

Appendix A

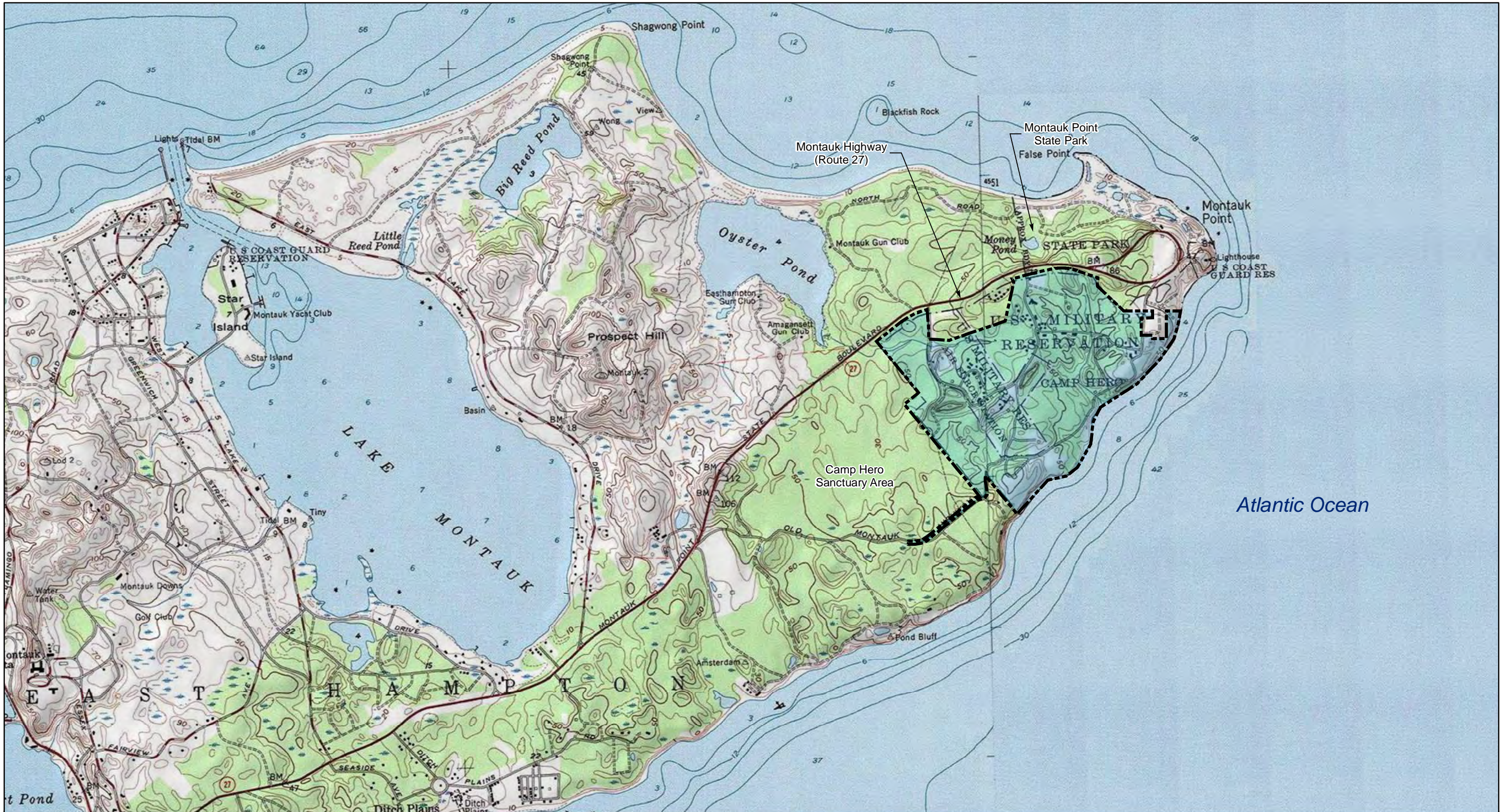
Figures

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FIGURE ACRONYMS AND ABBREVIATIONS

%	percent
°C	degrees Centigrade
°F	degrees Fahrenheit
µg/L	micrograms per liter
ACG	Army Geospatial Center
AOC	area of concern
AST	aboveground storage tank
BaP PAH	benzo(a)pyrene equivalent polycyclic aromatic hydrocarbon
BG	background
BM	benchmark
COC	chemical of concern
DU	decision unit
ECO	ecological
EFO	engineering field office
FIPS	Federal Information Processing Standard
FPH	fuel pump house
ft	foot or feet
GDG	Geospatial Data Gateway
GIS	Geographic Information System
GW	groundwater
HH	human health
HMW	high molecular weight
ITS	Office of Information Technology Services (New York State)
LIF	laser induced fluorescence
LNAPL	light non-aqueous phase liquid
mg/kg	milligram per kilogram
MP	motor pool
MW	monitoring well
NAD	North American Vertical Datum
NAIP	National Agriculture Imagery Program
NAVD	North American Vertical Datum
NFA	no further action
NHD	National Hydrography Dataset
NRCS	Natural Resources Conservation Service

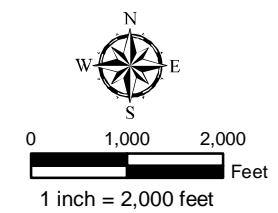
NYNHP	New York Natural Heritage Program
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSOPRHP	New York State Office of Parks, Recreation, and Historic Preservation
ORP	oxidation-reduction potential
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PP	Paumanok Path
PW	Point Woods Trail
RE	reference emitter
RI	Remedial Investigation
SB	soil boring
SEA	stream exposure area
SSURGO	Soil Survey Geographic Database
STA	suspected tank A
STB	suspected tank B
STC	suspected tank C
STD	suspected tank D
STE	suspected tank E
STF	suspected tank F
STG	suspected tank G
STH	suspected tank H
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Society
USGS	United States Geological Survey
UST	underground storage tank
WDS	waste disposal system



Camp Hero Built Features

Camp Hero State Park Boundary

NAD 1983 StatePlane Long Island FIPS 3104
 Basemap Copyright: © 2013 National Geographic Society, i-cubed



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General Location Map

Camp Hero Remedial Investigation
 Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 1-1
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Camp Hero Natural Features	
Wetlands	
	Class 1 NYSDEC Wetlands
	Class 2 NYSDEC Wetlands
	2017 Additional Wetlands Observed
	2017 Additional Wetlands Boundary Observed
Surface Water	
	Low Gradient Drainage
	Intermittent Drainage without Revetment
	Intermittent Drainage with Revetment
	Primary Drainage without Revetment
	Primary Drainage with Revetment

Camp Hero Built Features	
	Camp Hero State Park Boundary
	Existing Building
	Former Building
	Restricted Areas
	Area H
	Area K
	State Park Trails
	Battery 112 Trail
	Battery 113 Trail
	Paumanok Path
	Camping
	Picnic
	Fence
	Road

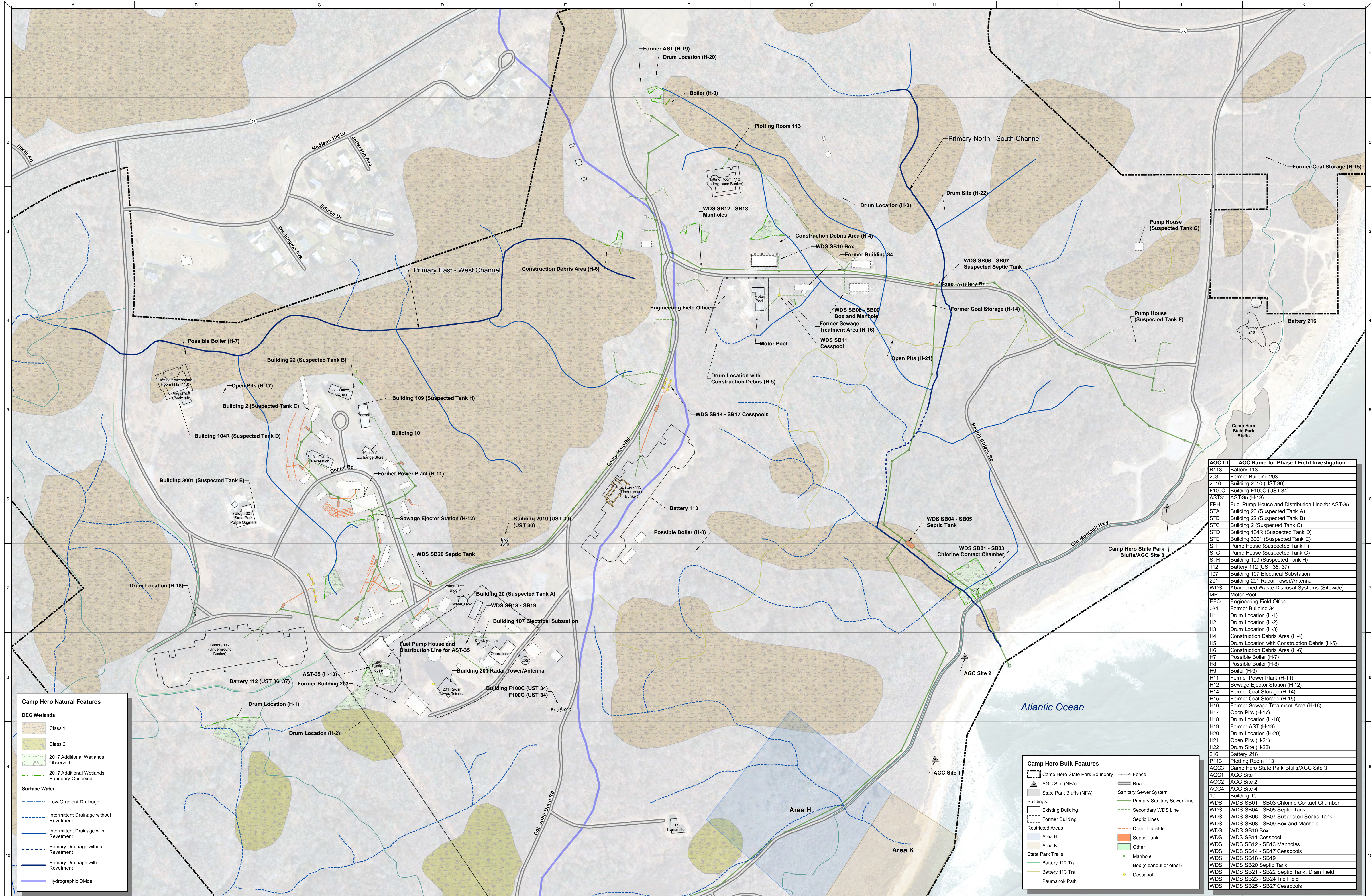
Notes:
 1. No wetland conditions observed within DU boundary of DU01, DU12, or DU18.
 2. Wetlands were evaluated only within Decision Units.

0 125 250 500 Feet
 1 inch = 250 feet

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Site Map
 Camp Hero Remedial Investigation
 Montauk, New York

PROJECT NO: 60443903
 PREPARED BY: JS
 DATE: September 2018
Figure 1-2



Camp Hero Natural Features

DEC Wetlands

- Class 1
- Class 2
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed

Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Hydrographic Divide

Camp Hero Built Features

- Camp Hero State Park Boundary
- 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
- Fence
- Road
- Sanitary Sewer System: Primary Sanitary Sewer Line, Secondary WDS Line, Septic Lines
- Drain Tilefields
- Septic Tank
- Manhole
- Box (cleanout or other)
- Cesspool

AOC ID	AOC Name for Phase I Field Investigation
B113	Battery 113
203	Former Building 203
2010	Building 2010 (UST 30)
F100C	Building F100C (UST 34)
AST35	AST-35 (H-13)
FPH	Fuel Pump House and Distribution Line for AST-35
STA	Building 20 (Suspected Tank A)
STB	Building 22 (Suspected Tank B)
STC	Building 2 (Suspected Tank C)
STD	Building 104R (Suspected Tank D)
STE	Building 3001 (Suspected Tank E)
STF	Pump House (Suspected Tank F)
STG	Pump House (Suspected Tank G)
STH	Building 109 (Suspected Tank H)
112	Battery 112 (UST 36, 37)
107	Building 107 Electrical Substation
201	Building 201 Radar Tower/Antenna
WDS	Abandoned Waste Disposal Systems (Sitewide)
MP	Motor Pool
EFO	Engineering Field Office
034	Former Building 34
H1	Drum Location (H-1)
H2	Drum Location (H-2)
H3	Drum Location (H-3)
H4	Construction Debris Area (H-4)
H5	Drum Location with Construction Debris (H-5)
H6	Construction Debris Area (H-6)
H7	Possible Boiler (H-7)
H8	Possible Boiler (H-8)
H9	Boiler (H-9)
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)
H20	Drum Location (H-20)
H21	Open Pits (H-21)
H22	Drum Site (H-22)
216	Battery 216
P113	Plotting Room 113
AGC3	Camp Hero State Park Bluffs/AGC Site 3
AGC1	AGC Site 1
AGC2	AGC Site 2
AGC4	AGC Site 4
10	Building 10
WDS	WDS SB01 - SB03 Chlorine Contact Chamber
WDS	WDS SB04 - SB06 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
WDS	WDS SB21 - SB22 Septic Tank, Drain Field
WDS	WDS SB23 - SB24 Tile Field
WDS	WDS SB25 - SB27 Cesspools

MAP LOCATION

1. No wetland conditions observed within DU boundary of DU01, DU12, or DU18.
2. Wetlands were evaluated only within Decision Units.

