 0.0018 U | < 0.0016 U | < 0.0015 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | WDS-SB12 | WDS-SB13 | WDS-SB20 | WDS-SB21 | WDS-SB22 | WDS-SB23 | WDS-SB24 | WDS-SB25 | WDS-SB26 | WDS-SB27 | WDS-SB27 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 3 - 4 ft | 7 - 8 ft | 4 - 5 ft | 7 - 8 ft | 7 - 8 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | |
| Nitrobenzene | 5.1 | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine | 390 | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | 27822 | **9300** | **10000** | **15000** | **5300** | **8200** | **4500** | **26000** | **4100** | **17000** | **13000** | **13000** |
| Antimony | 10.3 | **2.2** | **2.5** | **4.6** | **2.3** | **3.0** | **2.6** | **5.4** | **5.0** | **6.9** | **2.4** | **1.9** |
| Arsenic | **3.383** | **1.7** | **1.4 J** | **2.2** | **1.9** | **2.0** | **25** | **2.9** | **3.7** | **4.8** | **1.4 J** | **1.4 J** |
| Barium | 350 | **17** | **18** | **51** | **10** | **23** | **24** | **120** | **32** | **65** | **22** | **24** |
| Beryllium | 14 | < 0.036 U | **0.15 J** | **0.35** | **0.23** | **0.31** | **0.57** | **0.83** | **0.62** | **0.48** | **0.38** | **0.39** |
| Cadmium | 2.5 | **0.033 J** | **0.049 J** | **0.027 J** | **0.027 J** | **0.046 J** | **0.46** | **0.17 J** | **0.048 J** | **0.30** | **0.045 J** | **0.035 J** |
| Calcium (Ca) | **751.8** | **490** | **520** | **840** | **330** | **480** | **460** | **1600** | **870** | **1400** | **780** | **720** |
| Chromium | **33.92** | **12** | **13** | **17** | **7.2** | **9.9** | **9.2** | **36** | **12** | **20** | **12** | **13** |
| Cobalt | 10.24 | **2.4** | **2.5** | **5.1** | **2.4** | **3.0** | **2.6** | **5.6** | **5.1** | **6.9** | **2.6** | **2.0** |
| Copper | 270 | **20** | **23** | **41** | **19** | **25** | **29** | **52** | **27** | **49** | **24** | **25** |
| Iron (Fe) | **19000** | **9200** | **8800** | **16000** | **8100** | **11000** | **13000** | **15000** | **4700** | **23000** | **10000** | **8400** |
| Lead | 400 | **2.8 J** | **4.5** | **3.9 J** | **1.6 J** | **2.6 J** | **4.2** | **6.6** | **3.9** | **38** | **3.9 J** | **4.9** |
| Magnesium (Mg) | 8315 | **1200** | **1700** | **3600** | **820** | **1400** | **940** | **5800** | **1000** | **3400** | **1300** | **1200** |
| Manganese (Mn) | 656.8 | **90** | **87** | **330** | **86** | **270** | **84** | **250** | **330** | **320** | **110** | **98** |
| Nickel | 140 | **5.6** | **6.8** | **14** | **5.5** | **7.2** | **5.9** | **22** | **9.7** | **11** | **7.4** | **6.7** |
| Potassium (K) | NE | **400** | **560** | **2400** | **470** | **840** | **670** | **3200** | **850** | **2000** | **610** | **640** |
| Selenium | 36 | < 1.1 U | < 1.1 U | < 1.2 U | < 1.1 U | < 1.1 U | < 1.2 U | < 1.2 U | < 1.1 U | < 1.2 U | < 1.2 U | < 1.3 U |
| Silver | 36 | < 0.18 U | < 0.18 U | < 0.20 U | < 0.18 U | < 0.19 U | **0.18 J** | < 0.21 U | < 0.19 U | < 0.20 U | < 0.20 U | < 0.21 U |
| Sodium (Na) | **320** | **65** | **67** | **120** | **47** | **54** | **74** | **210** | **100** | **160** | **95** | **100** |
| Thallium | 0.414 | **0.076 J** | **0.073 J** | **0.16** | **0.052 J** | **0.081 J** | **0.14 J** | **0.41** | **0.11 J** | **0.15 J** | **0.082 J** | **0.13 J** |
| Vanadium | **46.28** | **17** | **18** | **29** | **11** | **18** | **22** | **51** | **24** | **29** | **18** | **21** |
| Zinc | 2200 | **11** | **13** | **24** | **7.1** | **13** | **12** | **50** | **19** | **41** | **15** | **16** |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1221 | 0.2 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1232 | 0.17 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1242 | 0.23 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1248 | 0.23 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1254 | 0.12 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1260 | 0.24 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1262 | 0.24 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |
| Aroclor 1268 | 0.24 | < 0.0074 U | < 0.0075 U | < 0.0079 U | < 0.0072 U | < 0.0073 U | < 0.0079 U | < 0.0081 U | < 0.0077 U | < 0.0082 U | < 0.0084 U | < 0.0084 UJ |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Location Group** | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
| | **Location ID** | WDS-SB12 | WDS-SB13 | WDS-SB20 | WDS-SB21 | WDS-SB22 | WDS-SB23 | WDS-SB24 | WDS-SB25 | WDS-SB26 | WDS-SB27 | WDS-SB27 |
| | **Sample Date** | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 |
| | **Depth Interval** | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 3 - 4 ft | 7 - 8 ft | 4 - 5 ft | 7 - 8 ft | 7 - 8 ft |
| | **Sample Type** | N | N | N | N | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 1,2-Dichlorobenzene | 100 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 1,3-Dichlorobenzene | 17 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 1,4-Dichlorobenzene | 2.6 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 1-Methylnaphthalene | 18 | < 0.00075 U | **0.015** | < 0.00080 U | < 0.00072 U | **0.0027** | **0.0024** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| 2,4,5-Trichlorophenol | 630 | < 0.036 U | < 0.037 U | < 0.039 UJ | | | | | | | | |
| 2,4,6-Trichlorophenol | 6.3 | < 0.036 U | < 0.037 U | < 0.039 UJ | | | | | | | | |
| 2,4-Dichlorophenol | 19 | < 0.090 U | < 0.092 U | < 0.098 UJ | | | | | | | | |
| 2,4-Dimethylphenol | 130 | < 0.090 U | < 0.092 U | < 0.098 UJ | | | | | | | | |
| 2,4-Dinitrophenol | 13 | < 0.18 U | < 0.18 U | < 0.20 UJ | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 2-Chloronaphthalene | 480 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 2-Chlorophenol | 39 | < 0.090 U | < 0.092 U | < 0.098 UJ | | | | | | | | |
| 2-Methylnaphthalene | 24 | < 0.00075 U | **0.013** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.0020** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| 2-Methylphenol | 100 | < 0.090 U | < 0.092 U | < 0.098 U | | | | | | | | |
| 2-Nitroaniline | 63 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 2-Nitrophenol | 13 | < 0.090 U | < 0.092 U | < 0.098 UJ | | | | | | | | |
| 3,3-Dichlorobenzidine | 1.2 | < 0.72 UJ | < 0.74 UJ | < 0.78 U | | | | | | | | |
| 3,4-Methylphenol | NE | < 0.090 U | < 0.092 U | < 0.098 U | | | | | | | | |
| 3-Nitroaniline | 63 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 0.090 U | < 0.092 U | < 0.098 UJ | | | | | | | | |
| 4-Bromophenyl-phenylether | NE | < 0.090 U | < 0.092 U | < 0.098 U | | | | | | | | |
| 4-Chloro-3-methylphenol | 630 | < 0.036 U | < 0.037 U | < 0.039 UJ | | | | | | | | |
| 4-Chloroaniline | 2.7 | < 0.090 U | < 0.092 U | < 0.098 U | | | | | | | | |
| 4-Chlorophenyl-phenylether | NE | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| 4-Nitroaniline | 25 | < 0.090 U | < 0.092 U | < 0.098 U | | | | | | | | |
| 4-Nitrophenol | 13 | < 0.36 U | < 0.37 U | < 0.39 UJ | | | | | | | | |
| Acenaphthene | 100 | < 0.00075 U | **0.12** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.012** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Acenaphthylene | 100 | < 0.00075 U | **0.016** | < 0.00080 U | < 0.00072 U | **0.00095** | **0.0012** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Anthracene | 100 | **0.0012** | **0.58** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.036** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Benzo(a)anthracene | **1** | **0.014** | **1.8** | < 0.00080 U | < 0.00072 U | **0.0019** | **0.099** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Benzo(a)pyrene | **0.115** | **0.013** | **1.3** | < 0.00080 U | < 0.00072 U | **0.0013** | **0.060** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Benzo(b)fluoranthene | **1** | **0.030** | **1.9** | < 0.00080 U | < 0.00072 U | **0.0032** | **0.095** | < 0.00082 U | < 0.00078 U | < 0.00082 U | **0.0015 J** | < 0.00084 UJ |
| Benzo(g,h,i)perylene | 100 | **0.0064** | **0.44** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.014** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Benzo(k)fluoranthene | **1** | **0.0041** | **0.54** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.021** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Benzoic acid | 25000 | < 0.36 U | < 0.37 U | < 0.39 UJ | | | | | | | | |
| Benzyl Alcohol | 630 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Bis(2-chloroethoxy)methane | 19 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.23 | < 0.036 U | < 0.037 U | < 0.039 U | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 39 | < 0.036 U | < 0.037 U | < 0.039 U | | | | | | | | |
| Butyl benzyl phthalate | 290 | < 0.036 U | < 0.037 U | < 0.039 U | | | | | | | | |
| CARBAZOLE | 240 | < 0.018 U | **0.42** | < 0.020 U | | | | | | | | |
| Chrysene | **1** | **0.0095** | **1.2** | < 0.00080 U | < 0.00072 U | **0.0015** | **0.050** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Dibenz(a,h)anthracene | **0.115** | **0.0013** | < 0.074 U | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.0047** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |