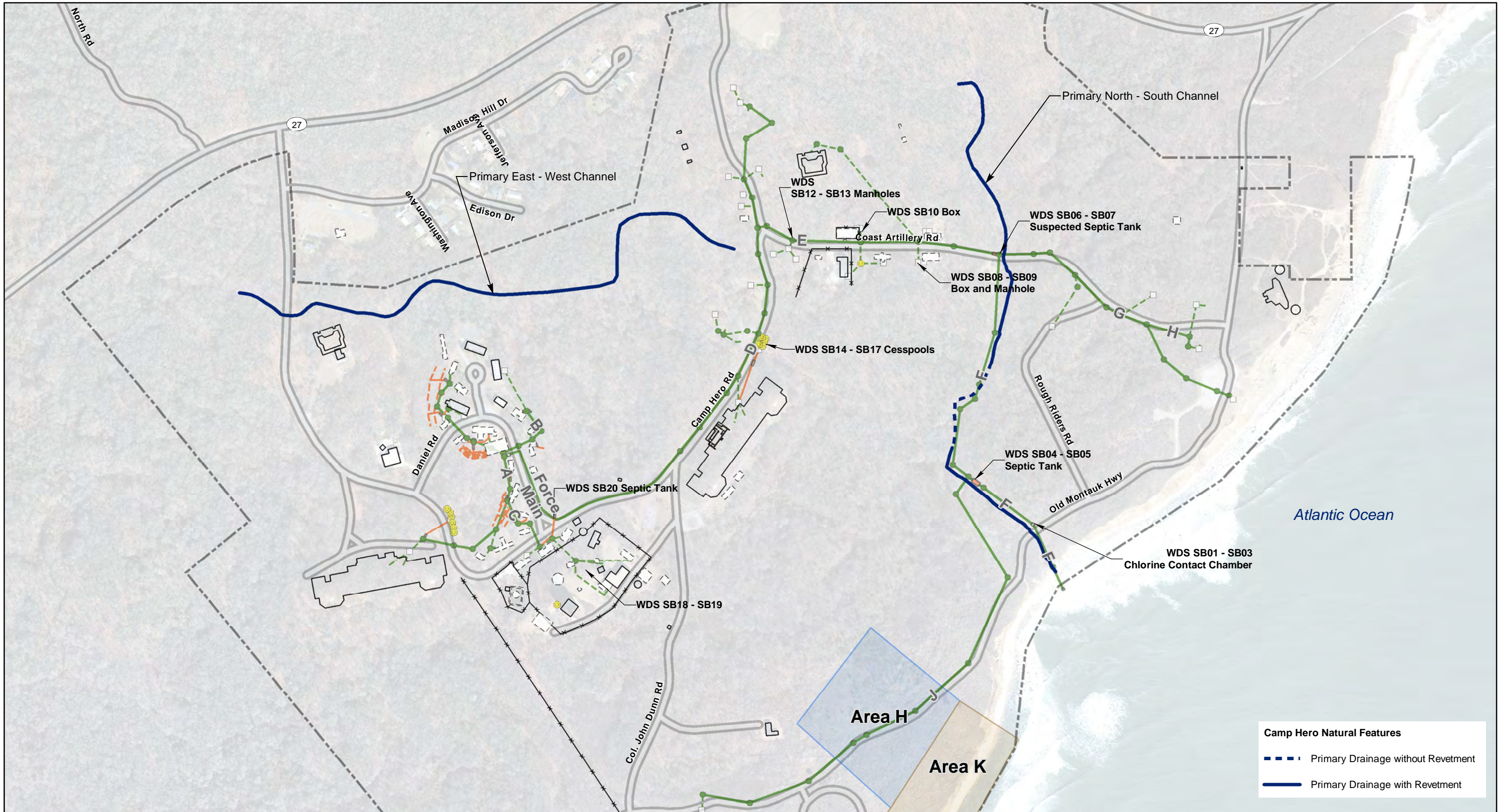
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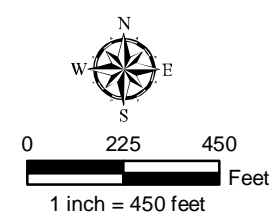
Site Map with AOCs
Camp Hero Remedial Investigation
Montauk, New York

0 75 150 300 Feet
1 inch = 150 feet

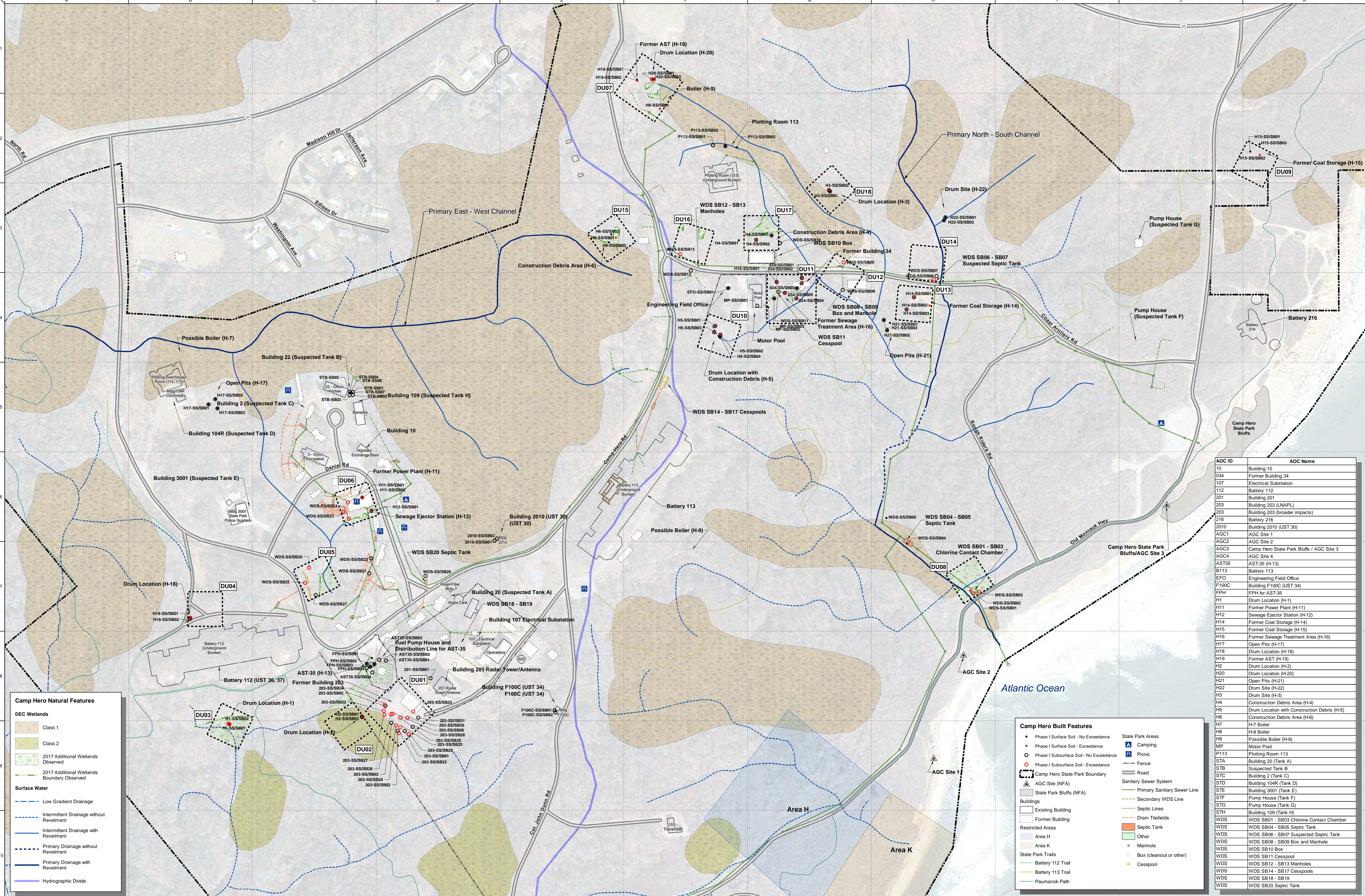
September 2018 **Figure 2-1**



Camp Hero Built Features		Restricted Areas		Sanitary Sewer System		Other	
Camp Hero State Park Boundary	Area H	Fence	Road	Septic Lines	Manhole	Box (cleanout or other)	Cesspool
Existing Building	Area K	Sanitary Sewer System	Septic Tank	Drain Tilefields	Other		
Former Building		Primary Sanitary Sewer Line		Secondary WDS Line			



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		Site Map with Waste Disposal System Camp Hero Remedial Investigation Montauk, New York	
PROJECT NO. 60443903	PREPARED BY: JB	DATE: September 2018	Figure 2-2



Camp Hero Natural Features

DEC Wetlands

- Class 1
- Class 2
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed

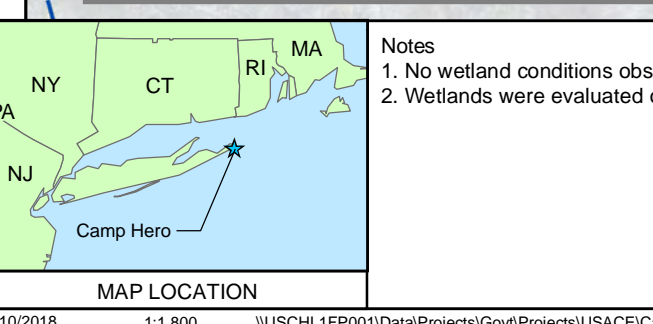
Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Hydrographic Divide

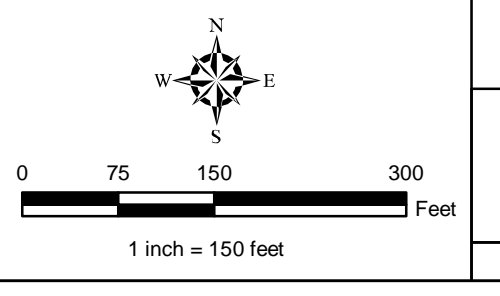
Camp Hero Built Features

- Phase I Surface Soil - No Exceedance
- Phase I Surface Soil - Exceedance
- Phase I Subsurface Soil - No Exceedance
- Phase I Subsurface Soil - Exceedance
- Camp Hero State Park Boundary
- AGC Site (NFA)
- State Park Bluffs (NFA)
- Buildings: Existing, Former
- Restricted Areas: Area H, Area K
- State Park Trails: Battery 112, Battery 113, Paumanok
- State Park Areas: Camping, Picnic
- Fence
- Road
- Sanitary Sewer System: Primary, Secondary
- Septic Lines
- Drain Tilefields
- Septic Tank
- Other: Manhole, Box, 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)
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



Note:
1. No wetland conditions observed within DU boundary of DU01, DU12, or DU18.
2. Wetlands were evaluated only within Decision Units.

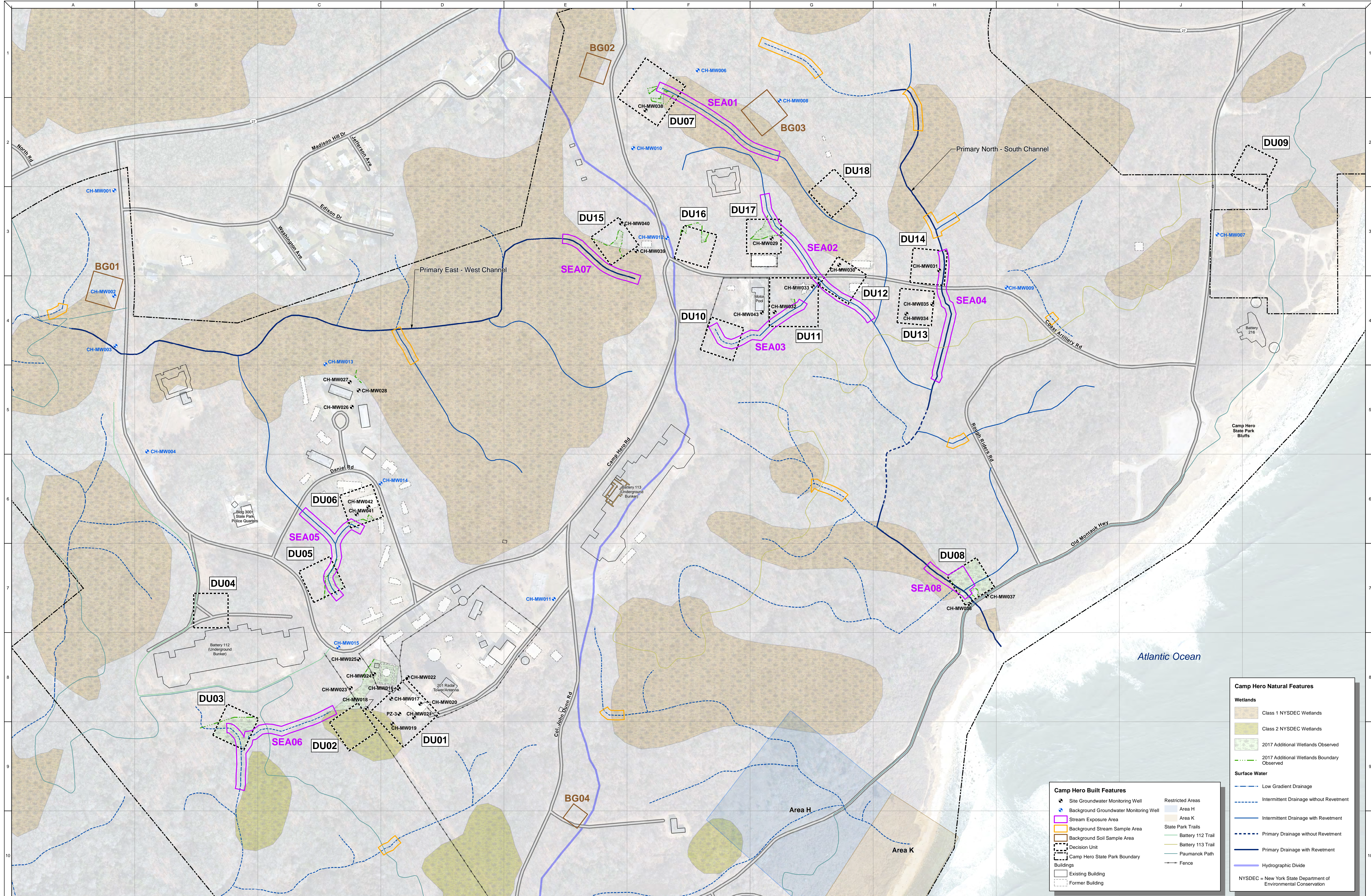


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Site Map with AOCs and Decision Units
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO: 60443903
REVISION: JS
September 2016

Figure 2-3



Camp Hero Built Features

- Site Groundwater Monitoring Well
- Background Groundwater Monitoring Well
- Stream Exposure Area
- Background Stream Sample Area
- Background Soil Sample Area
- Decision Unit
- Camp Hero State Park Boundary
- Buildings
 - Existing Building
 - Former Building
- Restricted Areas
 - Area H
 - Area K
- State Park Trails
 - Battery 112 Trail
 - Battery 113 Trail
 - Paumanok Path
- Fence

Camp Hero Natural Features

Wetlands

- Class 1 NYSDEC Wetlands
- Class 2 NYSDEC Wetlands
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed

Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Hydrographic Divide

NYSDEC = New York State Department of Environmental Conservation

MAP LOCATION

Notes

- No wetland conditions observed within DU boundary of DU01, DU12, or DU18.
- Wetlands were evaluated only within Decision Units.

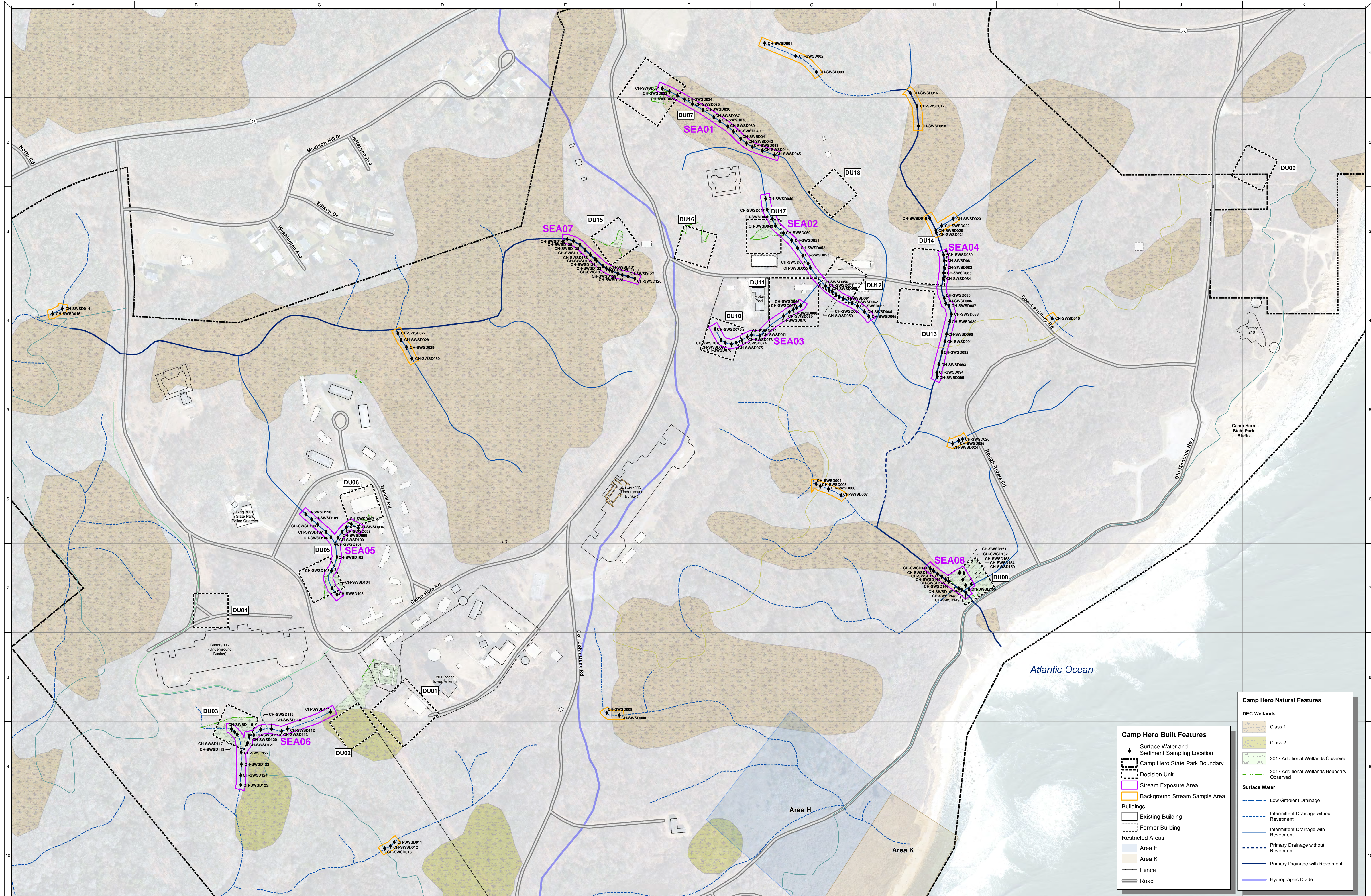
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Site Map with Decision Units, Stream Exposure Areas, Monitoring Well Network
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO: 60443903 | PREPARED BY: JS | DATE: September 2018 | **Figure 2-4**

Scale: 1 inch = 150 feet



Camp Hero Natural Features

DEC Wetlands

- Class 1
- Class 2
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed

Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Hydrographic Divide

Camp Hero Built Features

- Surface Water and Sediment Sampling Location
- Camp Hero State Park Boundary
- Decision Unit
- Stream Exposure Area
- Background Stream Sample Area

Buildings

- Existing Building
- Former Building

Restricted Areas

- Area H
- Area K

Other Features

- Fence
- Road

MAP LOCATION

Note:
 1. No wetland conditions observed within DU boundary of DU01, DU12, or DU18.
 2. Wetlands were evaluated only within Decision Units.

Scale: 1 inch = 150 feet

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Site Map with Surface Water and Sediment Sampling Locations
 Camp Hero Remedial Investigation
 Montauk, New York

PROJECT NO: 60443903
 PREPARED BY: JS
 DATE: September 2018

Figure 2-5



Camp Hero Built Features

- Possible Future Camping Area (Red Triangle)
- Possible New Trail (Red Line)
- Property Boundary (Dashed Black Line)
- Decision Unit (Black Outline)
- Former Building (Grey Outline)
- Restricted Areas: Area H (Blue), Area K (Orange)
- State Park Trails: Battery 112 Trail (Green), Battery 113 Trail (Yellow), Paumanok Path (Blue)
- State Park Areas: Camping (Blue Triangle), Picnic (Blue Square)
- Fence (Black Line)
- Road (Grey Line)
- Topographic Contours: 10 ft (Thin Grey), 2 ft (Thick Grey)

Camp Hero Natural Features

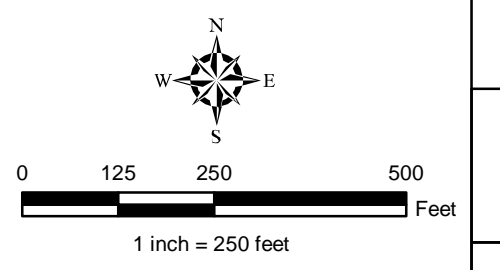
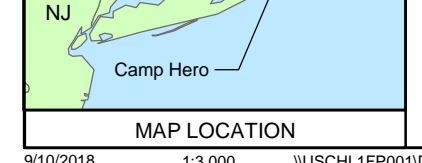
Surface Water

- Low Gradient Drainage (Dashed Blue Line)
- Intermittent Drainage without Revetment (Dotted Blue Line)
- Intermittent Drainage with Revetment (Dashed Blue Line with Tick)
- Primary Drainage without Revetment (Dotted Blue Line with Tick)
- Primary Drainage with Revetment (Solid Blue Line with Tick)

Wetlands

- Class 1 NYSDEC Wetlands (Light Brown)
- Class 2 NYSDEC Wetlands (Light Green)
- 2017 Additional Wetlands Observed (Green)
- 2017 Additional Wetlands Boundary Observed (Dotted Green Line)

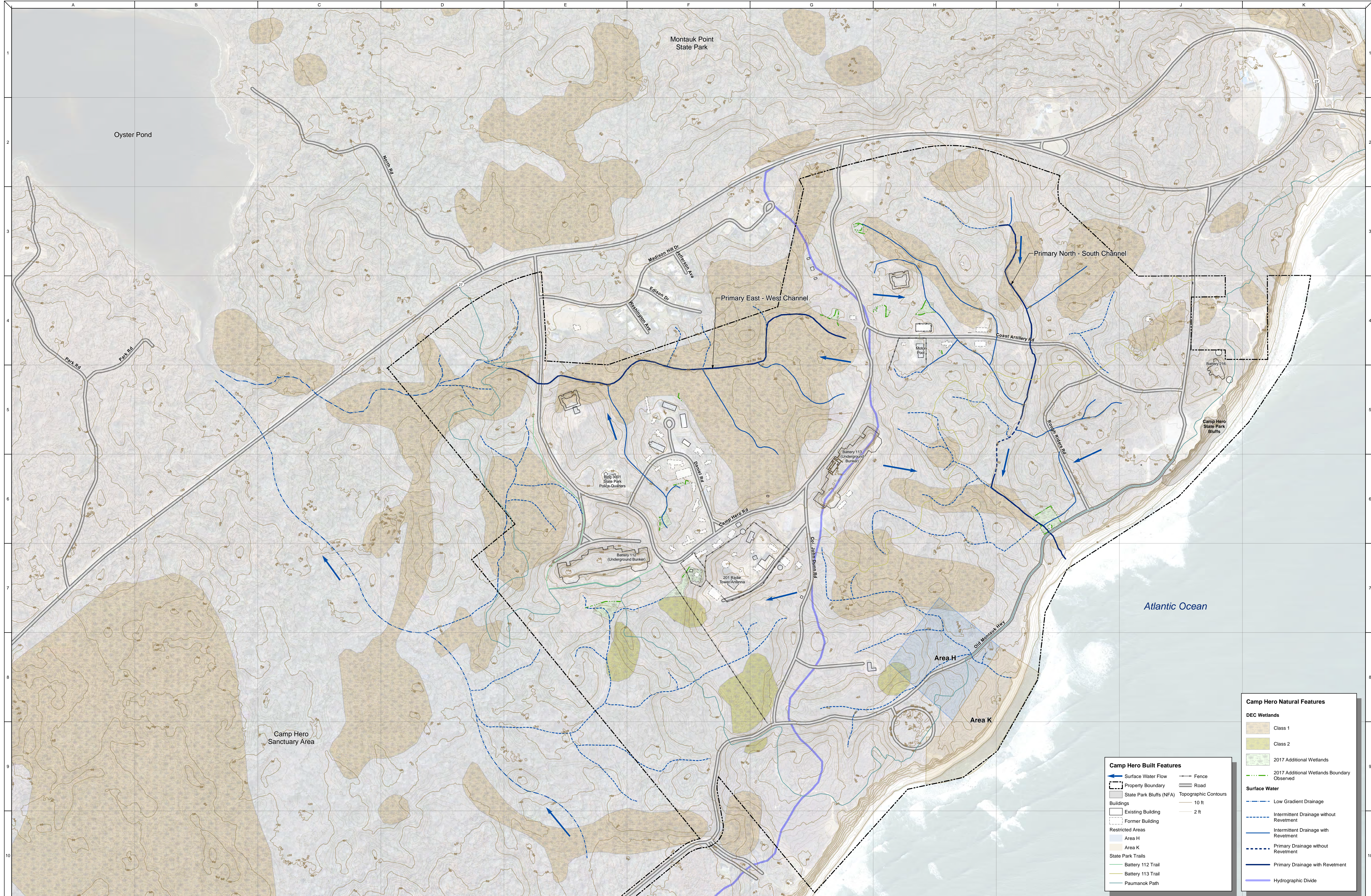
Notes:
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Current and Potential Future Land Use Map
 Camp Hero Remedial Investigation
 Montauk, New York

PROJECT NO: 60443903
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 DATE: September 2018
 FIGURE: Figure 3-1



Camp Hero Natural Features

DEC Wetlands

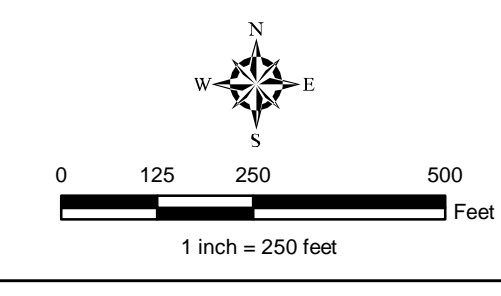
- Class 1
- Class 2
- 2017 Additional Wetlands
- 2017 Additional Wetlands Boundary Observed

Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Hydrographic Divide

Camp Hero Built Features

- Surface Water Flow
- Property Boundary
- 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
- Fence
- Road
- Topographic Contours
- 10 ft
- 2 ft



MAP LOCATION

Note

- No wetland conditions observed within DU boundary of DU01, DU12, or DU18.
- Wetlands were evaluated only within Decision Units.

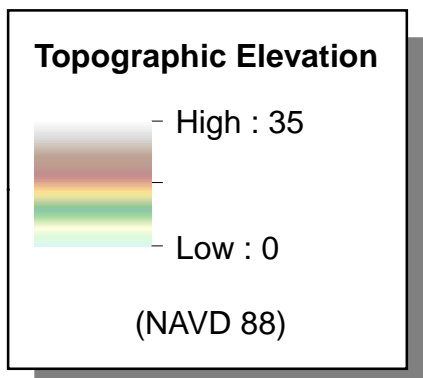
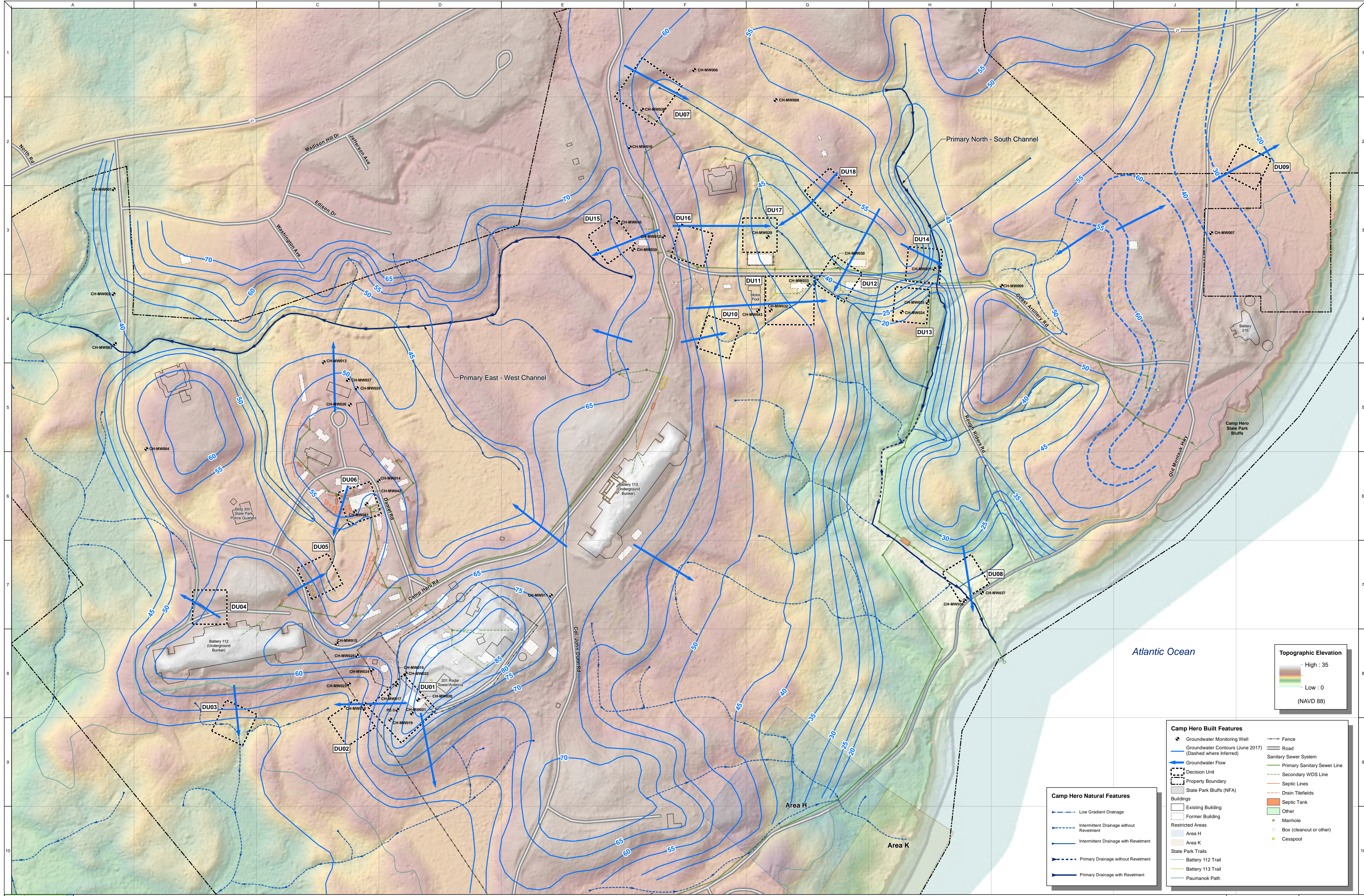
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Surface Water Drainage, Topography, and Aquatic Resources Map
Camp Hero Remedial Investigation
Montauk, New York