Notes:
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ft - feet.
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J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
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1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | WDS-SB12 | WDS-SB13 | WDS-SB20 | WDS-SB21 | WDS-SB22 | WDS-SB23 | WDS-SB24 | WDS-SB25 | WDS-SB26 | WDS-SB27 | WDS-SB27 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 3 - 4 ft | 7 - 8 ft | 4 - 5 ft | 7 - 8 ft | 7 - 8 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Dibenzofuran | **7.3** | < 0.018 U | **0.20** | < 0.020 U | | | | | | | | |
| Diethyl phthalate | 5100 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Dimethyl phthalate | 5100 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Di-n-butyl phthalate | 630 | < 0.036 U | < 0.037 U | < 0.039 U | | | | | | | | |
| Di-n-octyl phthalate | 63 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Fluoranthene | 100 | **0.019** | **3.5** | < 0.00080 U | < 0.00072 U | **0.0026** | **0.17** | < 0.00082 U | < 0.00078 U | < 0.00082 U | **0.0012 J** | < 0.00084 UJ |
| Fluorene | 100 | < 0.00075 U | **0.16** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.012** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Hexachlorobenzene | 0.21 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Hexachlorobutadiene | 1.2 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Hexachloroethane | 1.8 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | **0.5** | **0.0054** | **0.54** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.015** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Isophorone | 570 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Naphthalene | 3.8 | < 0.00075 U | **0.015** | < 0.00080 U | < 0.00072 U | **0.00090** | **0.0025** | **0.00094** | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Nitrobenzene | 5.1 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| n-Nitrosodimethylamine | 0.002 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| n-Nitrosodiphenylamine | 110 | < 0.018 U | < 0.018 U | < 0.020 U | | | | | | | | |
| Pentachlorophenol | 1 | < 0.090 U | < 0.092 U | < 0.098 UJ | | | | | | | | |
| Phenanthrene | 100 | **0.0084** | **2.1** | < 0.00080 U | < 0.00072 U | < 0.00075 U | **0.15** | < 0.00082 U | < 0.00078 U | < 0.00082 U | < 0.00085 U | < 0.00084 U |
| Phenol | 100 | < 0.090 U | < 0.092 U | < 0.098 UJ | | | | | | | | |
| Pyrene | 100 | **0.021** | **2.7** | < 0.00080 U | < 0.00072 U | **0.0020** | **0.15** | **0.0010** | < 0.00078 U | < 0.00082 U | **0.0012 J** | < 0.00084 UJ |
| Total BaP PAHs Calculated | **0.115** | **0.0193** | **1.80** | **0.00185** | **0.00166** | **0.00264** | **0.0859** | **0.00190** | **0.00180** | **0.00190** | **0.00203** | **0.00194** |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 UJ | < 0.062 UJ | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 UJ |
| 1,1,1-Trichloroethane | 100 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,1,2,2-Tetrachloroethane | 0.6 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,1,2-Trichloroethane | 0.15 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,1-Dichloroethane | 3.6 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,1-Dichloroethene | 23 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,2,3-Trichloropropane | 0.0051 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,2,4-Trimethylbenzene | 5.8 | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.0020 U | < 0.0022 U | < 0.0017 U | < 0.17 U | < 0.21 U | < 0.44 U | < 0.0015 U | < 0.0019 U | < 0.0019 U | < 0.00098 U | < 0.68 U |
| 1,2-Dibromoethane | 0.036 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,2-Dichloroethane | 0.46 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,2-Dichloropropane | 1 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| 1,3,5-Trimethylbenzene | 47 | | | | | | | | | | | |
| 2-Butanone | 100 | **0.0070 J** | < 0.011 U | **0.0078 J** | < 0.41 U | < 0.51 U | **0.80 J** | **0.0092 J** | < 0.0095 U | < 0.0097 U | < 0.0049 U | < 1.7 U |
| 2-Hexanone | 20 | < 0.0020 U | < 0.0022 U | < 0.0017 U | < 0.083 U | < 0.10 U | < 0.22 U | < 0.0015 U | < 0.0019 U | < 0.0019 U | < 0.00098 U | < 0.34 U |
| 4-Isopropyltoluene | 190 | | | | | | | | | | | |
| Acetone | 100 | < 0.0020 UJ | < 0.0022 UJ | **0.12 J+** | < 0.17 U | **0.21 J** | **1.4** | < 0.0015 UJ | **0.15 J+** | < 0.0019 UJ | < 0.00098 UJ | < 0.68 U |
| Benzene | 1.2 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Bromodichloromethane | 0.29 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 UJ | < 0.062 UJ | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 UJ |
| Bromoform | 19 | < 0.00061 UJ | < 0.00067 UJ | < 0.00050 UJ | < 0.050 UJ | < 0.062 UJ | < 0.13 UJ | < 0.00044 UJ | < 0.00057 UJ | < 0.00058 UJ | < 0.00029 U | < 0.20 UJ |
| Carbon disulfide | 77 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | **0.0052** | < 0.00057 U | < 0.00058 U | **0.00030 J** | < 0.20 U |
| Carbon tetrachloride | 0.65 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 8**
**Preliminary Screening of Subsurface Soil Results at AOCs without Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS | CH-AOC-WDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | WDS-SB12 | WDS-SB13 | WDS-SB20 | WDS-SB21 | WDS-SB22 | WDS-SB23 | WDS-SB24 | WDS-SB25 | WDS-SB26 | WDS-SB27 | WDS-SB27 |
| | Sample Date | 6/13/2016 | 6/13/2016 | 6/15/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 | 6/7/2016 |
| | Depth Interval | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 4 - 5 ft | 4 - 5 ft | 4 - 5 ft | 3 - 4 ft | 7 - 8 ft | 4 - 5 ft | 7 - 8 ft | 7 - 8 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | FD | N |
| Chemical | SubSurface Criteria [1] (mg/kg) | | | | | | | | | | | |
| Chlorobenzene | 28 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Chloroethane | 1400 | < 0.0010 U | < 0.0011 U | < 0.00083 U | < 0.17 U | < 0.21 U | < 0.44 U | < 0.00073 U | < 0.00095 U | < 0.00097 U | < 0.00049 U | < 0.68 U |
| Chloroform | 0.32 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Chloromethane | 11 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| cis-1,2-Dichloroethene | 16 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| cis-1,3-Dichloropropene | NE | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 UJ | < 0.062 UJ | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 UJ |
| Dibromochloromethane | 8.3 | < 0.00061 UJ | < 0.00067 UJ | < 0.00050 U | < 0.050 UJ | < 0.062 UJ | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 UJ |
| Dichlorodifluoromethane | 8.7 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.17 U | < 0.21 U | < 0.44 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.68 U |
| Ethylbenzene | 5.8 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Isopropylbenzene | 190 | | | | | | | | | | | |
| Methyl tert-butyl ether | 47 | | | | | | | | | | | |
| Methylene chloride | 35 | < 0.0020 UJ | < 0.0022 UJ | < 0.0017 U | < 0.083 U | < 0.10 U | < 0.22 U | < 0.0015 U | < 0.0019 U | < 0.0019 U | < 0.00098 U | < 0.34 U |
| Naphthalene | 3.8 | | | | | | | | | | | |
| n-Butylbenzene | 100 | | | | | | | | | | | |
| n-Propylbenzene | 100 | | | | | | | | | | | |
| sec-Butylbenzene | 100 | | | | | | | | | | | |
| Styrene | 600 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 UJ | < 0.062 UJ | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 UJ |
| tert-Butylbenzene | 100 | | | | | | | | | | | |
| Tetrachloroethene | 5.5 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Toluene | 100 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| trans-1,2-Dichloroethene | 100 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| trans-1,3-Dichloropropene | 1.8 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 UJ | < 0.062 UJ | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 UJ |
| Trichloroethene | 0.41 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Trichlorofluoromethane | 2300 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Vinyl Acetate | 91 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Vinyl chloride | 0.059 | < 0.00061 U | < 0.00067 U | < 0.00050 U | < 0.050 U | < 0.062 U | < 0.13 U | < 0.00044 U | < 0.00057 U | < 0.00058 U | < 0.00029 U | < 0.20 U |
| Xylenes (total) | 58 | < 0.0018 U | < 0.0020 U | < 0.0015 U | < 0.15 U | < 0.18 U | < 0.40 U | < 0.0013 U | < 0.0017 U | < 0.0017 U | < 0.00088 U | < 0.61 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 4 for selected subsurface soil criteria without petroleum criteria.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB01 | 203-SB02 | 203-SB03 | 203-SB03 | 203-SB05 | 203-SB06 | 203-SB22 | 203-SB23 | 203-SB24 | 203-SB25 | 203-SB26 | 203-SB27 | 203-SB28 | 203-SB29 |
| | Sample Date | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 12/15/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 |
| | Depth Interval | 9 - 10 ft | 1 - 2 ft | 3 - 4 ft | 4 - 5 ft | 4 - 5 ft | 7 - 8 ft | 9 - 10 ft | 9 - 10 ft | 9 - 10 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 8 - 9 ft | 8 - 9 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | | | | |
| Nitrobenzene | 3.7 | | | | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocin | 390 | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | **27822** | 6600 | 12000 | 9100 | 8900 | 12000 | 6570 | 20400 | 12800 | **33500** | 12200 | 9990 | 9750 | 10200 | 11400 |
| Antimony | 10.3 | 2.6 | 3.4 | 3.4 | 3.5 | 3.5 | < 0.214 U | < 0.210 U | < 0.172 U | < 0.211 U | < 0.159 U | < 0.155 U | < 0.180 U | < 0.201 U | < 0.172 U |
| Arsenic | **3.383** | 2.0 | 2.3 | 1.6 | 1.4 | 2.8 | 1.94 | **4.94** | **3.82** | **9.29** | 2.97 | 2.11 | 2.04 | 1.73 | 2.88 |
| Barium | 350 | 32 | 41 | 47 | 59 | 34 | 41.3 | 151 | 58.5 | 320 | 65.2 | 46.9 | 47.4 | 77.4 | 49.2 |
| Beryllium | 14 | 0.051 J | 0.15 J | 0.060 J | 0.14 J | 0.11 J | 0.308 | 0.751 | 0.499 | 1.50 | 0.480 | 0.488 | 0.427 | 0.384 | 0.494 |
| Cadmium | 2.5 | < 0.035 U | < 0.034 U | < 0.034 U | 0.031 J | < 0.038 U | < 0.107 U | < 0.105 U | < 0.0859 U | 0.0911 J | 0.0327 J | < 0.0775 U | < 0.0899 U | < 0.100 U | < 0.0858 U |
| Calcium (Ca) | **751.8** | 560 | 550 | 490 | 370 | 730 | 521 | **1560** | 536 | **3210** | **8870** | **752** | 381 | 647 | 532 |
| Chromium | **33.92** | 9.5 | 14 | 12 | **220** | 15 | 10.3 | **35.3** | 19.1 | **67.0** | 19.2 | 15.3 | 14.7 | 17.2 | 16.9 |
| Chromium(III), Insoluble Salts | **36** | | | | | | 10.3 | 35.3 | 19.1 | **67.0** | 18.5 | 15.3 | 14.7 | 17.2 | 16.4 |
| Chromium(VI) | **0.3** | | | | | | < 0.44 U | < 0.46 UJ | < 0.44 UJ | < 0.55 UJ | **0.69 J-** | < 0.45 UJ | < 0.45 UJ | < 0.45 UJ | **0.45 J-** |
| Cobalt | **10.24** | 2.7 | 3.4 | 3.5 | 3.4 | 3.7 | 2.76 | **10.9** | 6.47 | **23.3** | 5.75 | 4.07 | 4.65 | 5.71 | 5.14 |
| Copper | 270 | 27 | 37 | 31 | 34 | 31 | 5.80 | 22.1 | 11.8 | 48.5 | 12.4 | 9.80 | 9.23 | 5.13 | 10.4 |
| Iron (Fe) | **19000** | 11000 | 14000 | 13000 | 15000 | 12000 | 8660 | **24000** | 15100 | **54300** | 14700 | 13000 | 11400 | 15400 | 13500 |
| Lead | 400 | 1.7 J | 2.3 J | 1.8 J | 3.0 J | 4.0 | 3.30 | 6.62 | 4.63 | 14.8 | 5.14 | 4.27 | 3.42 | 3.48 | 5.31 |
| Magnesium (Mg) | **8315** | 1500 | 2900 | 2200 | 2000 | 2200 | 1610 | 7580 | 3610 | **15200** | 3900 | 2920 | 2700 | 4370 | 3110 |
| Manganese (Mn) | **656.8** | 210 | 170 | 240 | 390 | 110 | 134 | 400 | 244 | **832** | 218 | 201 | 145 | 290 | 223 |
| Mercury | 0.81 | | | | | | < 0.0179 U | < 0.0178 U | < 0.0174 U | < 0.0208 U | < 0.0185 U | < 0.0174 U | < 0.0169 U | < 0.0186 U | < 0.0170 U |
| Nickel | 140 | 5.4 | 8.3 | 6.5 | 5.4 | 8.8 | 5.70 | 26.4 | 11.7 | 53.8 | 12.6 | 9.12 | 8.88 | 12.7 | 10.4 |
| Potassium (K) | NE | 1100 | 1900 | 1400 | 1500 | 1200 | 1250 | 5730 | 2560 | 12400 | 2560 | 2040 | 1780 | 4690 | 1940 |
| Selenium | 36 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.1 U | < 0.214 U | < 0.210 U | < 0.172 U | < 0.211 U | 0.0924 J | < 0.155 U | < 0.180 U | < 0.201 U | 0.0946 J |
| Silver | 36 | < 0.17 U | < 0.17 U | < 0.17 U | < 0.17 U | < 0.19 U | < 0.0535 U | < 0.0526 U | < 0.0429 U | 0.0275 J | < 0.0397 U | < 0.0388 U | < 0.0449 U | < 0.0502 U | < 0.0429 U |
| Sodium (Na) | **320** | 100 | 87 | 89 | 80 | 81 | 83.5 J | 284 | 120 | **621** | 138 | 95.7 | 88.9 | 87.9 | 102 |
| Thallium | **0.414** | 0.13 J | 0.12 J | 0.17 | 0.11 J | 0.16 | 0.117 J | 0.330 | 0.169 J | **0.698** | 0.194 | 0.172 | 0.126 J | 0.275 | 0.156 J |
| Vanadium | **46.28** | 16 | 22 | 17 | 18 | 23 | 17.1 | **49.4** | 28.6 | **96.0** | 28.7 | 24.4 | 22.0 | 23.4 | 25.3 |
| Zinc | 2200 | 12 | 19 | 16 | 16 | 20 | 16.0 | 59.2 | 31.2 | 117 | 30.4 | 24.8 | 22.3 | 31.1 | 27.9 |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum criteria included.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB01 | 203-SB02 | 203-SB03 | 203-SB03 | 203-SB05 | 203-SB06 | 203-SB22 | 203-SB23 | 203-SB24 | 203-SB25 | 203-SB26 | 203-SB27 | 203-SB28 | 203-SB29 |
| | Sample Date | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 12/15/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 |
| | Depth Interval | 9 - 10 ft | 1 - 2 ft | 3 - 4 ft | 4 - 5 ft | 4 - 5 ft | 7 - 8 ft | 9 - 10 ft | 9 - 10 ft | 9 - 10 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 8 - 9 ft | 8 - 9 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1221 | 0.2 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1232 | 0.17 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1242 | 0.23 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1248 | 0.23 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1254 | 0.12 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1260 | 0.24 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1262 | 0.24 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| Aroclor 1268 | 0.24 | < 0.0072 U | < 0.0073 U | < 0.0070 U | < 0.0071 U | < 0.0076 U | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 1,2-Dichlorobenzene | 100 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 1,3-Dichlorobenzene | 17 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 1,4-Dichlorobenzene | 2.6 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 1-Methylnaphthalene | **18** | 0.0039 | 0.0095 | 0.015 | 0.0078 | 0.0090 | **51** | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.00082 J | 0.0021 | 2.5 | 5.5 | 0.19 |
| 2,4,5-Trichlorophenol | 100 | < 0.036 U | < 0.036 UJ | < 0.035 U | < 0.035 U | < 0.038 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2,4,6-Trichlorophenol | 6.3 | < 0.036 U | < 0.036 UJ | < 0.035 U | < 0.035 U | < 0.038 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2,4-Dichlorophenol | 19 | < 0.090 U | < 0.090 UJ | < 0.088 U | < 0.089 U | < 0.095 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2,4-Dimethylphenol | 130 | < 0.090 U | < 0.090 UJ | < 0.088 U | < 0.089 U | < 0.095 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2,4-Dinitrophenol | 13 | < 0.18 UJ | < 0.18 UJ | < 0.18 UJ | < 0.18 UJ | < 0.19 UJ | < 11 U | < 1.2 U | < 1.1 U | < 1.3 U | < 1.2 U | < 1.1 U | < 1.1 U | < 1.1 U | < 1.1 U |
| 2,4-Dinitrotoluene | 1.7 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 1.8 U | < 0.19 U | < 0.18 U | < 0.22 U | < 0.19 U | < 0.18 U | < 0.18 U | < 0.18 U | < 0.18 U |
| 2,6-Dinitrotoluene | 0.36 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2-Chloronaphthalene | 480 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.15 U | < 0.015 U | < 0.015 U | < 0.018 U | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U |
| 2-Chlorophenol | 39 | < 0.090 U | < 0.090 UJ | < 0.088 U | < 0.089 U | < 0.095 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2-Methylnaphthalene | **0.41** | 0.0043 | 0.010 | 0.016 | 0.0084 | 0.0046 | **76** | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0011 J | 0.0028 | **3.7** | **7.7** | 0.082 |
| 2-Methylphenol | 100 | < 0.090 U | < 0.090 U | < 0.088 U | < 0.089 U | < 0.095 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2-Nitroaniline | 63 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 2-Nitrophenol | 13 | < 0.090 U | < 0.090 UJ | < 0.088 U | < 0.089 U | < 0.095 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 3 or 4-Methylphenol | NE | | | | | | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 3,3-Dichlorobenzidine | 1.2 | < 0.72 UJ | < 0.72 UJ | < 0.70 UJ | < 0.71 UJ | < 0.76 UJ | < 3.6 U | < 0.39 U | < 0.36 U | < 0.45 U | < 0.39 U | < 0.37 U | < 0.36 U | < 0.37 U | < 0.36 U |
| 3,4-Methylphenol | NE | < 0.090 U | < 0.090 U | < 0.088 U | < 0.089 U | < 0.095 U | | | | | | | | | |
| 3-Nitroaniline | 63 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 0.090 U | < 0.090 UJ | < 0.088 U | < 0.089 U | < 0.095 U | < 5.5 U | < 0.58 U | < 0.55 U | < 0.67 U | < 0.58 U | < 0.55 U | < 0.55 U | < 0.55 U | < 0.55 U |
| 4-Bromophenyl-phenylether | NE | < 0.090 U | < 0.090 U | < 0.088 U | < 0.089 U | < 0.095 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 4-Chloro-3-methylphenol | 630 | < 0.036 U | < 0.036 UJ | < 0.035 U | < 0.035 U | < 0.038 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 4-Chloroaniline | 2.7 | < 0.090 U | < 0.090 U | < 0.088 U | < 0.089 U | < 0.095 U | < 0.73 U | < 0.077 U | < 0.073 U | < 0.089 U | < 0.077 U | < 0.074 U | < 0.073 U | < 0.074 U | < 0.073 U |
| 4-Chlorophenyl-phenylether | NE | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| 4-Nitroaniline | 25 | < 0.090 U | < 0.090 U | < 0.088 U | < 0.089 U | < 0.095 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| 4-Nitrophenol | 13 | < 0.36 U | < 0.36 UJ | < 0.35 U | < 0.35 U | < 0.38 U | < 5.5 U | < 0.58 U | < 0.55 U | < 0.67 U | < 0.58 U | < 0.55 U | < 0.55 U | < 0.55 U | < 0.55 U |
| Acenaphthene | 20 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.00080 | 3.2 | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0019 J | 0.023 | 0.20 | 0.43 | 0.13 |
| Acenaphthylene | 100 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.00078 | < 0.15 U | < 0.0015 U | < 0.0015 U | < 0.0018 U | < 0.0015 U | 0.00083 J | < 0.015 U | < 0.015 U | 0.022 |
| Acetophenone | 780 | | | | | | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum criteria included.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB01 | 203-SB02 | 203-SB03 | 203-SB03 | 203-SB05 | 203-SB06 | 203-SB22 | 203-SB23 | 203-SB24 | 203-SB25 | 203-SB26 | 203-SB27 | 203-SB28 | 203-SB29 |
| | Sample Date | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 12/15/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 |
| | Depth Interval | 9 - 10 ft | 1 - 2 ft | 3 - 4 ft | 4 - 5 ft | 4 - 5 ft | 7 - 8 ft | 9 - 10 ft | 9 - 10 ft | 9 - 10 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 8 - 9 ft | 8 - 9 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Anthracene | 100 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.0016 | 2.2 | < 0.0015 U | 0.00047 J | < 0.0018 U | 0.0023 | 0.032 | 0.10 | 0.36 | 0.087 |
| Atrazine | 2.4 | | | | | | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Benzaldehyde | 170 | | | | | | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Benzo(a)anthracene | 1 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.0074 | 0.93 | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0043 | 0.023 | 0.006 J | 0.23 | 0.075 |
| Benzo(a)pyrene | **0.115** | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.0068 | **0.69** | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0039 | 0.014 | < 0.015 U | **0.14** | 0.058 |
| Benzo(b)fluoranthene | 1 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.012 | 0.95 | < 0.0015 U | < 0.0015 U | 0.0026 | 0.0057 | 0.022 | < 0.015 U | 0.19 | 0.088 |
| Benzo(g,h,i)perylene | 100 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.0029 | 0.29 | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0011 J | 0.0027 | < 0.015 U | 0.059 | 0.014 |
| Benzo(k)fluoranthene | 0.8 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.0047 | 0.41 | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0027 | 0.010 | < 0.015 U | 0.091 | 0.042 |
| Benzoic acid | 100 | < 0.36 UJ | < 0.36 UJ | < 0.35 UJ | < 0.35 UJ | 0.50 J | < 5.5 U | < 0.58 U | < 0.55 U | < 0.67 U | < 0.58 U | < 0.55 U | < 0.55 U | < 0.55 U | < 0.55 U |
| Benzyl Alcohol | 630 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 5.5 U | < 0.58 U | < 0.55 U | < 0.67 U | < 0.58 U | < 0.55 U | < 0.55 U | < 0.55 U | < 0.55 U |
| Biphenyl, 1,1'- | **4.7** | | | | | | **8.5** | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | 0.62 | 0.90 | 0.028 J |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| Bis(2-chloroethoxy)methane | 19 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| Bis(2-chloroethyl)ether | 0.23 | < 0.036 U | < 0.036 U | < 0.035 U | < 0.035 U | < 0.038 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| Bis(2-ethylhexyl)phthalate | 39 | < 0.036 U | < 0.036 U | < 0.035 U | < 0.035 U | < 0.038 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | 0.13 J |
| Butyl benzyl phthalate | 100 | < 0.036 U | < 0.036 U | < 0.035 U | < 0.035 U | < 0.038 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Caprolactam | 3100 | | | | | | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| CARBAZOLE | 240 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | 0.96 | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | 0.067 | < 0.036 U |
| Chrysene | 1 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.0080 | 0.89 | 0.00074 J | 0.00052 J | 0.0032 | 0.0040 | 0.025 | 0.006 J | 0.20 | 0.070 |
| Dibenz(a,h)anthracene | 0.115 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.00095 | 0.053 J | < 0.0015 U | < 0.0015 U | < 0.0018 U | < 0.0015 U | 0.0012 J | < 0.015 U | 0.021 | 0.0058 |
| Dibenzofuran | 7.3 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | 3.3 | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | 0.21 | 0.39 | < 0.036 U |
| Diethyl phthalate | 100 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Dimethyl phthalate | 100 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Di-n-butyl phthalate | 100 | < 0.036 U | < 0.036 U | < 0.035 U | < 0.035 U | < 0.038 U | < 1.5 U | < 0.15 U | < 0.15 U | 0.17 J | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Di-n-octyl phthalate | 63 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Fluoranthene | 100 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.018 | 2.8 | 0.0016 J | 0.0020 | 0.0011 J | 0.013 | 0.10 | < 0.015 U | 0.68 | 0.28 |
| Fluorene | 30 | < 0.0022 U | 0.0033 | 0.0030 | < 0.0021 U | 0.00090 | 6.5 | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0023 | 0.027 | 0.52 | 0.71 | 0.17 |
| Hexachlorobenzene | 0.21 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.15 U | < 0.015 U | < 0.015 U | < 0.018 U | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U |
| Hexachlorobutadiene | 1.2 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| hexachlorocyclopentadiene | 0.18 | | | | | | < 5.5 U | < 0.58 U | < 0.55 U | < 0.67 U | < 0.58 U | < 0.55 U | < 0.55 U | < 0.55 U | < 0.55 U |
| Hexachloroethane | 1.8 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Indeno(1,2,3-cd)pyrene | 0.5 | < 0.0022 U | < 0.0022 U | < 0.0021 U | < 0.0021 U | 0.0031 | 0.28 | < 0.0015 U | < 0.0015 U | < 0.0018 U | 0.0011 J | 0.0031 | < 0.015 U | 0.059 | 0.015 |
| Isophorone | 100 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| Naphthalene | **3.8** | < 0.0022 U | 0.0026 | 0.0035 | < 0.0021 U | 0.0043 | **20** | < 0.0015 U | < 0.0015 U | < 0.0018 U | < 0.0015 U | 0.0018 J | 0.27 | 1.5 | < 0.0015 U |
| Nitrobenzene | 3.7 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| n-Nitrosodimethylamine | 0.002 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 1.8 U | < 0.19 U | < 0.18 U | < 0.22 U | < 0.19 U | < 0.18 U | < 0.18 U | < 0.18 U | < 0.18 U |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| n-Nitrosodiphenylamine | 110 | < 0.018 U | < 0.018 U | < 0.018 U | < 0.018 U | < 0.019 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| Pentachlorophenol | 1 | < 0.090 UJ | < 0.090 UJ | < 0.088 UJ | < 0.089 UJ | < 0.095 UJ | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Phenanthrene | 100 | < 0.0022 U | 0.0051 | 0.0021 | 0.0032 | 0.0089 | 15 | 0.0019 J | 0.0024 | 0.0019 J | 0.013 | 0.15 | 0.99 | 2.1 | 0.58 |
| Phenol | 100 | < 0.090 U | < 0.090 UJ | < 0.088 U | < 0.089 U | < 0.095 U | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| Pyrene | 100 | < 0.0022 U | 0.0022 | < 0.0021 U | < 0.0021 U | 0.014 | 2.7 | 0.0011 J | 0.0014 J | 0.00066 J | 0.0092 | 0.072 | 0.047 | 0.54 | 0.22 |
| Tetrachlorobenzene, 1,2,4,5- | 2.3 | | | | | | < 0.36 U | < 0.039 U | < 0.036 U | < 0.045 U | < 0.039 U | < 0.037 U | < 0.036 U | < 0.037 U | < 0.036 U |
| Tetrachlorophenol, 2,3,4,6- | 190 | | | | | | < 1.5 U | < 0.15 U | < 0.15 U | < 0.18 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U |
| Total BaP PAHs Calculated | **0.115** | 0.00508 | 0.00508 | 0.00485 | 0.00485 | 0.0101 | **4.2** | 0.00074 | 0.00052 | 0.0058 | 0.022 | 0.098 | 0.012 | **0.93** | **0.35** |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum criteria included.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB01 | 203-SB02 | 203-SB03 | 203-SB03 | 203-SB05 | 203-SB06 | 203-SB22 | 203-SB23 | 203-SB24 | 203-SB25 | 203-SB26 | 203-SB27 | 203-SB28 | 203-SB29 |
| | Sample Date | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 12/15/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 |
| | Depth Interval | 9 - 10 ft | 1 - 2 ft | 3 - 4 ft | 4 - 5 ft | 4 - 5 ft | 7 - 8 ft | 9 - 10 ft | 9 - 10 ft | 9 - 10 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 8 - 9 ft | 8 - 9 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,1,1-Trichloroethane | 100 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,1,2,2-Tetrachloroethane | 0.6 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 11 | 100 | | | | | | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| 1,1,2-Trichloroethane | 0.15 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,1-Dichloroethane | 3.6 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,1-Dichloroethene | 23 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,2,3-Trichlorobenzene | 6.3 | | | | | | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,2,3-Trichloropropane | 0.0051 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,2,4-Trimethylbenzene | 3.6 | | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.0019 UJ | < 0.0019 U | < 0.0019 UJ | < 0.0020 UJ | < 0.0020 UJ | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| 1,2-Dibromoethane | 0.036 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,2-Dichloroethane | 0.46 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,2-Dichloropropane | 1 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| 1,3,5-Trimethylbenzene | 8.4 | | | | | | | | | | | | | | |
| 1,4-Dioxane | 5.3 | | | | | | < 81 U | < 0.21 U | < 0.15 U | < 0.21 U | < 0.19 U | < 0.16 U | < 8.1 U | < 7.8 U | < 0.15 U |
| 2-Butanone | 100 | < 0.0094 UJ | < 0.0096 UJ | < 0.0093 UJ | < 0.010 UJ | < 0.010 UJ | < 3.2 U | < 0.008 U | < 0.006 U | < 0.009 U | < 0.008 U | < 0.006 U | < 0.32 U | < 0.31 U | < 0.006 U |
| 2-Hexanone | 20 | < 0.0019 U | < 0.0019 U | < 0.0019 U | < 0.0020 U | < 0.0020 U | < 3.2 U | < 0.008 U | < 0.006 U | < 0.009 U | < 0.008 U | < 0.006 U | < 0.32 U | < 0.31 U | < 0.006 U |
| 4-Isopropyltoluene | 10 | | | | | | | | | | | | | | |
| 4-Methyl-2-pentanone | 3300 | | | | | | < 3.2 U | < 0.008 U | < 0.006 U | < 0.009 U | < 0.008 U | < 0.006 U | < 0.32 U | < 0.31 U | < 0.006 U |
| Acetone | 100 | < 0.0019 UJ | 0.075 | 0.0058 J | < 0.0020 UJ | 0.045 J- | < 6.4 U | < 0.017 U | 0.007 J | < 0.017 U | < 0.015 U | 0.006 J | < 0.64 U | < 0.62 U | 0.008 J |
| Benzene | 0.06 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Bromochloromethane | 15 | | | | | | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Bromodichloromethane | 0.29 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Bromoform | 19 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Bromomethane | 0.68 | | | | | | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| Carbon disulfide | 77 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | 0.001 J |
| Carbon tetrachloride | 0.65 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Chlorobenzene | 28 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Chloroethane | 1400 | < 0.00094 U | < 0.00096 U | < 0.00093 U | < 0.0010 U | < 0.0010 U | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| Chloroform | 0.32 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Chloromethane | 11 | < 0.00056 UJ | < 0.00058 U | < 0.00056 UJ | < 0.00061 UJ | < 0.00061 UJ | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| cis-1,2-Dichloroethene | 16 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| cis-1,3-Dichloropropene | NE | < 0.00056 U | < 0.00058 UJ | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| cyclohexane | 650 | | | | | | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Dibromochloromethane | 8.3 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Dichlorodifluoromethane | 8.7 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| Ethylbenzene | **1** | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | **1.8 J** | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | 0.22 | < 0.002 U |
| Isopropylbenzene | 2.3 | | | | | | 1.7 J | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | 0.79 | < 0.002 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum criteria included.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB01 | 203-SB02 | 203-SB03 | 203-SB03 | 203-SB05 | 203-SB06 | 203-SB22 | 203-SB23 | 203-SB24 | 203-SB25 | 203-SB26 | 203-SB27 | 203-SB28 | 203-SB29 |
| | Sample Date | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 6/16/2016 | 12/15/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/12/2016 |
| | Depth Interval | 9 - 10 ft | 1 - 2 ft | 3 - 4 ft | 4 - 5 ft | 4 - 5 ft | 7 - 8 ft | 9 - 10 ft | 9 - 10 ft | 9 - 10 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 8 - 9 ft | 8 - 9 ft |
| | Sample Type | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| m,p-Xylene | NE | | | | | | 0.85 J | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | 0.17 J | < 0.002 U |
| Methyl tert-butyl ether | 0.93 | | | | | | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Methylacetate | 7800 | | | | | | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| methylcyclohexane | NE | | | | | | 2.4 | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | 0.17 J | < 0.002 U |
| Methylene chloride | 35 | < 0.0019 U | < 0.0019 U | < 0.0019 U | < 0.0020 U | < 0.0020 U | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| Naphthalene | 3.8 | | | | | | | | | | | | | | |
| n-Butylbenzene | 12 | | | | | | | | | | | | | | |
| n-Propylbenzene | 3.9 | | | | | | | | | | | | | | |
| o-Xylene | 65 | | | | | | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| sec-Butylbenzene | 11 | | | | | | | | | | | | | | |
| Styrene | 600 | < 0.00056 U | < 0.00058 UJ | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| tert-Butylbenzene | 5.9 | | | | | | | | | | | | | | |
| Tetrachloroethene | 5.5 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Toluene | 0.7 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| trans-1,2-Dichloroethene | 100 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| trans-1,3-Dichloropropene | 1.8 | < 0.00056 U | < 0.00058 UJ | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Trichloroethene | 0.41 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Trichlorofluoromethane | 2300 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| Vinyl Acetate | 91 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 1.6 U | < 0.004 U | < 0.003 U | < 0.004 U | < 0.004 U | < 0.003 U | < 0.16 U | < 0.16 U | < 0.003 U |
| Vinyl chloride | 0.059 | < 0.00056 U | < 0.00058 U | < 0.00056 U | < 0.00061 U | < 0.00061 U | < 0.81 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | < 0.078 U | < 0.002 U |
| Xylenes (total) | **0.26** | < 0.0017 U | < 0.0017 U | < 0.0017 U | < 0.0018 U | < 0.0018 U | **0.85 J** | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.081 U | 0.17 J | < 0.002 U |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
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NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum criteria included.
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-FPH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB30 | 203-SB31 | 203-SB32 | 203-SB33 | 203-SB34 | AST35-SB01 | AST35-SB01 | AST35-SB01 | AST35-SB02 | AST35-SB02 | AST35-SB03 | AST35-SB04 | AST35-SB04 | FPH-SB02 |
| | Sample Date | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/8/2016 | 12/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 |
| | Depth Interval | 9 - 10 ft | 9 - 10 ft | 8 - 9 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 1 - 2 ft | 2 - 3 ft | 1 - 2 ft | 2 - 3 ft | 3 - 4 ft | 1 - 2 ft |
| | Sample Type | N | N | N | N | N | FD | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | | | | | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | | | | | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | | | | | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | | | | | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | | | | | | | | | |
| 4-Nitrotoluene | 25 | | | | | | | | | | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | | | | | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | | | | | | | | | |
| Nitrobenzene | 3.7 | | | | | | | | | | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocin | 390 | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | **27822** | 8930 | 13500 | 12300 | 13300 | 11100 | | | | | | | | | |
| Antimony | 10.3 | < 0.180 U | < 0.164 U | < 0.149 U | < 0.182 U | < 0.180 U | | | | | | | | | |
| Arsenic | **3.383** | **3.45** | 3.02 | 2.98 | **3.40** | 2.71 | | | | | | | | | |
| Barium | 350 | 54.0 | 81.7 | 58.3 | 55.5 | 58.9 | | | | | | | | | |
| Beryllium | 14 | 0.375 | 0.581 | 0.536 | 0.517 | 0.478 | | | | | | | | | |
| Cadmium | 2.5 | < 0.0900 U | 0.0375 J | 0.0290 J | < 0.0910 U | < 0.0900 U | | | | | | | | | |
| Calcium (Ca) | **751.8** | 471 | **1100** | 413 | **6920** | 701 | | | | | | | | | |
| Chromium | **33.92** | 13.9 | 21.8 | 16.3 | 20.5 | 16.1 | | | | | | | | | |
| Chromium(III), Insoluble Salts | **36** | 13.5 | 21.8 | 15.9 | 20.1 | 15.4 | | | | | | | | | |
| Chromium(VI) | **0.3** | **0.40 J** | < 0.46 UJ | **0.40 J** | **0.39 J** | **0.61** | | | | | | | | | |
| Cobalt | **10.24** | 3.90 | 6.59 | 5.57 | 6.58 | 7.11 | | | | | | | | | |
| Copper | 270 | 9.08 | 12.9 | 10.4 | 10.1 | 9.86 | | | | | | | | | |
| Iron (Fe) | **19000** | 13000 | 16700 | 13400 | 17000 | 12300 | | | | | | | | | |
| Lead | 400 | 3.64 | 4.79 | 4.33 | 5.26 | 4.11 | | | | | | | | | |
| Magnesium (Mg) | **8315** | 2620 | 4520 | 3160 | 3830 | 2920 | | | | | | | | | |
| Manganese (Mn) | **656.8** | 179 | 258 | 161 | 322 | 163 | | | | | | | | | |
| Mercury | 0.81 | < 0.0170 U | < 0.0176 U | < 0.0173 U | < 0.0179 U | < 0.0174 U | | | | | | | | | |
| Nickel | 140 | 8.12 | 14.6 | 10.9 | 12.0 | 10.2 | | | | | | | | | |
| Potassium (K) | NE | 1860 | 3030 | 2290 | 2380 | 2040 | | | | | | | | | |
| Selenium | 36 | < 0.180 U | < 0.164 U | 0.109 J | 0.112 J | 0.109 J | | | | | | | | | |
| Silver | 36 | < 0.0450 U | < 0.0409 U | < 0.0372 U | < 0.0455 U | < 0.0450 U | | | | | | | | | |
| Sodium (Na) | **320** | 89.0 | 143 | 89.2 | 176 | 91.8 | | | | | | | | | |
| Thallium | **0.414** | 0.317 | 0.254 | 0.170 | 0.173 J | 0.181 | | | | | | | | | |
| Vanadium | **46.28** | 22.4 | 33.2 | 27.2 | 31.5 | 24.8 | | | | | | | | | |
| Zinc | 2200 | 20.5 | 34.4 | 23.8 | 26.7 | 21.4 | | | | | | | | | |