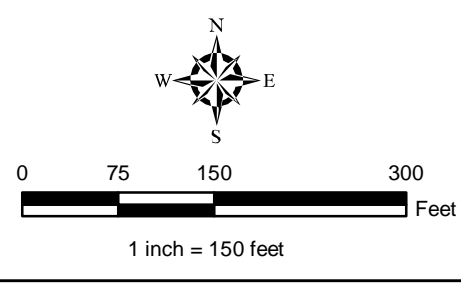
PROJECT NO: 60443903
DATE: 9/28/2018
DRAWN BY: JS

Figure 3-2



- | | |
|---|-----------------------------|
| Camp Hero Built Features | |
| Groundwater Monitoring Well | Fence |
| Groundwater Contours (June 2017)
(Dashed where Inferred) | Road |
| Groundwater Flow | Sanitary Sewer System |
| Decision Unit | Primary Sanitary Sewer Line |
| Property Boundary | Secondary WDS Line |
| State Park Bluffs (NFA) | Septic Lines |
| Buildings | Drain Tilefields |
| Existing Building | Septic Tank |
| Former Building | Other |
| Restricted Areas | Manhole |
| Area H | Box (cleanout or other) |
| Area K | Cesspool |
| State Park Trails | |
| Battery 112 Trail | |
| Battery 113 Trail | |
| Paumanok Path | |

- | | |
|---|--|
| Camp Hero Natural Features | |
| Low Gradient Drainage | |
| Intermittent Drainage without Revetment | |
| Intermittent Drainage with Revetment | |
| Primary Drainage without Revetment | |
| Primary Drainage with Revetment | |

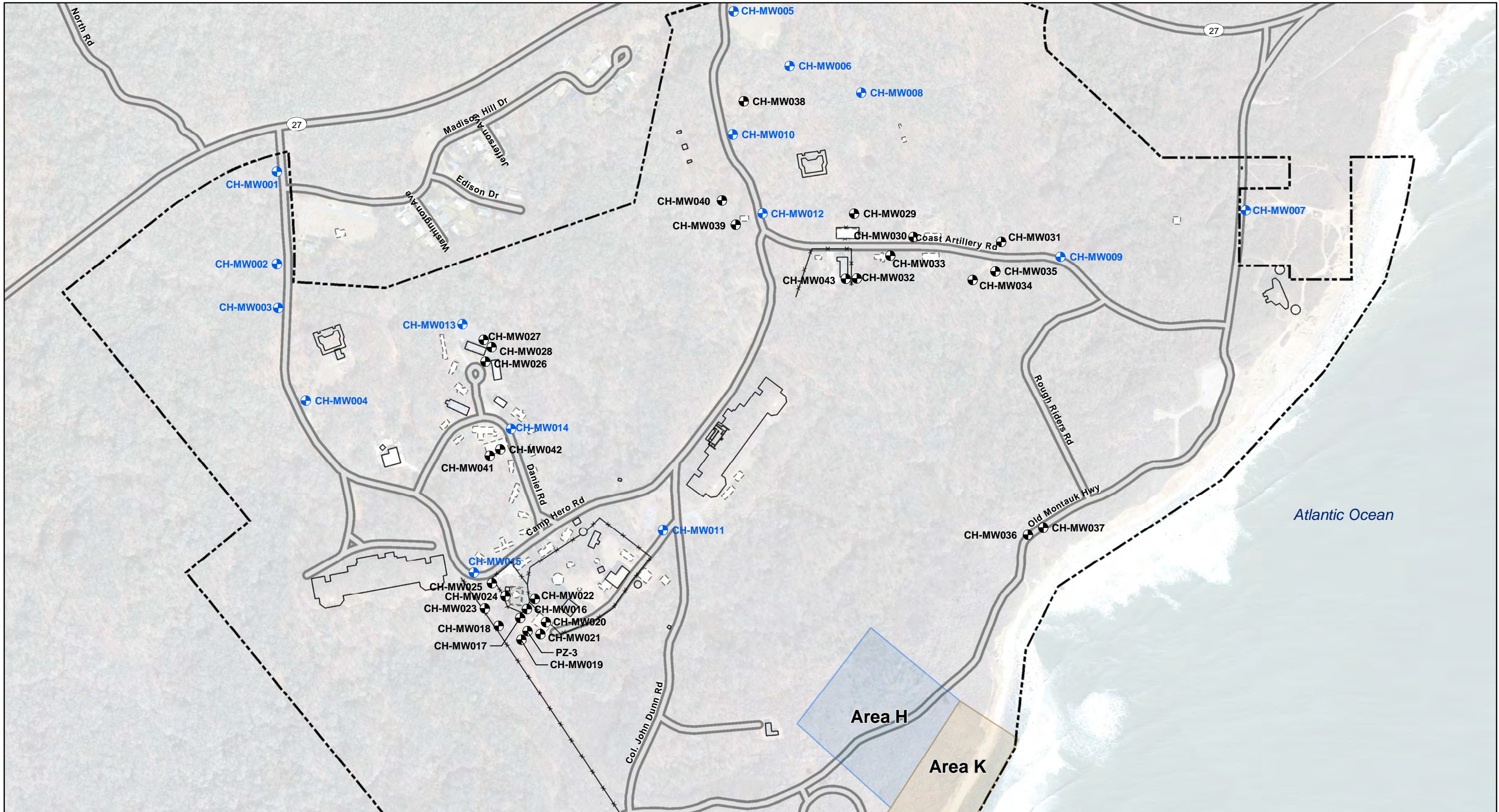


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Perched Groundwater Elevation and Topographic Relief Map
 Camp Hero Remedial Investigation
 Montauk, New York

PROJECT NO: 60443903
 PREPARED BY: JS
 DATE: September 2018

Figure 3-3



Camp Hero Built Features

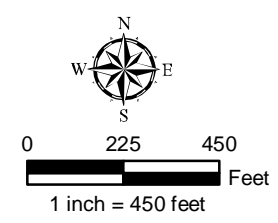
- Site Groundwater Monitoring Well
- Background Groundwater Monitoring Well
- Camp Hero State Park Boundary
- Existing Building
- Former Building

Restricted Areas

- Area H
- Area K

Other Symbols

- Fence
- Road



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		Groundwater Monitoring Well Network	
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: September 2018	Figure 3-4



- EXPLANATION**
- S19484
Test well and number
 - S1202
Abandoned well
 - S1723
Air Force supply well
 - S2440
Private well
 - 2
Surface-water sampling point and number
 - Sg3
Stream-gaging station and number
 - 2
Water-level contour
Control point shown by solid circle,
arrow indicates direction of
horizontal component of
movement
 - A-A'
Line of geohydrologic section shown
on plate 2

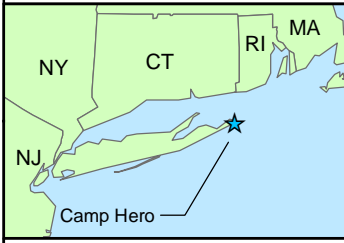
Base by U.S. Geological Survey, 1956

77°52'30"

Hydrology by N. M. Perimutter and E. A. DeLuca

MAP OF MONTAUK POINT, NEW YORK, SHOWING LOCATION OF WELLS, SURFACE-WATER SAMPLING POINTS, STREAM-GAGING STATIONS, AND WATER-LEVEL CONTOURS ON THE PIEZOMETRIC SURFACE OF THE PRINCIPAL AQUIFER

674835 G - 63 (In pocket)



MAP LOCATION



See data frame for scale.

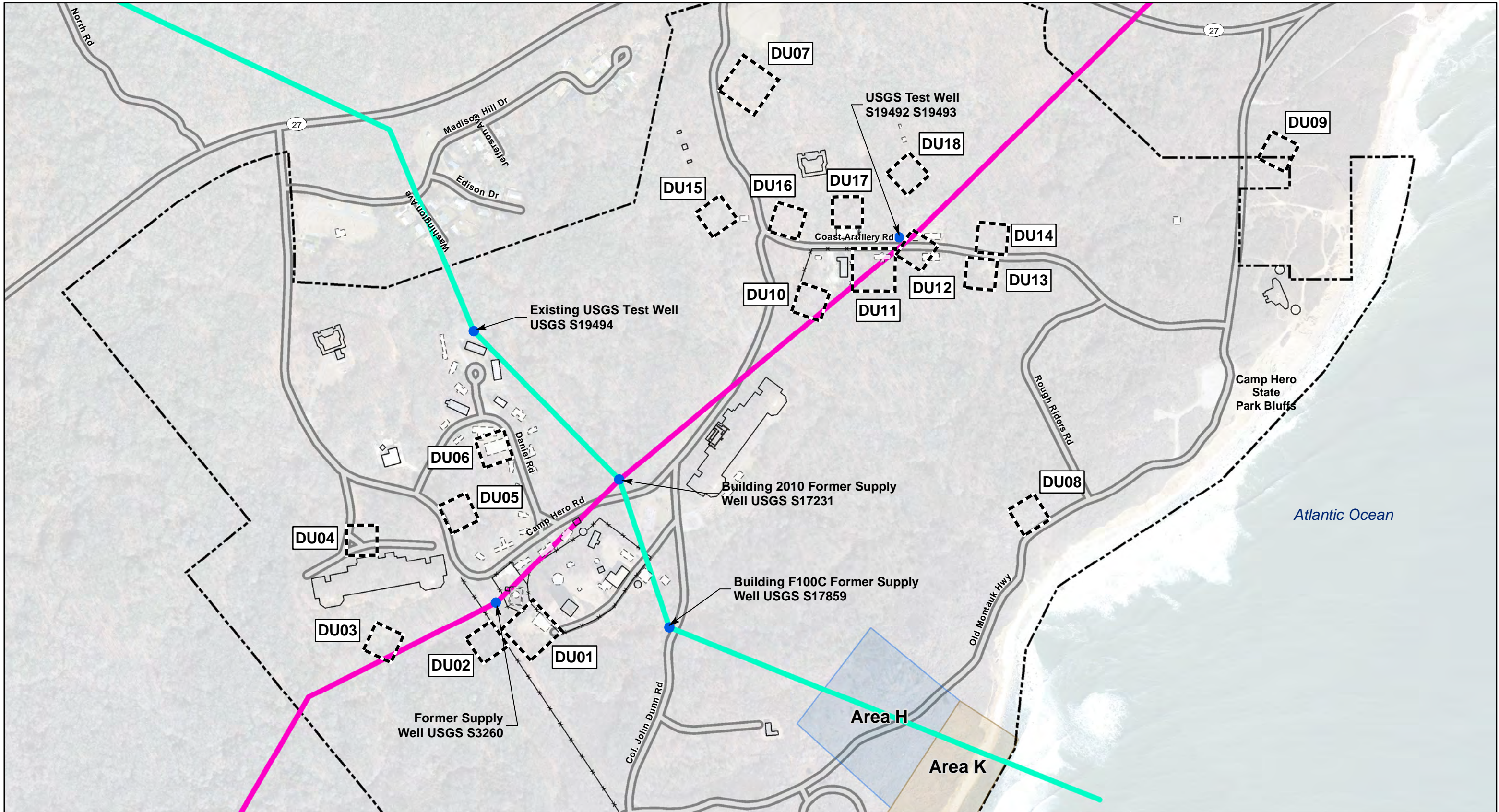


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USGS Cross Section Location Map

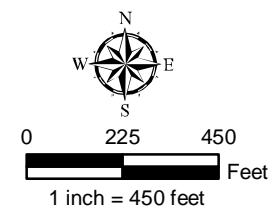
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: ACC	DATE: April 2018	Figure 3-5
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Camp Hero Built Features

- USGS Test Well Location and Number
- USGS Cross Section A-A'
- USGS Cross Section B-B'
- Camp Hero State Park Boundary
- Buildings
- Former Building
- Restricted Areas
- Area H
- Area K
- Fence
- Road



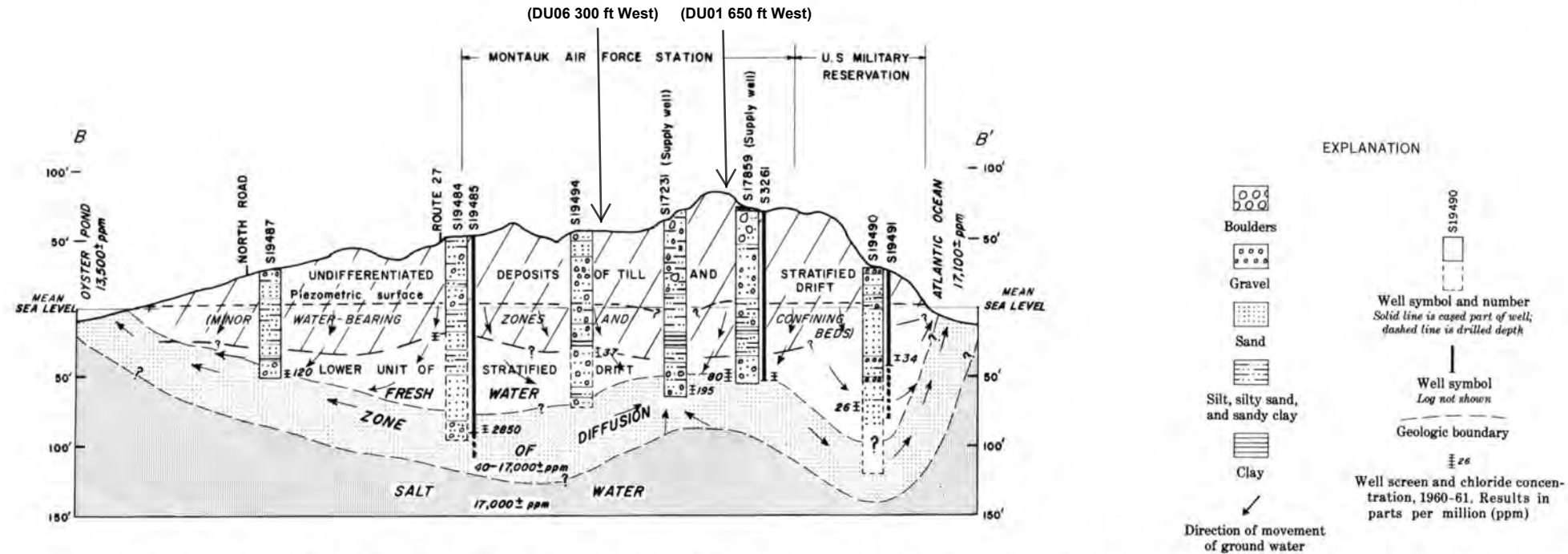
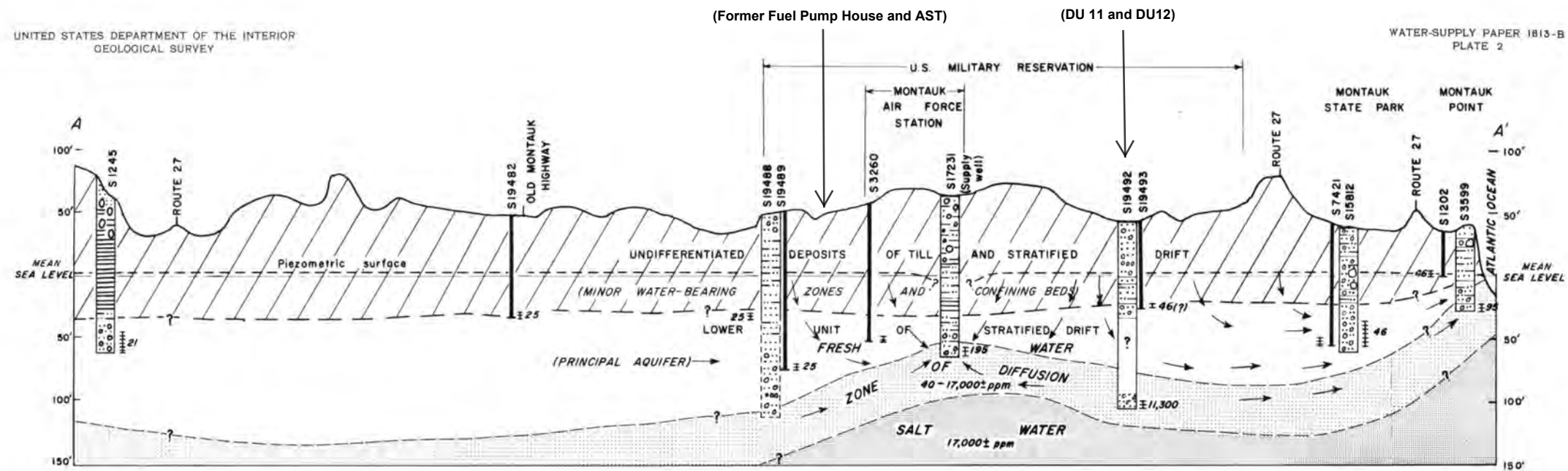
AECOM

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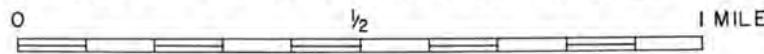
USGS Cross Sections A-A' and B-B'

Camp Hero Remedial Investigation
Montauk, New York

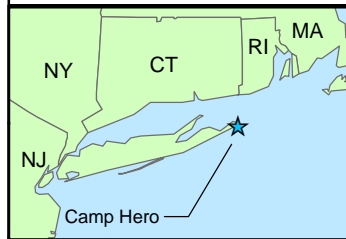
PROJECT NO. 60443903	PREPARED BY: JB	DATE: September 2018	Figure 3-6
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GEOHYDROLOGIC SECTIONS A-A' AND B-B', MONTAUK POINT, NEW YORK



674838 O - 63 (In pocket)



MAP LOCATION

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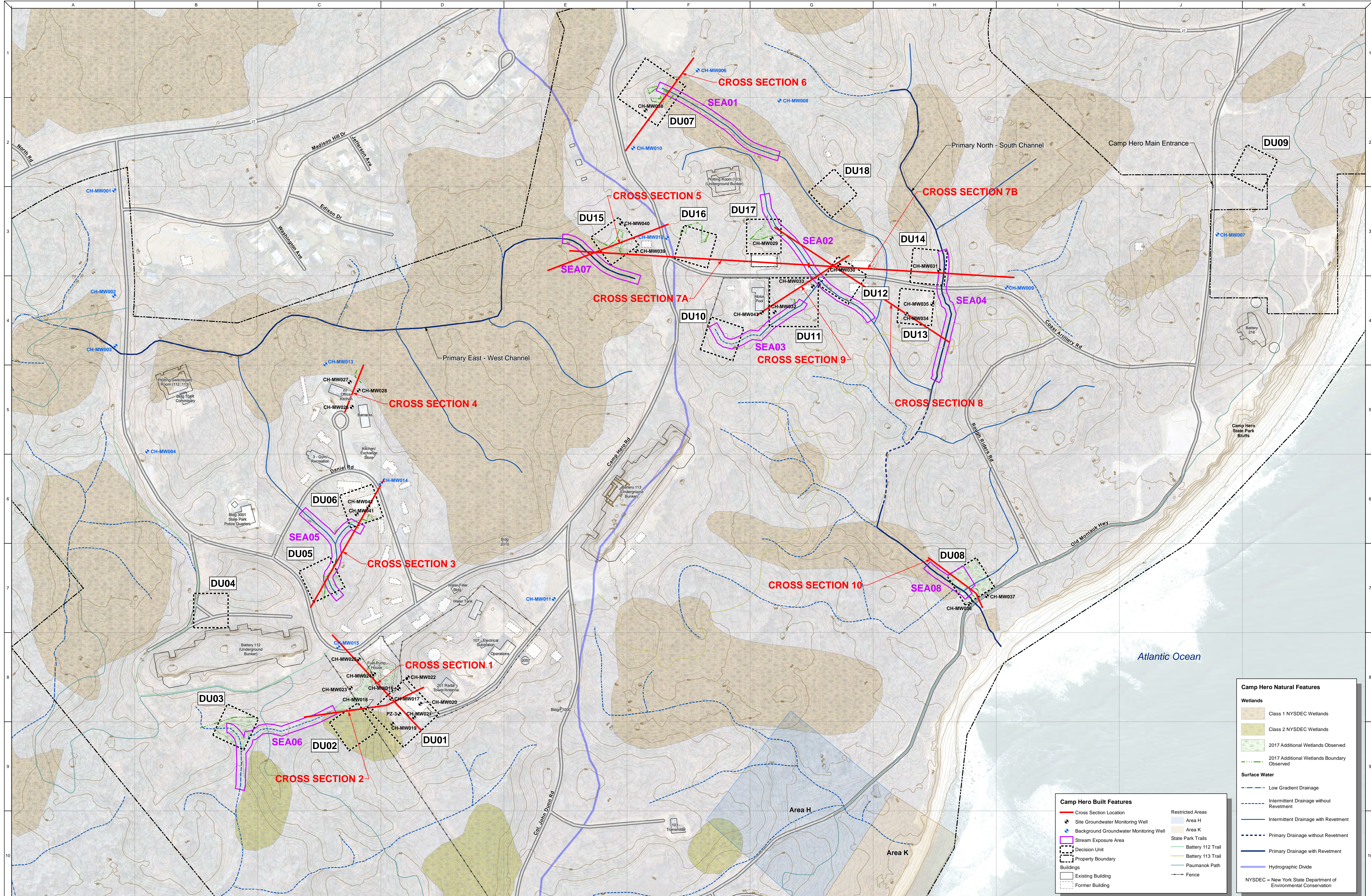
**USGS Cross Sections
with Select DU Locations**
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO.
60443903

PREPARED BY:
AC

DATE:
April 2018

Figure 3-7



Camp Hero Natural Features

Wetlands

- Class 1 NYSDEC Wetlands
- Class 2 NYSDEC Wetlands
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed

Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Hydrographic Divide

Camp Hero Built Features

- Cross Section Location
- Site Groundwater Monitoring Well
- Background Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit
- Property Boundary
- Buildings
 - Existing Building
 - Former Building
- Restricted Areas
 - Area H
 - Area K
- State Park Trails
 - Battery 112 Trail
 - Battery 113 Trail
 - Paumanok Path
- Fence

NYSDEC - New York State Department of Environmental Conservation

MAP LOCATION

Note

- No wetland conditions observed within DU boundary of DU01, DU12, or DU18.
- Wetlands were evaluated only within Decision Units.

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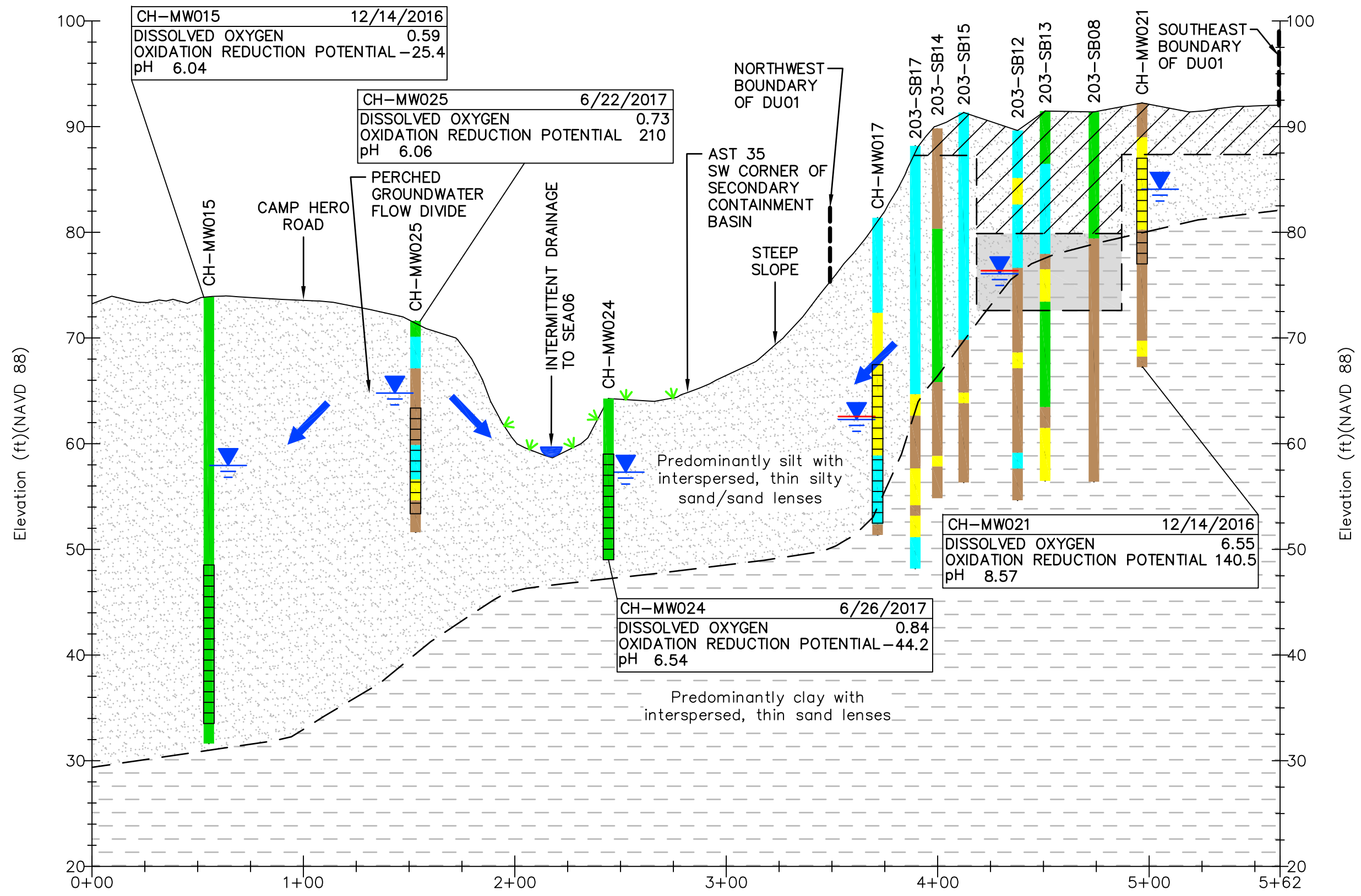
Cross Section Key

Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO: 60443903
DATE: September 2018
FIGURE: Figure 3-8

Scale: 1 inch = 150 feet

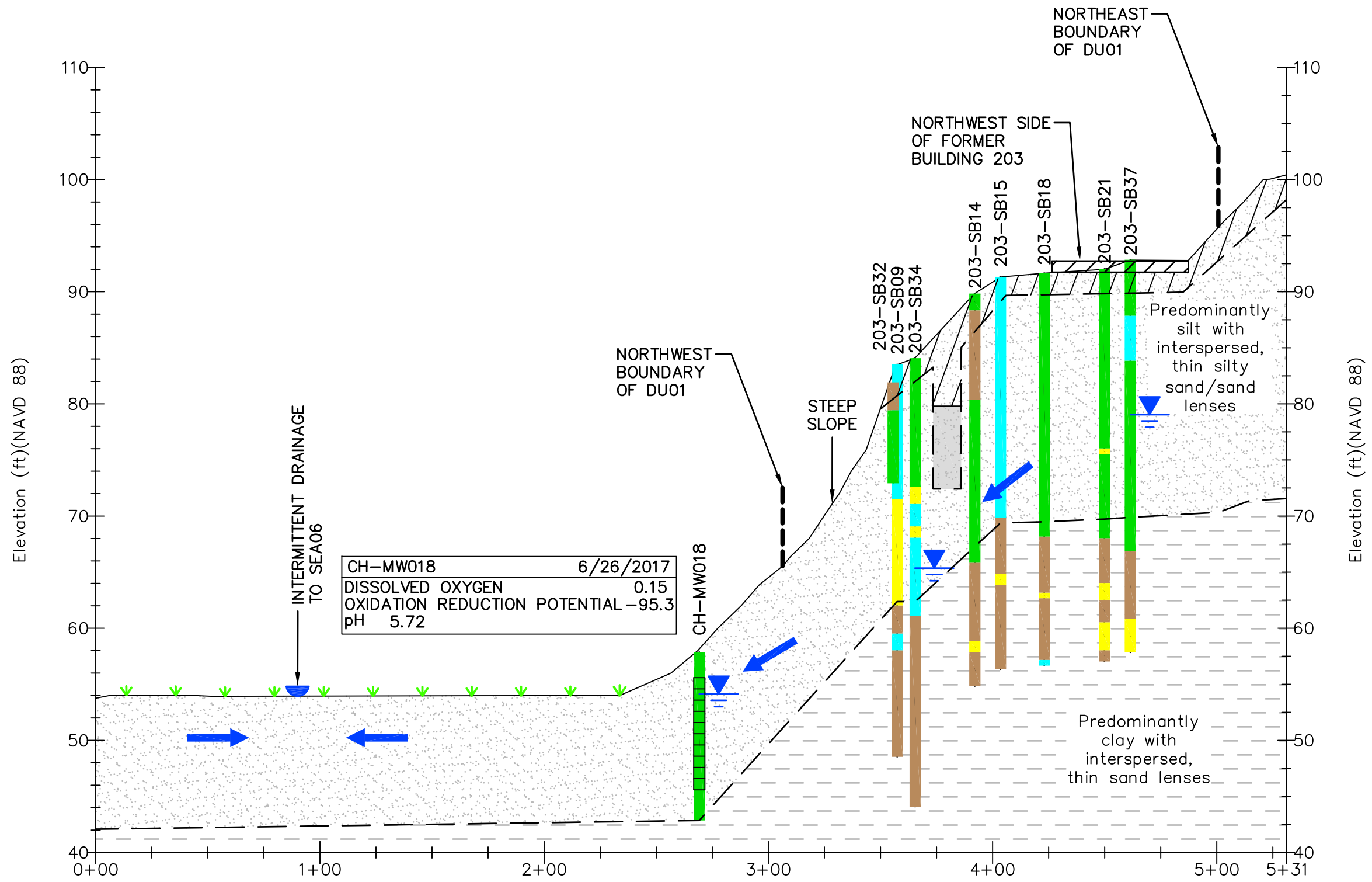
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 Project Management Initials: Designer: _____ Checked: _____ Approved: _____
 ANSIB 11" x 17"