Notes:
All units are in milligrams per kilogram (mg/kg).
< - Result not detected above laboratory reporting limit.
FD - Field duplicate.
ft - feet.
J - Estimated value.
J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
J+ - The chemical was positively identified; however, the associated numerical value is a high estimated concentration.
N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum cr
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-FPH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB30 | 203-SB31 | 203-SB32 | 203-SB33 | 203-SB34 | AST35-SB01 | AST35-SB01 | AST35-SB01 | AST35-SB02 | AST35-SB02 | AST35-SB03 | AST35-SB04 | AST35-SB04 | FPH-SB02 |
| | Sample Date | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/8/2016 | 12/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 |
| | Depth Interval | 9 - 10 ft | 9 - 10 ft | 8 - 9 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 1 - 2 ft | 2 - 3 ft | 1 - 2 ft | 2 - 3 ft | 3 - 4 ft | 1 - 2 ft |
| | Sample Type | N | N | N | N | N | FD | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | | | | | | | | | | | | | | |
| Aroclor 1221 | 0.2 | | | | | | | | | | | | | | |
| Aroclor 1232 | 0.17 | | | | | | | | | | | | | | |
| Aroclor 1242 | 0.23 | | | | | | | | | | | | | | |
| Aroclor 1248 | 0.23 | | | | | | | | | | | | | | |
| Aroclor 1254 | 0.12 | | | | | | | | | | | | | | |
| Aroclor 1260 | 0.24 | | | | | | | | | | | | | | |
| Aroclor 1262 | 0.24 | | | | | | | | | | | | | | |
| Aroclor 1268 | 0.24 | | | | | | | | | | | | | | |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 1,2-Dichlorobenzene | 100 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 1,3-Dichlorobenzene | 17 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 1,4-Dichlorobenzene | 2.6 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 1-Methylnaphthalene | **18** | 4.2 | < 0.0015 U | < 0.0015 U | 0.0033 | < 0.0015 U | | | | | | | | | |
| 2,4,5-Trichlorophenol | 100 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2,4,6-Trichlorophenol | 6.3 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2,4-Dichlorophenol | 19 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2,4-Dimethylphenol | 130 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2,4-Dinitrophenol | 13 | < 1.1 U | < 1.1 U | < 1.1 U | < 1.1 U | < 1.1 U | | | | | | | | | |
| 2,4-Dinitrotoluene | 1.7 | < 0.18 U | < 0.19 U | < 0.18 U | < 0.18 U | < 0.19 U | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.36 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2-Chloronaphthalene | 480 | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U | | | | | | | | | |
| 2-Chlorophenol | 39 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2-Methylnaphthalene | **0.41** | **6.6** | 0.00090 J | < 0.0015 U | 0.0014 J | 0.00098 J | | | | | | | | | |
| 2-Methylphenol | 100 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2-Nitroaniline | 63 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 2-Nitrophenol | 13 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 3 or 4-Methylphenol | NE | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 3,3-Dichlorobenzidine | 1.2 | < 0.37 U | < 0.37 U | < 0.37 U | < 0.37 U | < 0.37 U | | | | | | | | | |
| 3,4-Methylphenol | NE | | | | | | | | | | | | | | |
| 3-Nitroaniline | 63 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | < 0.55 U | < 0.56 U | < 0.55 U | < 0.55 U | < 0.56 U | | | | | | | | | |
| 4-Bromophenyl-phenylether | NE | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 4-Chloro-3-methylphenol | 630 | < 0.037 U | < 0.037 U | 0.020 J | < 0.037 U | < 0.037 U | | | | | | | | | |
| 4-Chloroaniline | 2.7 | < 0.073 U | < 0.075 U | < 0.073 U | < 0.073 U | < 0.074 U | | | | | | | | | |
| 4-Chlorophenyl-phenylether | NE | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| 4-Nitroaniline | 25 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| 4-Nitrophenol | 13 | < 0.55 U | < 0.56 U | < 0.55 U | < 0.55 U | < 0.56 U | | | | | | | | | |
| Acenaphthene | 20 | 0.29 | < 0.0015 U | < 0.0015 U | < 0.0015 U | < 0.0015 U | 0.00082 J | 0.0017 J | < 0.00074 U | < 0.00074 U | < 0.00074 U | < 0.00078 U | < 0.00075 U | 0.00091 | 0.0014 |
| Acenaphthylene | 100 | < 0.015 U | < 0.0015 U | 0.0037 | < 0.0015 U | < 0.0015 U | < 0.00074 U | < 0.00073 U | < 0.00074 U | < 0.00074 U | < 0.00074 U | < 0.00078 U | < 0.00075 U | < 0.00076 U | < 0.00073 U |
| Acetophenone | 780 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |

Notes:
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J - Estimated value.
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**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-FPH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB30 | 203-SB31 | 203-SB32 | 203-SB33 | 203-SB34 | AST35-SB01 | AST35-SB01 | AST35-SB01 | AST35-SB02 | AST35-SB02 | AST35-SB03 | AST35-SB04 | AST35-SB04 | FPH-SB02 |
| | Sample Date | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/8/2016 | 12/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 |
| | Depth Interval | 9 - 10 ft | 9 - 10 ft | 8 - 9 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 1 - 2 ft | 2 - 3 ft | 1 - 2 ft | 2 - 3 ft | 3 - 4 ft | 1 - 2 ft |
| | Sample Type | N | N | N | N | N | FD | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| Anthracene | 100 | 0.16 | < 0.0015 U | 0.021 | 0.00065 J | < 0.0015 U | 0.00078 J | 0.0027 J | 0.00083 | < 0.00074 U | < 0.00074 U | < 0.00078 U | 0.0010 | < 0.00076 U | 0.00098 |
| Atrazine | 2.4 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Benzaldehyde | 170 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Benzo(a)anthracene | 1 | < 0.015 U | < 0.0015 U | 0.0019 | 0.0016 J | < 0.0015 U | 0.0038 J | 0.010 J | 0.0042 | 0.0024 | 0.0015 | 0.0054 | 0.0071 | 0.0031 | 0.0020 |
| Benzo(a)pyrene | **0.115** | < 0.015 U | < 0.0015 U | < 0.0015 U | 0.0037 | < 0.0015 U | 0.0033 J | 0.0080 J | 0.0021 | 0.0017 | 0.00096 | 0.0038 | 0.0054 | 0.0023 | 0.0015 |
| Benzo(b)fluoranthene | 1 | < 0.015 U | < 0.0015 U | < 0.0015 U | 0.0040 | < 0.0015 U | 0.0058 J | 0.011 J | 0.0057 | 0.0031 | 0.0016 | 0.0066 | 0.0083 | < 0.00076 U | 0.0030 |
| Benzo(g,h,i)perylene | 100 | < 0.015 U | < 0.0015 U | < 0.0015 U | 0.0022 | < 0.0015 U | 0.0027 J | 0.0011 J | < 0.00074 U | 0.0013 | < 0.00074 U | 0.0030 | 0.0041 | 0.0026 | 0.0013 |
| Benzo(k)fluoranthene | 0.8 | < 0.015 U | < 0.0015 U | < 0.0015 U | 0.0012 J | < 0.0015 U | 0.0017 J | 0.0051 J | 0.0012 | 0.0010 | < 0.00074 U | 0.0016 | 0.0031 | 0.0049 | < 0.00073 U |
| Benzoic acid | 100 | < 0.55 U | < 0.56 U | < 0.55 U | < 0.55 U | < 0.56 U | | | | | | | | | |
| Benzyl Alcohol | 630 | < 0.55 U | < 0.56 U | < 0.55 U | < 0.55 U | < 0.56 U | | | | | | | | | |
| Biphenyl, 1,1'- | **4.7** | 1.3 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Bis(2-chloroethoxy)methane | 19 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.23 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 39 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Butyl benzyl phthalate | 100 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Caprolactam | 3100 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| CARBAZOLE | 240 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Chrysene | 1 | 0.006 J | < 0.0015 U | < 0.0015 U | 0.0022 | < 0.0015 U | 0.0044 J | 0.0096 J | 0.0031 | 0.0016 | 0.00094 | 0.0033 | 0.0050 | 0.0025 | 0.0017 |
| Dibenz(a,h)anthracene | 0.115 | < 0.015 U | < 0.0015 U | < 0.0015 U | < 0.0015 U | < 0.0015 U | < 0.00074 U | < 0.00073 U | < 0.00074 U | < 0.00074 U | < 0.00074 U | < 0.00078 U | < 0.00075 U | 0.0074 | < 0.00073 U |
| Dibenzofuran | 7.3 | 0.37 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Diethyl phthalate | 100 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Dimethyl phthalate | 100 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Di-n-butyl phthalate | 100 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Di-n-octyl phthalate | 63 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Fluoranthene | 100 | 0.020 | < 0.0015 U | 0.0023 | 0.0032 | < 0.0015 U | 0.0091 J | 0.021 J | 0.0070 | 0.0032 | 0.0022 | 0.0077 | 0.011 J- | 0.0061 | 0.0042 |
| Fluorene | 30 | 0.58 | < 0.0015 U | < 0.0015 U | 0.00081 J | < 0.0015 U | 0.00089 J | 0.0018 J | < 0.00074 U | < 0.00074 U | < 0.00074 U | < 0.00078 U | < 0.00075 U | 0.0013 | 0.0024 |
| Hexachlorobenzene | 0.21 | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U | < 0.015 U | | | | | | | | | |
| Hexachlorobutadiene | 1.2 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| hexachlorocyclopentadiene | 0.18 | < 0.55 U | < 0.56 U | < 0.55 U | < 0.55 UJ | < 0.56 U | | | | | | | | | |
| Hexachloroethane | 1.8 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.5 | < 0.015 U | < 0.0015 U | < 0.0015 U | 0.0020 | < 0.0015 U | 0.0027 J | 0.0057 J | < 0.00074 U | 0.0011 | < 0.00074 U | 0.0025 | 0.0035 | 0.0022 | 0.0011 |
| Isophorone | 100 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Naphthalene | **3.8** | 0.75 | 0.0042 | < 0.0015 U | 0.0021 | < 0.0015 U | | | | | | | | | |
| Nitrobenzene | 3.7 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| n-Nitrosodimethylamine | 0.002 | < 0.18 U | < 0.19 U | < 0.18 U | < 0.18 U | < 0.19 U | | | | | | | | | |
| n-Nitroso-di-n-propylamine | 0.078 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| n-Nitrosodiphenylamine | 110 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Pentachlorophenol | 1 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Phenanthrene | 100 | 1.3 | < 0.0015 U | 0.0094 | 0.0030 | 0.0013 J | 0.0058 J | 0.014 J | 0.0062 | 0.0024 | 0.0017 | 0.0055 | 0.0079 | 0.0071 | 0.011 |
| Phenol | 100 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Pyrene | 100 | 0.050 | < 0.0015 U | 0.014 | 0.0025 | < 0.0015 U | 0.0074 J | 0.018 J | 0.0068 | 0.0032 | 0.0022 | 0.0078 | 0.011 J- | 0.0063 | 0.0045 |
| Tetrachlorobenzene, 1,2,4,5- | 2.3 | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | < 0.037 U | | | | | | | | | |
| Tetrachlorophenol, 2,3,4,6- | 190 | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | < 0.15 U | | | | | | | | | |
| Total BaP PAHs Calculated | **0.115** | 0.0060 | < 0.0015 U | 0.0019 | 0.015 | < 0.0015 U | 0.00529 | 0.0115 | 0.00392 | 0.00311 | 0.00209 | 0.00605 | 0.00808 | 0.0104 | 0.00285 |