LEGEND	
	SILT
	SILTY SAND
	SAND
	CLAY
	LOCATION OF TWO 25,000 GALLON #2 FUEL OIL USTs REMOVED IN 1993.
	EXCAVATED AND FILL MATERIAL. DISTURBED SOILS SURROUNDING FORMER BUILDING 203.
	PERCHED GROUNDWATER ELEVATION (JUNE 2017)
	GAUGED LNAPL PRESENT (JUNE 2017)
	INTERMITTENT SURFACE WATER DRAINAGE
	GROUNDWATER FLOW
	2017 SITE-DELINEATED WETLAND
	MONITORING WELL SCREEN INTERVAL

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 1, DU01, Building 203 Area to AST35/FPH Area			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-9

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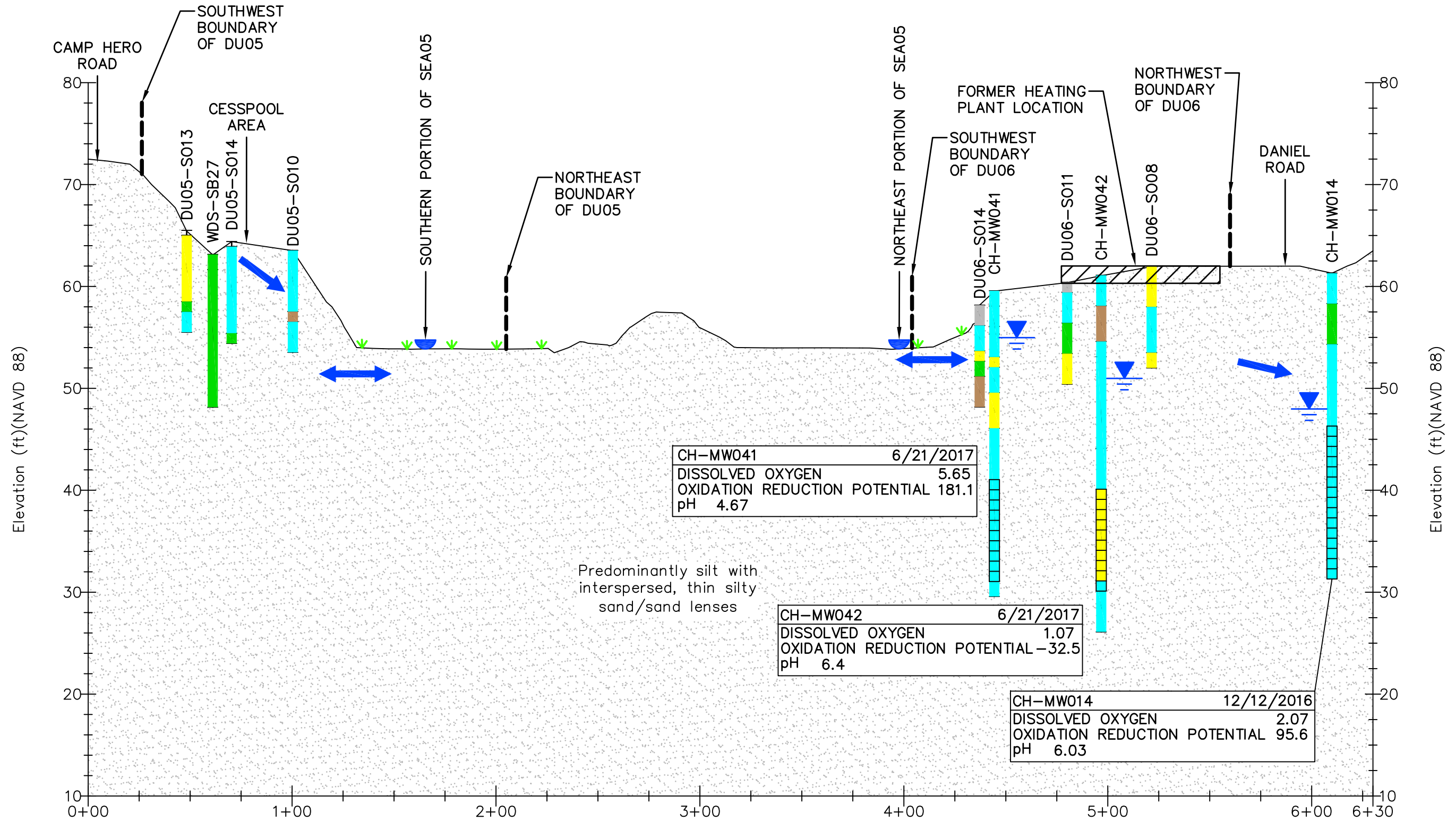


LEGEND

- SILT
- SILTY SAND
- SAND
- CLAY
- LOCATION OF TWO 25,000 GALLON #2 FUEL OIL USTs REMOVED IN 1993.
- EXCAVATED AND FILL MATERIAL. DISTURBED SOILS SURROUNDING FORMER BUILDING 203.
- PERCHED GROUNDWATER ELEVATION (JUNE 2017)
- INTERMITTENT SURFACE WATER DRAINAGE
- CLASS 2 DEC WETLAND
- MONITORING WELL SCREEN INTERVAL

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 2, DU01, Building 203 Area to DU02 Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO.	PREPARED BY:	DATE:	Figure 3-10
60443903	JB	July 2018	

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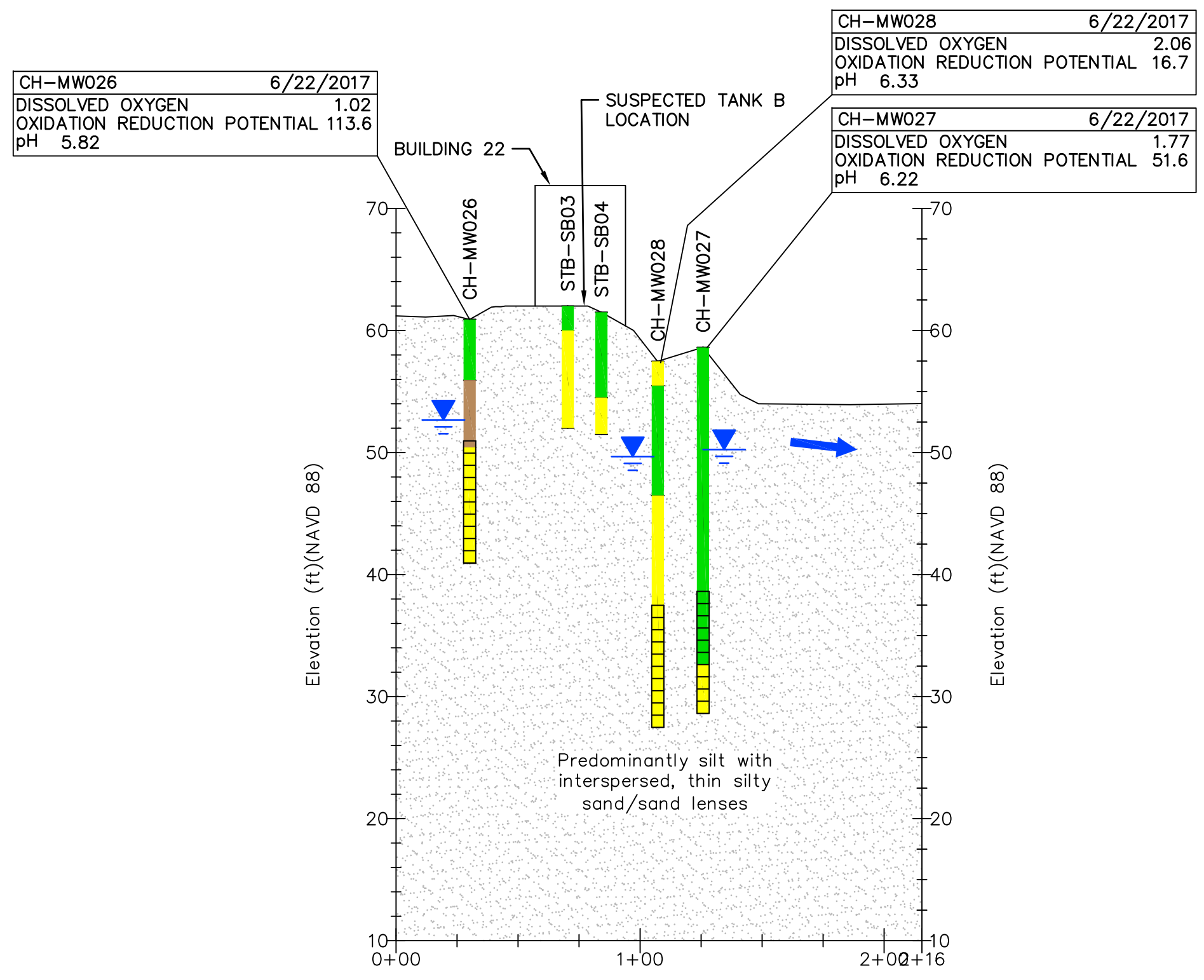








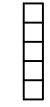
LEGEND

COAL ASH	INTERMITTENT SURFACE WATER DRAINAGE	MONITORING WELL SCREEN INTERVAL
SILT	PERCHED GROUNDWATER ELEVATION (JUNE 2017)	2017 SITE-DELINEATED WETLAND
SILTY SAND	GROUNDWATER FLOW	
SAND	GROUNDWATER - SURFACE WATER COMMUNICATION	
CLAY		

		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		Cross Section 3, DU05, WDS Cesspool Area to DU06, Former Power Plant Area Camp Hero Remedial Investigation Montauk, New York	
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-11

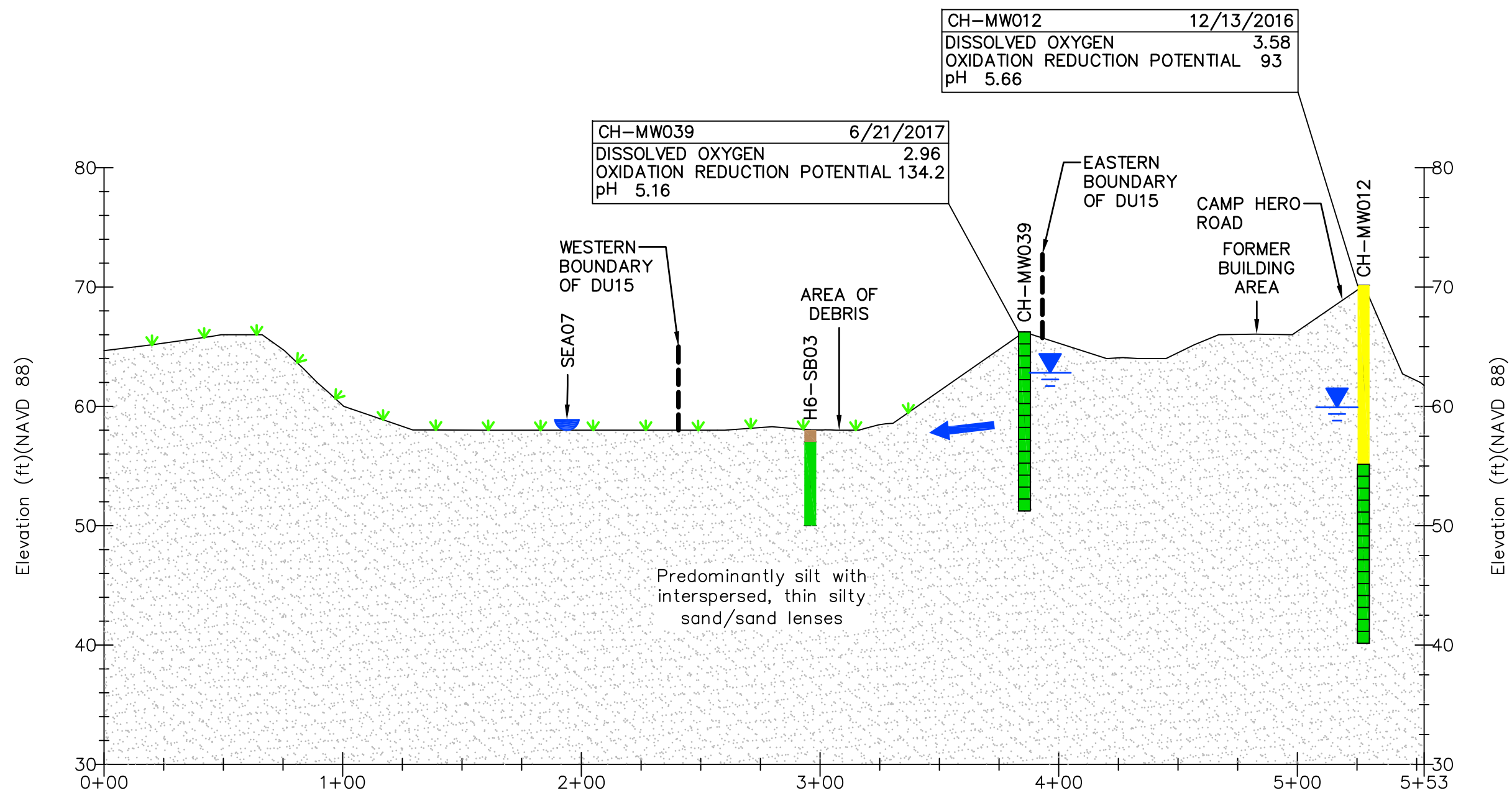
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 Project Management Initials: Designer: _____ Checked: _____ Approved: _____ ANSIB 11" x 17"



LEGEND	
	SILT
	SILTY SAND
	SAND
	CLAY
	PERCHED GROUNDWATER ELEVATION
	GROUNDWATER FLOW
	MONITORING WELL SCREEN INTERVAL

AECOM	3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901		
	Cross Section 4, STB, Suspected Tank B Camp Hero Remedial Investigation Montauk, New York		
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-12

Last saved by: BOUPDEAUJ(2018-07-17) Last Plotted: 2018-07-17
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 Project Management Initials: Designer: _____ Checked: _____ Approved: _____
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LEGEND	
█	SILT
█	SILTY SAND
█	SAND
█	CLAY
	PERCHED GROUNDWATER ELEVATION (JUNE 2017)
	INTERMITTENT SURFACE WATER DRAINAGE
	GROUNDWATER FLOW
	2017 SITE-DELINEATED WETLAND
	MONITORING WELL SCREEN INTERVAL