Notes:
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FD - Field duplicate.
ft - feet.
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SVOC - Semivolatile Organic Compound.
U - Not detected.
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1. See Table 5 for selected subsurface soil screening criteria with petroleum cr
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-FPH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB30 | 203-SB31 | 203-SB32 | 203-SB33 | 203-SB34 | AST35-SB01 | AST35-SB01 | AST35-SB01 | AST35-SB02 | AST35-SB02 | AST35-SB03 | AST35-SB04 | AST35-SB04 | FPH-SB02 |
| | Sample Date | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/8/2016 | 12/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 |
| | Depth Interval | 9 - 10 ft | 9 - 10 ft | 8 - 9 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 1 - 2 ft | 2 - 3 ft | 1 - 2 ft | 2 - 3 ft | 3 - 4 ft | 1 - 2 ft |
| | Sample Type | N | N | N | N | N | FD | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,1,1-Trichloroethane | 100 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.6 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 11 | 100 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| 1,1,2-Trichloroethane | 0.15 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,1-Dichloroethane | 3.6 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,1-Dichloroethene | 23 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,2,3-Trichlorobenzene | 6.3 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,2,3-Trichloropropane | 0.0051 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 3.6 | | | | | | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 UJ | < 0.00055 U | < 0.00056 U |
| 1,2-Dibromo-3-chloropropane | 0.0053 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| 1,2-Dibromoethane | 0.036 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,2-Dichloroethane | 0.46 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,2-Dichloropropane | 1 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 8.4 | | | | | | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| 1,4-Dioxane | 5.3 | < 7.2 U | < 0.16 U | < 0.16 U | < 0.17 U | < 0.15 U | | | | | | | | | |
| 2-Butanone | 100 | < 0.29 U | < 0.006 U | < 0.006 U | < 0.007 U | < 0.006 U | | | | | | | | | |
| 2-Hexanone | 20 | < 0.29 U | < 0.006 U | < 0.006 U | < 0.007 U | < 0.006 U | | | | | | | | | |
| 4-Isopropyltoluene | 10 | | | | | | 0.00034 J | < 0.00056 UJ | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 UJ | < 0.00055 U | < 0.00056 U |
| 4-Methyl-2-pentanone | 3300 | < 0.29 U | < 0.006 U | < 0.006 U | < 0.007 UJ | < 0.006 U | | | | | | | | | |
| Acetone | 100 | < 0.57 U | < 0.012 U | 0.014 J | 0.012 J | 0.006 J | | | | | | | | | |
| Benzene | 0.06 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| Bromochloromethane | 15 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Bromodichloromethane | 0.29 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Bromoform | 19 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Bromomethane | 0.68 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| Carbon disulfide | 77 | < 0.072 U | < 0.002 U | 0.003 J | 0.002 J | < 0.002 U | | | | | | | | | |
| Carbon tetrachloride | 0.65 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Chlorobenzene | 28 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Chloroethane | 1400 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| Chloroform | 0.32 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Chloromethane | 11 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| cis-1,2-Dichloroethene | 16 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| cis-1,3-Dichloropropene | NE | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| cyclohexane | 650 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Dibromochloromethane | 8.3 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Dichlorodifluoromethane | 8.7 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| Ethylbenzene | **1** | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| Isopropylbenzene | 2.3 | 0.042 J | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |

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**SubSurface Criteria exceedances are highlighted and bolded**

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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-203 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-AST35 | CH-AOC-FPH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | 203-SB30 | 203-SB31 | 203-SB32 | 203-SB33 | 203-SB34 | AST35-SB01 | AST35-SB01 | AST35-SB01 | AST35-SB02 | AST35-SB02 | AST35-SB03 | AST35-SB04 | AST35-SB04 | FPH-SB02 |
| | Sample Date | 12/12/2016 | 12/12/2016 | 12/12/2016 | 12/8/2016 | 12/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/12/2016 |
| | Depth Interval | 9 - 10 ft | 9 - 10 ft | 8 - 9 ft | 6 - 7 ft | 9 - 10 ft | 4 - 5 ft | 4 - 5 ft | 5 - 6 ft | 1 - 2 ft | 2 - 3 ft | 1 - 2 ft | 2 - 3 ft | 3 - 4 ft | 1 - 2 ft |
| | Sample Type | N | N | N | N | N | FD | N | N | N | N | N | N | N | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | | | | |
| m,p-Xylene | NE | 0.060 J | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Methyl tert-butyl ether | 0.93 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| Methylacetate | 7800 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| methylcyclohexane | NE | 0.13 J | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Methylene chloride | 35 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| Naphthalene | 3.8 | | | | | | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 UJ | < 0.00055 U | < 0.00056 U |
| n-Butylbenzene | 12 | | | | | | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| n-Propylbenzene | 3.9 | | | | | | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| o-Xylene | 65 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| sec-Butylbenzene | 11 | | | | | | < 0.00081 U | < 0.00093 U | < 0.00089 U | < 0.00085 U | < 0.00088 U | < 0.0010 U | < 0.059 U | < 0.00092 U | < 0.00094 U |
| Styrene | 600 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| tert-Butylbenzene | 5.9 | | | | | | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| Tetrachloroethene | 5.5 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Toluene | 0.7 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.00048 U | < 0.00056 U | < 0.00053 U | < 0.00051 U | < 0.00053 U | < 0.00063 U | < 0.059 U | < 0.00055 U | < 0.00056 U |
| trans-1,2-Dichloroethene | 100 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| trans-1,3-Dichloropropene | 1.8 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Trichloroethene | 0.41 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Trichlorofluoromethane | 2300 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| Vinyl Acetate | 91 | < 0.14 U | < 0.003 U | < 0.003 U | < 0.003 U | < 0.003 U | | | | | | | | | |
| Vinyl chloride | 0.059 | < 0.072 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | | | | | | | | | |
| Xylenes (total) | **0.26** | 0.060 J | < 0.002 U | < 0.002 U | < 0.002 U | < 0.002 U | < 0.0015 U | < 0.0017 U | < 0.0016 U | < 0.0015 U | < 0.0016 U | < 0.0019 U | < 0.18 U | < 0.0017 U | < 0.0017 U |

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**SubSurface Criteria exceedances are highlighted and bolded**

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**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-MP | CH-AOC-MP | CH-AOC-MP | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | FPH-SB03 | FPH-SB04 | FPH-SB04 | MP-SB01 | MP-SB01 | MP-SB03 | STB-SB01 | STB-SB02 | STB-SB03 | STB-SB04 | STB-SB04 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 4 - 5 ft | 3 - 4 ft | 3 - 4 ft | 3 - 4 ft | 8 - 9 ft | 4 - 5 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft |
| | Sample Type | N | N | N | FD | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **Explosives** | | | | | | | | | | | | |
| 1,3,5-Trinitrobenzene | 220 | | | | | | < 0.039 U | | | | | |
| 1,3-Dinitrobenzene | 0.63 | | | | | | < 0.039 U | | | | | |
| 2,4,6-Trinitrotoluene | 3.6 | | | | | | < 0.039 U | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | < 0.039 U | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | < 0.039 U | | | | | |
| 2-Amino-4,6-dinitrotoluene | 15 | | | | | | < 0.039 U | | | | | |
| 2-Nitrotoluene | 3.2 | | | | | | < 0.039 U | | | | | |
| 3-Nitrotoluene | 0.63 | | | | | | < 0.039 U | | | | | |
| 4-Amino-2,6-Dinitro Toluene | 15 | | | | | | < 0.039 U | | | | | |
| 4-Nitrotoluene | 25 | | | | | | < 0.039 U | | | | | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine | 6.1 | | | | | | < 0.039 U | | | | | |
| Methyl-2,4,6-trinitrophenylnitramine | 16 | | | | | | < 0.039 U | | | | | |
| Nitrobenzene | 3.7 | | | | | | < 0.039 U | | | | | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocin | 390 | | | | | | < 0.039 U | | | | | |
| **Metals** | | | | | | | | | | | | |
| Aluminum | **27822** | | | | | | | | | | | |
| Antimony | 10.3 | | | | | | | | | | | |
| Arsenic | **3.383** | | | | | | | | | | | |
| Barium | 350 | | | | | | | | | | | |
| Beryllium | 14 | | | | | | | | | | | |
| Cadmium | 2.5 | | | | | | | | | | | |
| Calcium (Ca) | **751.8** | | | | | | | | | | | |
| Chromium | **33.92** | | | | | | | | | | | |
| Chromium(III), Insoluble Salts | **36** | | | | | | | | | | | |
| Chromium(VI) | **0.3** | | | | | | | | | | | |
| Cobalt | **10.24** | | | | | | | | | | | |
| Copper | 270 | | | | | | | | | | | |
| Iron (Fe) | **19000** | | | | | | | | | | | |
| Lead | 400 | | | | | | | | | | | |
| Magnesium (Mg) | **8315** | | | | | | | | | | | |
| Manganese (Mn) | **656.8** | | | | | | | | | | | |
| Mercury | 0.81 | | | | | | | | | | | |
| Nickel | 140 | | | | | | | | | | | |
| Potassium (K) | NE | | | | | | | | | | | |
| Selenium | 36 | | | | | | | | | | | |
| Silver | 36 | | | | | | | | | | | |
| Sodium (Na) | **320** | | | | | | | | | | | |
| Thallium | **0.414** | | | | | | | | | | | |
| Vanadium | **46.28** | | | | | | | | | | | |
| Zinc | 2200 | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | FPH-SB03 | FPH-SB04 | FPH-SB04 | MP-SB01 | MP-SB01 | MP-SB03 | STB-SB01 | STB-SB02 | STB-SB03 | STB-SB04 | STB-SB04 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 4 - 5 ft | 3 - 4 ft | 3 - 4 ft | 3 - 4 ft | 8 - 9 ft | 4 - 5 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft |
| | Sample Type | N | N | N | FD | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | |
| Aroclor 1016 | 0.41 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1221 | 0.2 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1232 | 0.17 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1242 | 0.23 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1248 | 0.23 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1254 | 0.12 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1260 | 0.24 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1262 | 0.24 | | | | | | < 0.0073 U | | | | | |
| Aroclor 1268 | 0.24 | | | | | | < 0.0073 U | | | | | |
| **SVOCs** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.8 | | | | | | < 0.018 U | | | | | |
| 1,2-Dichlorobenzene | 100 | | | | | | < 0.018 U | | | | | |
| 1,3-Dichlorobenzene | 17 | | | | | | < 0.018 U | | | | | |
| 1,4-Dichlorobenzene | 2.6 | | | | | | < 0.018 U | | | | | |
| 1-Methylnaphthalene | **18** | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 100 | | | | | | < 0.036 U | | | | | |
| 2,4,6-Trichlorophenol | 6.3 | | | | | | < 0.036 U | | | | | |
| 2,4-Dichlorophenol | 19 | | | | | | < 0.090 U | | | | | |
| 2,4-Dimethylphenol | 130 | | | | | | < 0.090 U | | | | | |
| 2,4-Dinitrophenol | 13 | | | | | | < 0.18 U | | | | | |
| 2,4-Dinitrotoluene | 1.7 | | | | | | < 0.018 U | | | | | |
| 2,6-Dinitrotoluene | 0.36 | | | | | | < 0.018 U | | | | | |
| 2-Chloronaphthalene | 480 | | | | | | < 0.018 U | | | | | |
| 2-Chlorophenol | 39 | | | | | | < 0.090 U | | | | | |
| 2-Methylnaphthalene | **0.41** | | | | | | | | | | | |
| 2-Methylphenol | 100 | | | | | | < 0.090 U | | | | | |
| 2-Nitroaniline | 63 | | | | | | < 0.018 U | | | | | |
| 2-Nitrophenol | 13 | | | | | | < 0.090 U | | | | | |
| 3 or 4-Methylphenol | NE | | | | | | | | | | | |
| 3,3-Dichlorobenzidine | 1.2 | | | | | | < 0.72 U | | | | | |
| 3,4-Methylphenol | NE | | | | | | < 0.090 U | | | | | |
| 3-Nitroaniline | 63 | | | | | | < 0.018 U | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.51 | | | | | | < 0.090 U | | | | | |
| 4-Bromophenyl-phenylether | NE | | | | | | < 0.090 U | | | | | |
| 4-Chloro-3-methylphenol | 630 | | | | | | < 0.036 U | | | | | |
| 4-Chloroaniline | 2.7 | | | | | | < 0.090 U | | | | | |
| 4-Chlorophenyl-phenylether | NE | | | | | | < 0.018 U | | | | | |
| 4-Nitroaniline | 25 | | | | | | < 0.090 U | | | | | |
| 4-Nitrophenol | 13 | | | | | | < 0.36 U | | | | | |
| Acenaphthene | 20 | < 0.00077 UJ | < 0.00075 U | < 0.00077 U | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | < 0.00080 U | < 0.00082 U | < 0.00076 UJ | < 0.00077 U |
| Acenaphthylene | 100 | 0.0021 J- | 0.015 | < 0.00077 U | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | < 0.00080 U | < 0.00082 U | < 0.00076 UJ | < 0.00077 U |
| Acetophenone | 780 | | | | | | | | | | | |