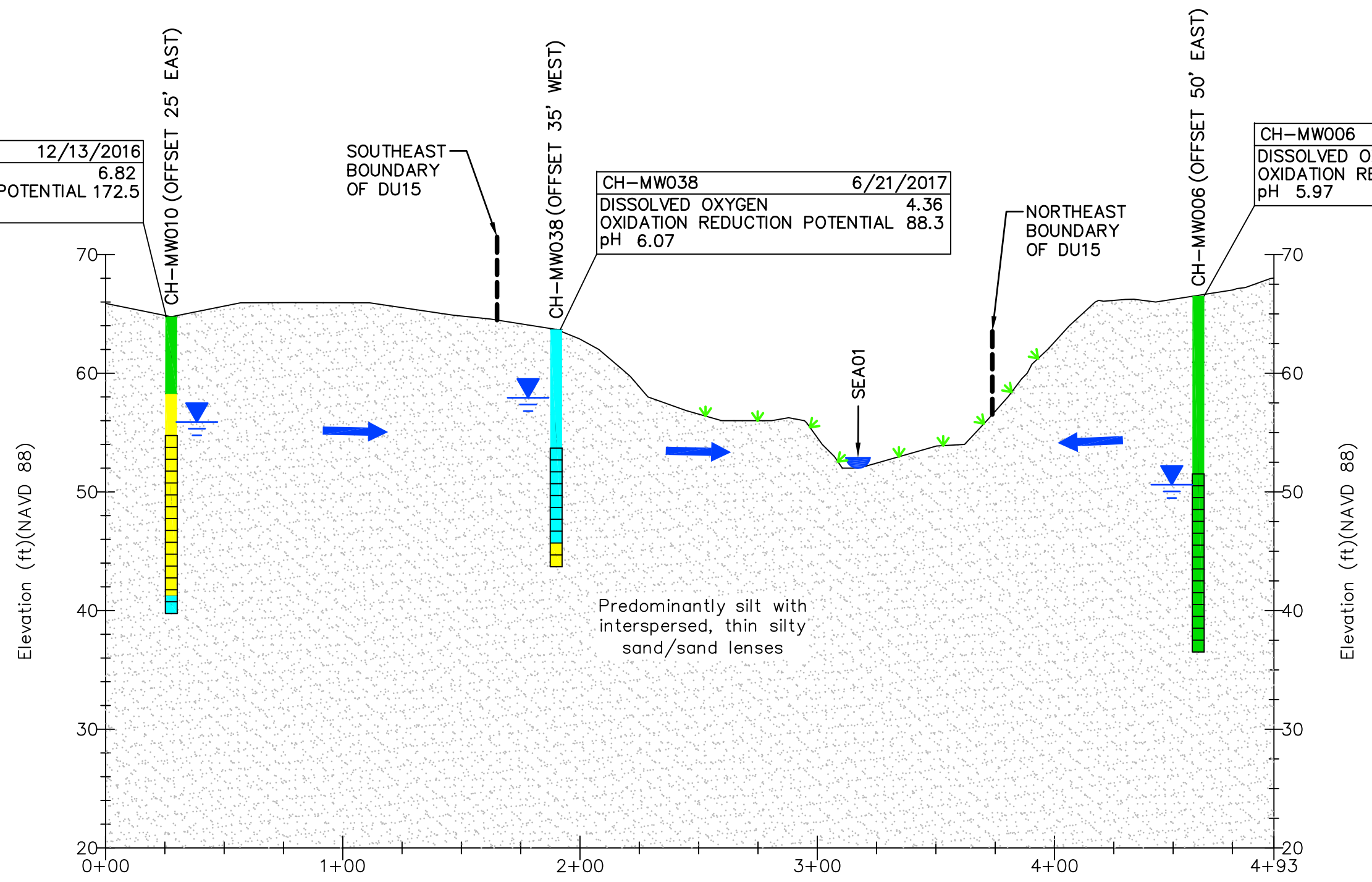
AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 5, DU15, H6 Debris Area			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-13

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 Project Management Initials: Designer: Checked: Approved: ANSIB 11" x 17"

CH-MW010	12/13/2016
DISSOLVED OXYGEN	6.82
OXIDATION REDUCTION POTENTIAL	172.5
pH	5.7

CH-MW038	6/21/2017
DISSOLVED OXYGEN	4.36
OXIDATION REDUCTION POTENTIAL	88.3
pH	6.07

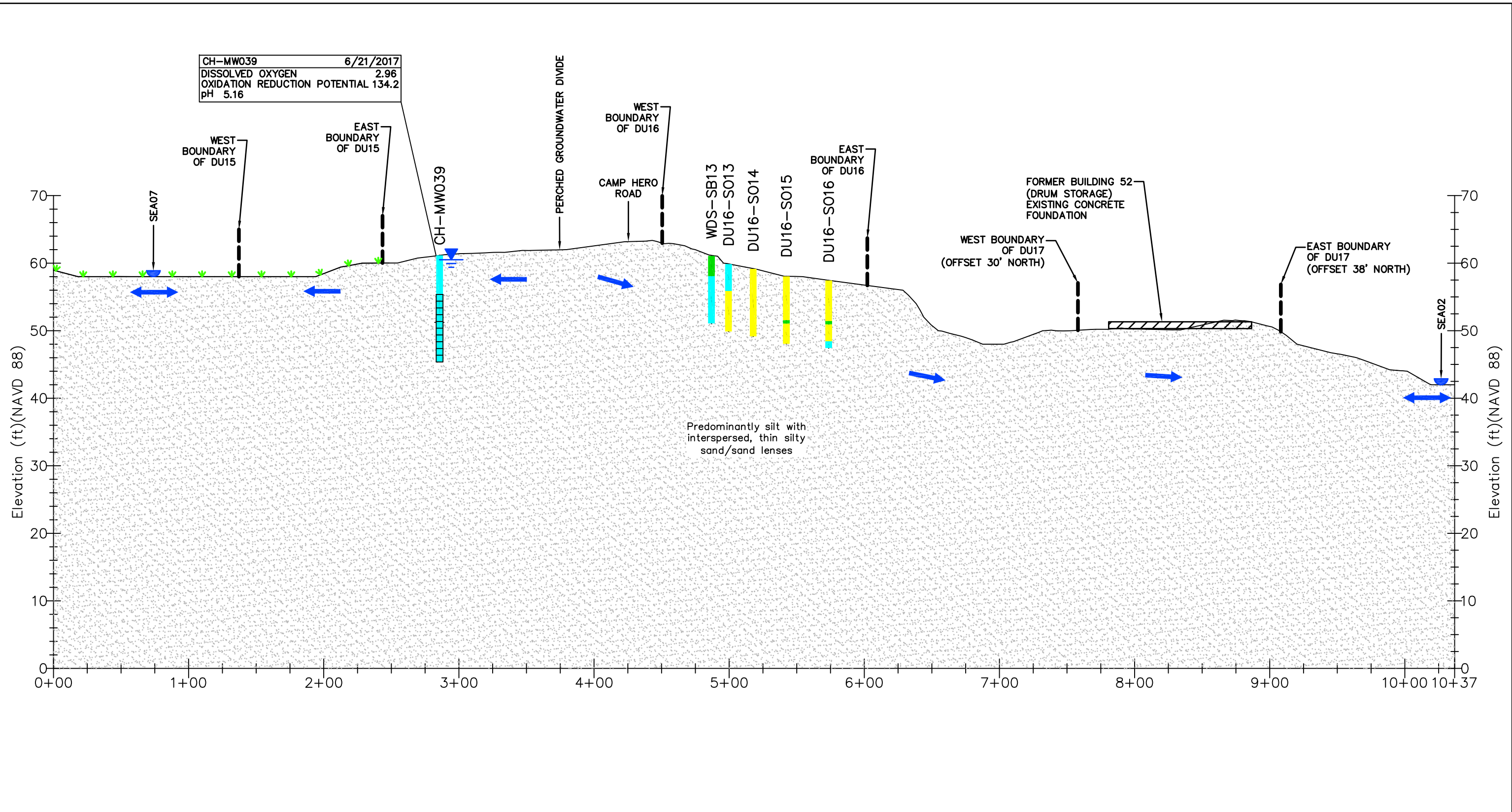
CH-MW006	12/14/2016
DISSOLVED OXYGEN	7.07
OXIDATION REDUCTION POTENTIAL	26.2
pH	5.97



LEGEND			
■ SILT		PERCHED GROUNDWATER ELEVATION (JUNE 2017)	▼▼▼ 2017 SITE-DELINEATED WETLAND
■ SILTY SAND		INTERMITTENT SURFACE WATER DRAINAGE	
■ SAND		GROUNDWATER FLOW	
■ CLAY			

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 6, DU07, H19 H20 AST/Drum Area			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-14

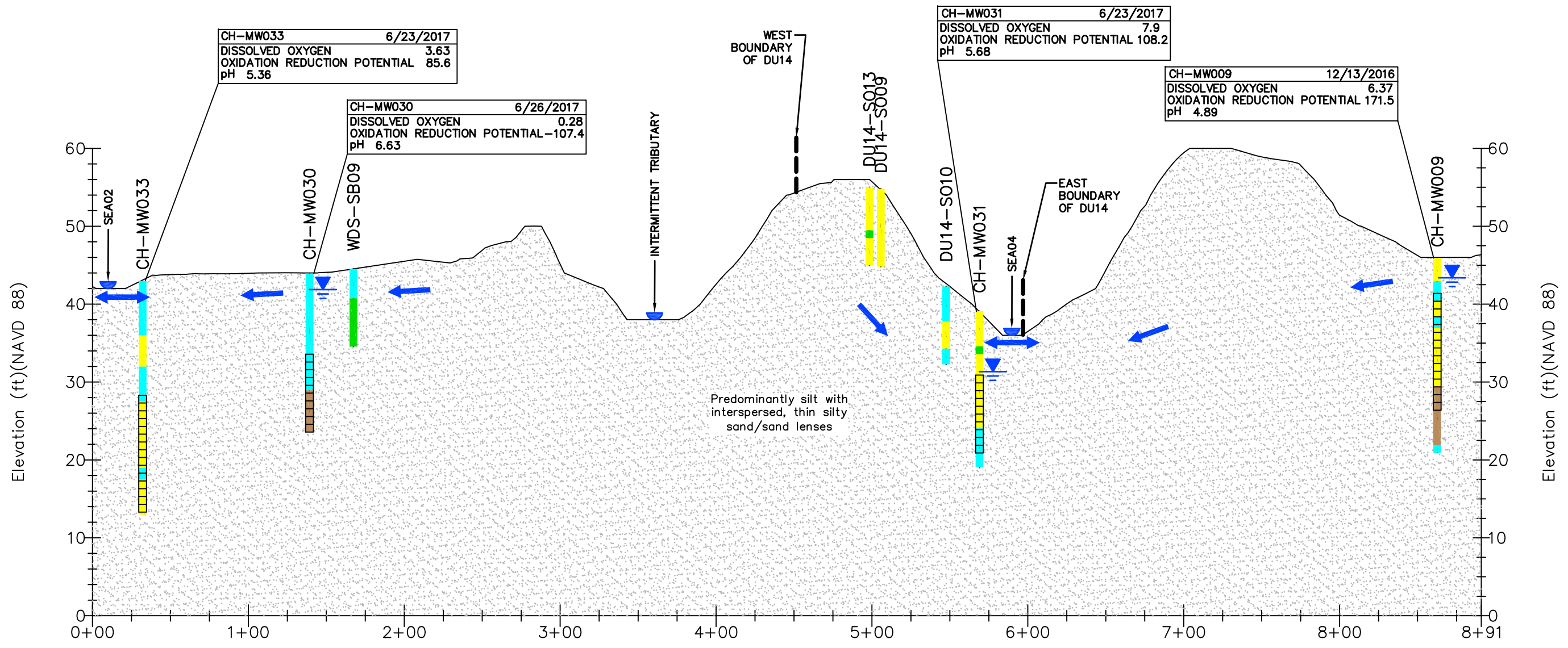
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 Project Management Initials: Designer: _____ Checked: _____ Approved: _____
 ANSIB 11" x 17"



LEGEND	PERCHED GROUNDWATER ELEVATION (JUNE 2017)	2017 SITE-DELINEATED WETLAND
SILT	INTERMITTENT SURFACE WATER DRAINAGE	MONITORING WELL SCREEN INTERVAL
SILTY SAND	GROUNDWATER FLOW	
SAND	GROUNDWATER - SURFACE WATER COMMUNICATION	
CLAY		

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 7A, DU17, H4 Debris Area; DU16, WDS Manhole Area 2 Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-15

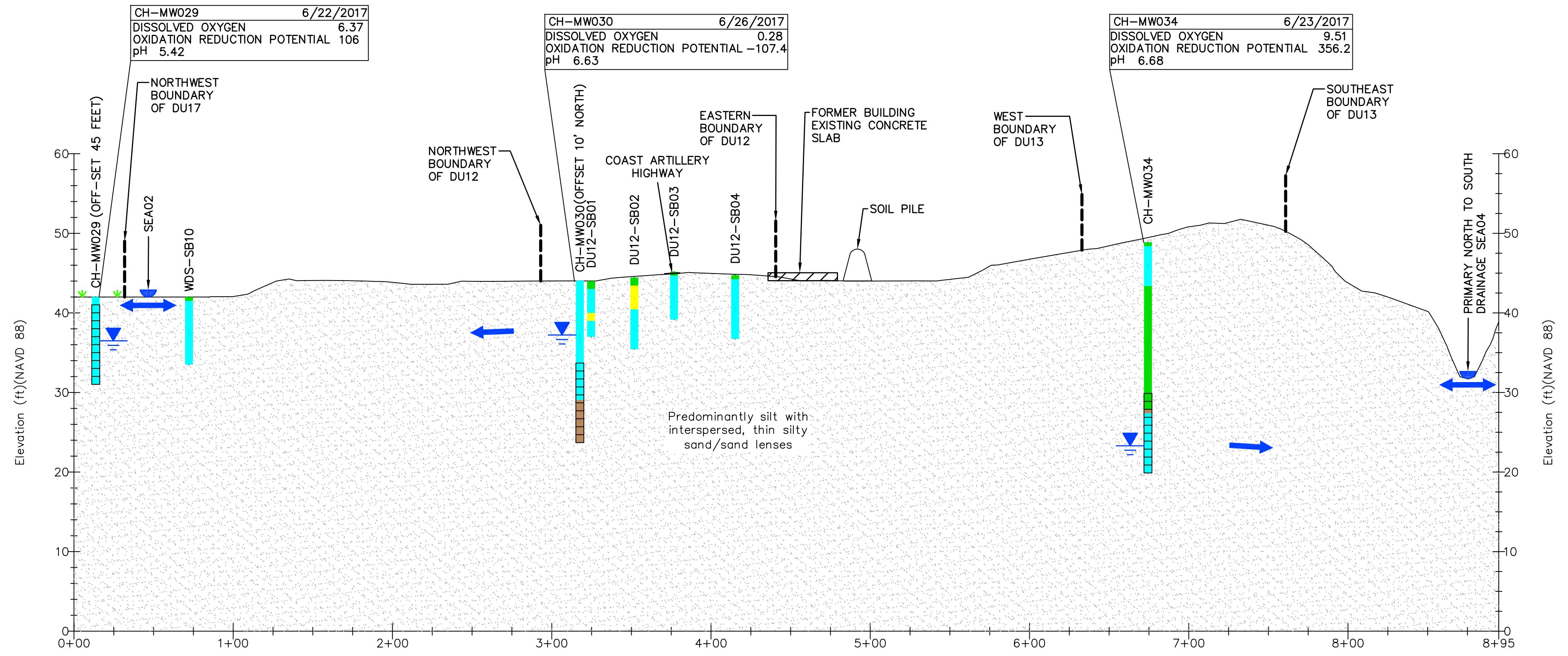
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 Project Management Initials: Designer: Checked: Approved: ANSIB 11" x 17"