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J- - The chemical was positively identified; however, the associated numerical value is a low estimated concentration.
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N - Normal sample.
NE - Not Established.
PAH - Polycyclic Aromatic Hydrocarbon.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
U - Not detected.
UJ - The analyte was not detected; and the reporting limit is approximate.
VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum cr
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-MP | CH-AOC-MP | CH-AOC-MP | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | FPH-SB03 | FPH-SB04 | FPH-SB04 | MP-SB01 | MP-SB01 | MP-SB03 | STB-SB01 | STB-SB02 | STB-SB03 | STB-SB04 | STB-SB04 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 4 - 5 ft | 3 - 4 ft | 3 - 4 ft | 3 - 4 ft | 8 - 9 ft | 4 - 5 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft |
| | Sample Type | N | N | N | FD | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| Anthracene | 100 | 0.11 | 0.050 | 0.036 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | < 0.00080 U | 0.0011 | 0.0023 J | < 0.00077 UJ |
| Atrazine | 2.4 | | | | | | | | | | | |
| Benzaldehyde | 170 | | | | | | | | | | | |
| Benzo(a)anthracene | 1 | 0.010 J- | 0.0040 | 0.019 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0050 J+ | 0.0062 | 0.010 J | 0.0014 J |
| Benzo(a)pyrene | **0.115** | 0.0060 J- | 0.0016 | 0.0085 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0048 J+ | 0.0054 | 0.0067 J | 0.0011 J |
| Benzo(b)fluoranthene | 1 | 0.012 J- | 0.0039 | 0.018 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0083 J+ | 0.010 | 0.010 J | 0.0023 J |
| Benzo(g,h,i)perylene | 100 | 0.0063 J- | < 0.00075 U | 0.0048 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0036 J+ | 0.0026 | 0.0036 J | < 0.00077 UJ |
| Benzo(k)fluoranthene | 0.8 | 0.0020 J- | < 0.00075 U | 0.0064 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0028 J+ | 0.0034 | 0.0029 J | 0.00083 J |
| Benzoic acid | 100 | | | | | | < 0.36 UJ | | | | | |
| Benzyl Alcohol | 630 | | | | | | < 0.018 U | | | | | |
| Biphenyl, 1,1'- | **4.7** | | | | | | | | | | | |
| Bis(2-chloro-1-methylethyl) ether | 310 | | | | | | < 0.018 U | | | | | |
| Bis(2-chloroethoxy)methane | 19 | | | | | | < 0.018 U | | | | | |
| Bis(2-chloroethyl)ether | 0.23 | | | | | | < 0.036 U | | | | | |
| Bis(2-ethylhexyl)phthalate | 39 | | | | | | < 0.036 U | | | | | |
| Butyl benzyl phthalate | 100 | | | | | | < 0.036 U | | | | | |
| Caprolactam | 3100 | | | | | | | | | | | |
| CARBAZOLE | 240 | | | | | | < 0.018 U | | | | | |
| Chrysene | 1 | 0.0061 J- | 0.0036 | 0.013 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0060 J+ | 0.0058 | 0.0085 J | 0.0016 J |
| Dibenz(a,h)anthracene | 0.115 | < 0.00077 UJ | < 0.00075 U | 0.0020 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | < 0.00080 U | < 0.00082 U | < 0.00076 UJ | < 0.00077 U |
| Dibenzofuran | 7.3 | | | | | | < 0.018 U | | | | | |
| Diethyl phthalate | 100 | | | | | | < 0.018 U | | | | | |
| Dimethyl phthalate | 100 | | | | | | < 0.018 U | | | | | |
| Di-n-butyl phthalate | 100 | | | | | | < 0.036 U | | | | | |
| Di-n-octyl phthalate | 63 | | | | | | < 0.018 U | | | | | |
| Fluoranthene | 100 | < 0.00077 UJ | 0.026 | 0.024 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.014 J+ | 0.016 | 0.022 J | 0.0035 J |
| Fluorene | 30 | < 0.00077 UJ | < 0.00075 U | < 0.00077 U | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | < 0.00080 U | 0.00083 | < 0.00076 UJ | < 0.00077 U |
| Hexachlorobenzene | 0.21 | | | | | | < 0.018 U | | | | | |
| Hexachlorobutadiene | 1.2 | | | | | | < 0.018 U | | | | | |
| hexachlorocyclopentadiene | 0.18 | | | | | | | | | | | |
| Hexachloroethane | 1.8 | | | | | | < 0.018 U | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.0053 J- | < 0.00075 U | < 0.00077 U | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0036 J+ | 0.0026 | 0.0036 J | < 0.00077 UJ |
| Isophorone | 100 | | | | | | < 0.018 U | | | | | |
| Naphthalene | **3.8** | | | | | | | | | | | |
| Nitrobenzene | 3.7 | | | | | | < 0.018 U | | | | | |
| n-Nitrosodimethylamine | 0.002 | | | | | | < 0.018 U | | | | | |
| n-Nitroso-di-n-propylamine | 0.078 | | | | | | < 0.018 U | | | | | |
| n-Nitrosodiphenylamine | 110 | | | | | | < 0.018 U | | | | | |
| Pentachlorophenol | 1 | | | | | | < 0.090 U | | | | | |
| Phenanthrene | 100 | 0.030 J- | 0.38 | 0.038 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.0060 J+ | 0.0082 | 0.0083 J | 0.0018 J |
| Phenol | 100 | | | | | | < 0.090 U | | | | | |
| Pyrene | 100 | < 0.00077 UJ | 0.033 | 0.037 | < 0.0025 U | < 0.0025 UJ | < 0.00072 UJ | < 0.00077 U | 0.010 J+ | 0.012 | 0.017 J | 0.0030 J |
| Tetrachlorobenzene, 1,2,4,5- | 2.3 | | | | | | | | | | | |
| Tetrachlorophenol, 2,3,4,6- | 190 | | | | | | | | | | | |
| Total BaP PAHs Calculated | **0.115** | 0.00953 | 0.00323 | 0.0144 | 0.00578 | 0.00578 | 0.00166 | 0.00178 | 0.00732 | 0.00814 | 0.00986 | 0.00233 |

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SVOC - Semivolatile Organic Compound.
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VOC - Volatile Organic Compound.
1. See Table 5 for selected subsurface soil screening criteria with petroleum cr
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-MP | CH-AOC-MP | CH-AOC-MP | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | FPH-SB03 | FPH-SB04 | FPH-SB04 | MP-SB01 | MP-SB01 | MP-SB03 | STB-SB01 | STB-SB02 | STB-SB03 | STB-SB04 | STB-SB04 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 4 - 5 ft | 3 - 4 ft | 3 - 4 ft | 3 - 4 ft | 8 - 9 ft | 4 - 5 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft |
| | Sample Type | N | N | N | FD | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 2 | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 100 | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.6 | | | | | | | | | | | |
| 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 11 | 100 | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 0.15 | | | | | | | | | | | |
| 1,1-Dichloroethane | 3.6 | | | | | | | | | | | |
| 1,1-Dichloroethene | 23 | | | | | | | | | | | |
| 1,2,3-Trichlorobenzene | 6.3 | | | | | | | | | | | |
| 1,2,3-Trichloropropane | 0.0051 | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 3.6 | < 0.00060 U | < 0.00086 U | < 0.064 UJ | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| 1,2-Dibromo-3-chloropropane | 0.0053 | | | | | | | | | | | |
| 1,2-Dibromoethane | 0.036 | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.46 | | | | | | | | | | | |
| 1,2-Dichloropropane | 1 | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 8.4 | < 0.00060 U | < 0.00086 U | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| 1,4-Dioxane | 5.3 | | | | | | | | | | | |
| 2-Butanone | 100 | | | | | | | | | | | |
| 2-Hexanone | 20 | | | | | | | | | | | |
| 4-Isopropyltoluene | 10 | 0.0017 | < 0.00086 U | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| 4-Methyl-2-pentanone | 3300 | | | | | | | | | | | |
| Acetone | 100 | | | | | | | | | | | |
| Benzene | 0.06 | < 0.00060 U | < 0.00086 U | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| Bromochloromethane | 15 | | | | | | | | | | | |
| Bromodichloromethane | 0.29 | | | | | | | | | | | |
| Bromoform | 19 | | | | | | | | | | | |
| Bromomethane | 0.68 | | | | | | | | | | | |
| Carbon disulfide | 77 | | | | | | | | | | | |
| Carbon tetrachloride | 0.65 | | | | | | | | | | | |
| Chlorobenzene | 28 | | | | | | | | | | | |
| Chloroethane | 1400 | | | | | | | | | | | |
| Chloroform | 0.32 | | | | | | | | | | | |
| Chloromethane | 11 | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 16 | | | | | | | | | | | |
| cis-1,3-Dichloropropene | NE | | | | | | | | | | | |
| cyclohexane | 650 | | | | | | | | | | | |
| Dibromochloromethane | 8.3 | | | | | | | | | | | |
| Dichlorodifluoromethane | 8.7 | | | | | | | | | | | |
| Ethylbenzene | **1** | < 0.00060 U | 0.0012 J | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| Isopropylbenzene | 2.3 | < 0.00060 U | 0.0018 | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |

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PAH - Polycyclic Aromatic Hydrocarbon.
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1. See Table 5 for selected subsurface soil screening criteria with petroleum cr
**SubSurface Criteria exceedances are highlighted and bolded**

**Table 9**
**Preliminary Screening of Subsurface Soil Results at AOCs with Petroleum Criteria**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| | Location Group | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-FPH | CH-AOC-MP | CH-AOC-MP | CH-AOC-MP | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB | CH-AOC-STB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location ID | FPH-SB03 | FPH-SB04 | FPH-SB04 | MP-SB01 | MP-SB01 | MP-SB03 | STB-SB01 | STB-SB02 | STB-SB03 | STB-SB04 | STB-SB04 |
| | Sample Date | 6/12/2016 | 6/12/2016 | 6/12/2016 | 6/14/2016 | 6/14/2016 | 6/13/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 | 6/15/2016 |
| | Depth Interval | 1 - 2 ft | 4 - 5 ft | 3 - 4 ft | 3 - 4 ft | 3 - 4 ft | 8 - 9 ft | 4 - 5 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft | 5 - 6 ft |
| | Sample Type | N | N | N | FD | N | N | N | N | N | FD | N |
| **Chemical** | **SubSurface Criteria [1] (mg/kg)** | | | | | | | | | | | |
| m,p-Xylene | NE | | | | | | | | | | | |
| Methyl tert-butyl ether | 0.93 | < 0.00060 U | < 0.00086 U | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| Methylacetate | 7800 | | | | | | | | | | | |
| methylcyclohexane | NE | | | | | | | | | | | |
| Methylene chloride | 35 | | | | | | | | | | | |
| Naphthalene | 3.8 | < 0.00060 U | < 0.00086 U | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 UJ |
| n-Butylbenzene | 12 | < 0.00060 U | 0.0026 | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| n-Propylbenzene | 3.9 | < 0.00060 U | 0.0024 | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| o-Xylene | 65 | | | | | | | | | | | |
| sec-Butylbenzene | 11 | < 0.0010 U | 0.0022 J | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00089 U | < 0.00088 U | < 0.0010 U | < 0.071 U | < 0.072 U | < 0.0010 U |
| Styrene | 600 | | | | | | | | | | | |
| tert-Butylbenzene | 5.9 | < 0.00060 U | < 0.00086 U | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | < 0.072 U | < 0.00063 U |
| Tetrachloroethene | 5.5 | | | | | | | | | | | |
| Toluene | 0.7 | < 0.00060 U | < 0.00086 U | < 0.064 U | < 0.075 U | < 0.086 U | < 0.00053 U | < 0.00053 U | < 0.00060 U | < 0.071 U | 0.13 | < 0.00063 U |
| trans-1,2-Dichloroethene | 100 | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 1.8 | | | | | | | | | | | |
| Trichloroethene | 0.41 | | | | | | | | | | | |
| Trichlorofluoromethane | 2300 | | | | | | | | | | | |
| Vinyl Acetate | 91 | | | | | | | | | | | |
| Vinyl chloride | 0.059 | | | | | | | | | | | |
| Xylenes (total) | **0.26** | < 0.0018 U | < 0.0026 U | < 0.19 U | < 0.22 U | < 0.26 U | < 0.0016 U | < 0.0016 U | < 0.0018 U | < 0.21 U | < 0.22 U | < 0.0019 U |

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**SubSurface Criteria exceedances are highlighted and bolded**

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**Table 10**
**Summary of Preliminary Screening Evaluation and Recommendations for Phase III**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| AOC ID | AOC Name | Evidence of Potential Source or Release from Geophysical Surveys or Field Observations | Surface Soil Results Above Preliminary Screening Values and BTVs | Subsurface Soil Results Above Preliminary Screening Values and BTVs | Recommendation for Phase III | Basis for Recommendation |
|---|---|---|---|---|---|---|
| 203 | Building 203 | Yes; Residual presence of LNAPL in the subsurface, ranging from approximately 5 to 35 ft bgs | N/A - No Preliminary Screening of Surface Soil Samples; Surface Soil Sampling completed along unbiased grid for calculation of EPCs within two Sampling Units | Aluminum, Arsenic, Chromium, Chromium III, Chromium VI, Cobalt, Iron, Magnesium, Manganese, Thallium, Vanadium,1-Methylnaphthalene, 2-Methylnaphthalene, Benzo(a)pyrene, Biphenyl, 1,1'-, Naphthalene,Ethylbenzene, Total Xylenes, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs; presence of LNAPL in subsurface. |
| H2 | Drum Location (H-2) | N/A | Lead, Manganese, Zinc | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H1 | Drum Location (H-1) | N/A | Cadmium, Benzo(a)pyrene, Total BaP PAHs Calculated | Benzo(a)pyrene, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H18 | Drum Location (H-18) | N/A | Thallium | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| WDS | WDS SB25 - SB27 Cesspools | N/A | No Surface Soil Samples | Arsenic, Iron | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H11 | Former Power Plant (H-11) | N/A | None | Arsenic, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H12 | Sewage Ejector Station (H-12) | N/A | Lead | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| WDS | WDS SB23 - SB24 Tile Field | N/A | No Surface Soil Samples | Arsenic, Chromium, Vanadium | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H19 | Former AST (H-19) | N/A | Lead | No Subsurface Samples | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H20 | Drum Location (H-20) | N/A | Cadmium, Lead | Iron, Benzo(a)pyrene, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H9 | Possible Boiler (H-9) | N/A | Manganese | No Subsurface Soil Samples | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| WDS | WDS SB01 - SB03 Chlorine Contact Chamber | N/A | Lead, Manganese, Benzo(a)pyrene, Benzo(b)fluoranthene | Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H15 | Former Coal Storage (H-15) | N/A | Antimony, Cobalt, Manganese, Thallium | No Subsurface Soil Samples from 1 - 10 ft bgs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H5 | Drum Location with Construction Debris (H-5) | N/A | Antimony, Arsenic, Beryllium, Cadmium, Cobalt, Lead, Selenium, Silver, Zinc | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| 034 | Former Building 34 | N/A | Arsenic, Cadmium, Lead, Manganese, Thallium, Benzo(a)pyrene, Total BaP PAHs Calculated, Total HMW PAHs Calculated | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H16 | Former Sewage Treatment Area (H-16) | N/A | Lead, Manganese, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Dibenzofuran, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene, Total BaP PAHs Calculated, Total HMW PAHs Calculated, Total LMW PAHs Calculated | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| MP | Motor Pool | N/A | Total HMW PAHs Calculated | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| WDS | WDS SB08 - SB09 Box and Manhole | N/A | No Surface Soil Samples | Benzo(a)pyrene, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H14 | Former Coal Storage (H-14) | N/A | Arsenic, Cobalt, Magnesium, Manganese, Thallium | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |

**Table 10**
**Summary of Preliminary Screening Evaluation and Recommendations for Phase III**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| AOC ID | AOC Name | Evidence of Potential Source or Release from Geophysical Surveys or Field Observations | Surface Soil Results Above Preliminary Screening Values and BTVs | Subsurface Soil Results Above Preliminary Screening Values and BTVs | Recommendation for Phase III | Basis for Recommendation |
|---|---|---|---|---|---|---|
| WDS | WDS SB06 - SB07 Suspected Septic Tank | N/A | No Surface Soil Samples | Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Dibenzofuran, Indeno(1,2,3-cd)pyrene, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H6 | Construction Debris Area (H-6) | Yes; PCBs detected in turbid grab-groundwater sample | Lead | No Subsurface Soil Samples | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs; PCBs detected in grab-groundwater sample. |
| WDS | WDS SB13 | N/A | No Surface Soil Samples | Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Indeno(1,2,3-cd)pyrene, Total BaP PAHs | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H4 | Construction Debris Area (H-4) | N/A | Lead | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| H3 | Drum Site (H-3) | N/A | Cadmium, Zinc | None | Further Assessment Warranted | Compounds in soil exceeding preliminary screening values and BTVs. |
| AST35 | AST-35 (H-13) | Yes; Petroleum odor and sheen from temporary wells. | None | None | Further Assessment Warranted (groundwater only) | Surface and subsurface soil samples collected in vicinity of identified buried debris had no compounds exceeding screening values or BTVs; however, field observations indicate potential |
| FPH | FPH for AST-35 | Yes; Petroleum odor and sheen from temporary wells. | None | None | Further Assessment Warranted (groundwater only) | Surface and subsurface soil samples collected in vicinity of identified buried debris had no compounds exceeding screening values or BTVs; however, field observations indicate potential |
| STB | Suspected Tank B | Yes; Petroleum odor and sheen from temporary wells. | None | None | Further Assessment Warranted (groundwater only) | Surface and subsurface soil samples collected in vicinity of identified buried debris had no compounds exceeding screening values or BTVs; however, field observations indicate potential |
| WDS | WDS SB20 Septic Tank | N/A | No Surface Soil Samples | Calcium | NFA Warranted | Calcium was the only compound exceeding preliminary screening criteria and BTVs. |
| 201 | Building 201 | N/A | No Surface Soil Samples | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| 2010 | Building 2010 (UST 30) | N/A | None | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| F100C | Building F100C (UST 34) | N/A | None | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| H22 | Drum Site (H-22) | N/A | None | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| EFO | Engineering Field Office | N/A | None | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| H17 | Open Pits (H-17) | N/A | None | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| H21 | Open Pits (H-21) | N/A | None | None | NFA Warranted | No evidence of potential source or release; Calcium was the only compound exceeding preliminary screening criteria and BTVs. |
| P113 | Plotting Room 113 | Yes; Buried debris identified in geophysical survey. | None | None | NFA Warranted | No exceedances of preliminary screening criteria or BTVs for soil samples collected in vicinity of buired debris. |
| WDS | WDS SB04 - SB05 Septic Tank | N/A | None | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| WDS | WDS SB10 Box | N/A | No Surface Soil Samples | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| WDS | WDS SB11 Cesspool | N/A | No Surface Soil Samples | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| WDS | WDS SB12 | N/A | No Surface Soil Samples | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |

**Table 10**
**Summary of Preliminary Screening Evaluation and Recommendations for Phase III**
**Camp Hero Remedial Investigation**
**Montauk, New York**

| AOC ID | AOC Name | Evidence of Potential Source or Release from Geophysical Surveys or Field Observations | Surface Soil Results Above Preliminary Screening Values and BTVs | Subsurface Soil Results Above Preliminary Screening Values and BTVs | Recommendation for Phase III | Basis for Recommendation |
|---|---|---|---|---|---|---|
| WDS | WDS SB14 - SB17 Cesspools | N/A | No Surface Soil Samples | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| WDS | WDS SB18 - SB19 | N/A | No Surface Soil Samples | No Subsurface Soil Samples from 1 - 10 ft bgs | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| WDS | WDS SB21 - SB22 Septic Tank, Drain Field | N/A | None | None | NFA Warranted | No evidence of potential source or release; no exceedances of preliminary screening criteria or BTVs. |
| 216 | Battery 216 | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| AGC1 | AGC Site 1 | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| AGC2 | AGC Site 2 | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| AGC3 | Camp Hero State Park Bluffs / AGC Site 3 | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| AGC4 | AGC Site 4 | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| H7 | H-7 Boiler | No; an extensive visual and magnetometer survey was was unable to locate the boilers noted by Cashin (1998). | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| H8 | H-8 Boiler | No; an extensive visual and magnetometer survey was was unable to locate the boilers noted by Cashin (1998). | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| STA | Building 20 (Tank A) | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| STC | Building 2 (Tank C) | No; Geophysical survey indicated tank-sized subsurface anomaly. Small "test holes" verified that no tank was present in the subsurface; no petroleum odor or staining observed. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| STD | Building 104R (Tank D) | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| STE | Building 3001 (Tank E) | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| STF | Pump House (Tank F) | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| STG | Pump House (Tank G) | No; Geophysical survey completed - no tanks or underground anomalies identified. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| STH | Building 109 (Tank H) | No; Geophysical survey indicated tank-sized subsurface anomaly. Small "test holes" verified that no tank was present in the subsurface; no petroleum odor or staining observed. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No evidence of potential source or release. |
| 112 | Battery 112 | N/A | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | No access (building sealed). |
| 010 | Building 10 | Yes; PCBs present based on wipe/concrete chip samples. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | Removal action under separate contract. Note this Building was not included in the RI WP as an AOC but was inventoried during the Phase I Field Effort at USACE request. |
| 107 | Building 107 Electrical Substation | Yes; PCBs present based on wipe/concrete chip samples. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | Removal action under separate contract. |
| B113 | Battery 113 | Yes; PCBs present based on wipe/concrete chip samples. Two ASTs present containing weathered diesel fuel. | No Surface Soil Samples | No Subsurface Soil Samples | NFA Warranted | Removal action under separate contract. |

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