LEGEND	SILT	PERCHED GROUNDWATER ELEVATION (JUNE 2017)	MONITORING WELL SCREEN INTERVAL
SILTY SAND	INTERMITTENT SURFACE WATER DRAINAGE	GROUNDWATER FLOW	
SAND	GROUNDWATER - SURFACE WATER COMMUNICATION		
CLAY			

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 7B, DU13, H14 Coal Storage; DU14, WDS Septic Tank Area Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-16

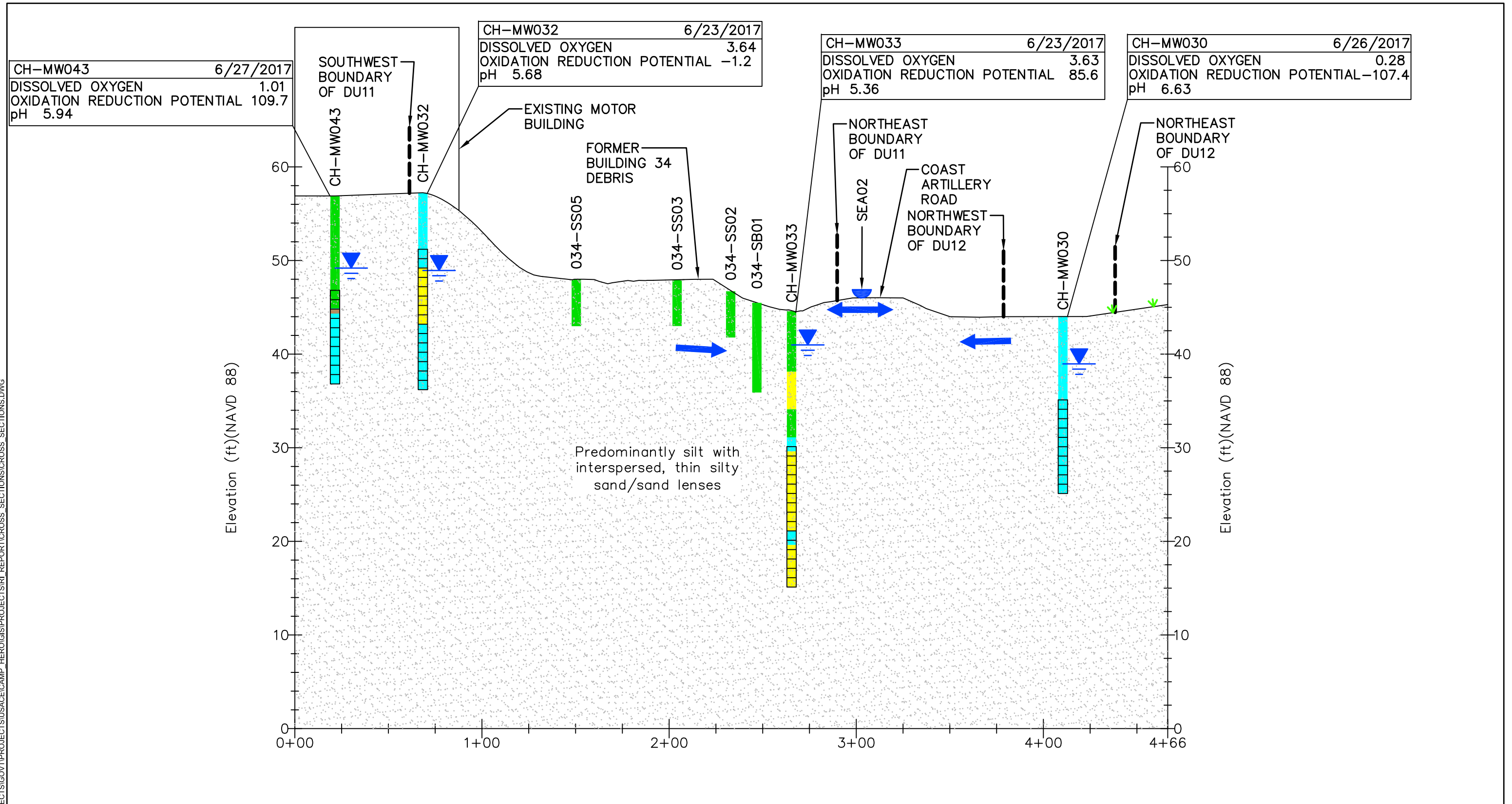
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 Project Management Initials: _____ Designer: _____ Checker: _____ Approved: _____ ANSIC 17' x 22'



LEGEND	PERCHED GROUNDWATER ELEVATION (JUNE 2017)	2017 SITE-DELINEATED WETLAND
SILT	INTERMITTENT SURFACE WATER DRAINAGE	MONITORING WELL SCREEN INTERVAL
SILTY SAND	GROUNDWATER FLOW	
SAND	GROUNDWATER - SURFACE WATER COMMUNICATION	
CLAY		

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 8, DU13, H14 Coal Storage Area; DU12, WDS Manhole Area 1; DU17, H4 Debris Area Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: June 2018	FIGURE 3-17

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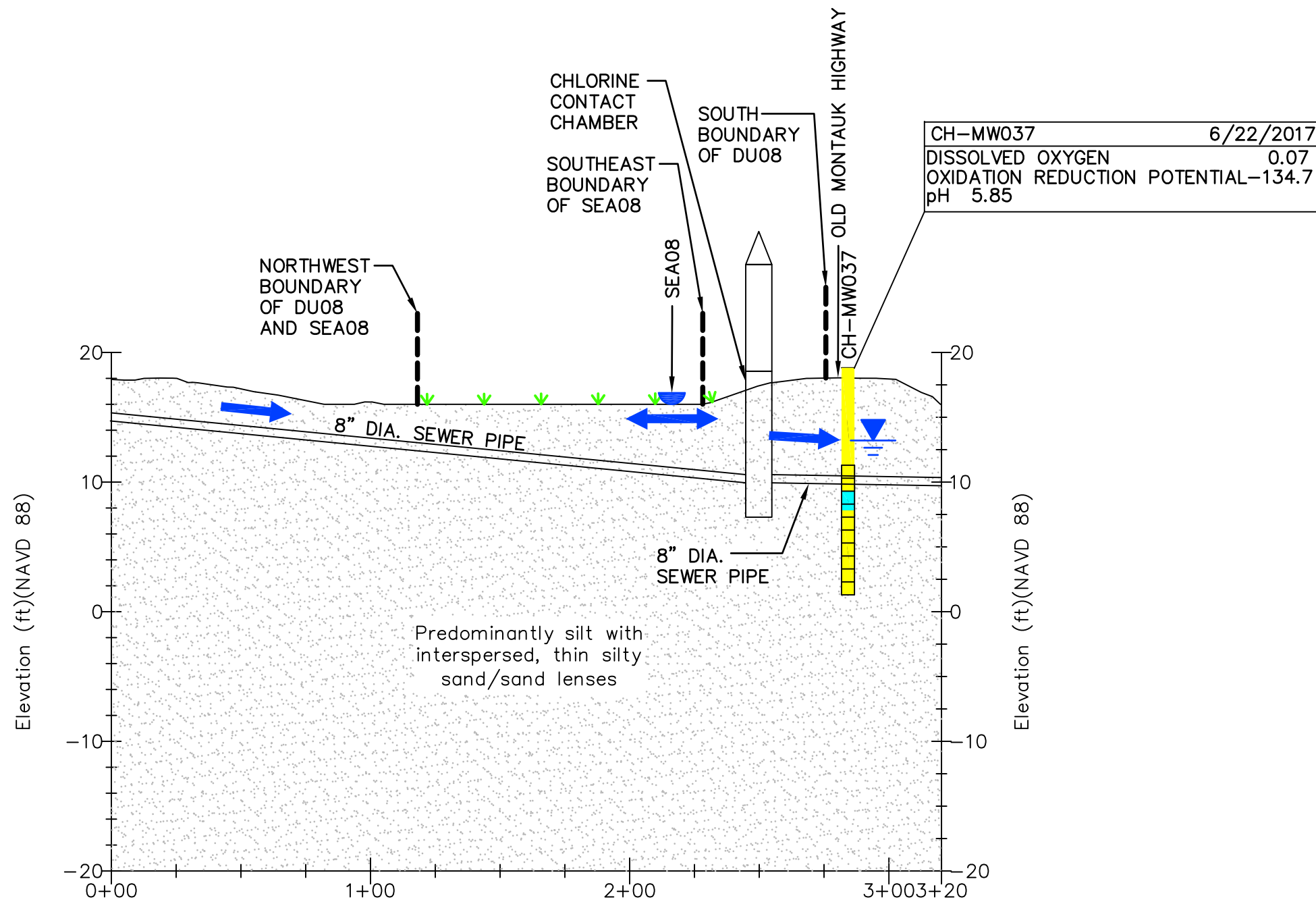


LEGEND

- SILT
- SILTY SAND
- SAND
- CLAY
- PERCHED GROUNDWATER ELEVATION (JUNE 2017)
- GROUNDWATER FLOW
- GROUNDWATER - SURFACE WATER COMMUNICATION
- 2017 SITE-DELINEATED WETLAND
- MONITORING WELL SCREEN INTERVAL

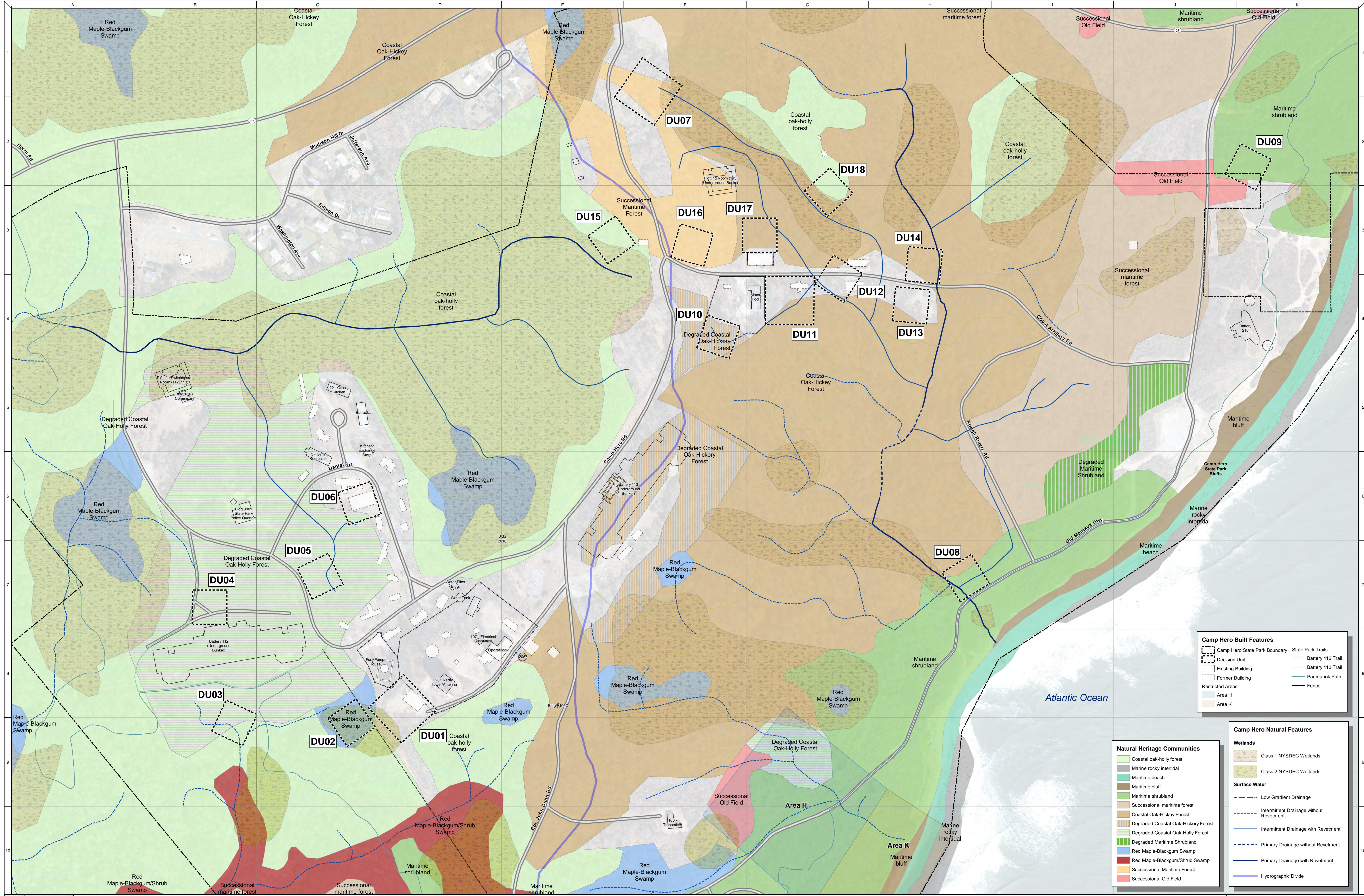
AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 9, DU11, H16 Sewage/WDS Septic Area; DU12, WDS Manhole Area 1 Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-18

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 Project Management Initials: Designer: _____ Checked: _____ Approved: _____ ANSIB 11" x 17"



LEGEND	
■ SILT	PERCHED GROUNDWATER ELEVATION (JUNE 2017)
■ SILTY SAND	INTERMITTENT SURFACE WATER DRAINAGE
■ SAND	GROUNDWATER FLOW
■ CLAY	GROUNDWATER - SURFACE WATER COMMUNICATION
	2017 SITE-DELINEATED WETLAND
	MONITORING WELL SCREEN INTERVAL

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section 10, DU08, WDS Chlorine Contact Chamber Area Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 3-19



Camp Hero Built Features

- Camp Hero State Park Boundary
- Decision Unit
- Existing Building
- Former Building
- Restricted Areas
- Area H
- Area K
- State Park Trails
- Battery 112 Trail
- Battery 113 Trail
- Paumanok Path
- Fence

Camp Hero Natural Features

Wetlands

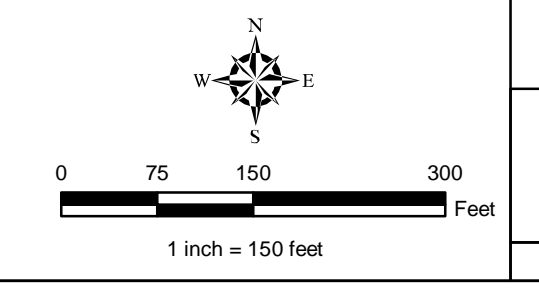
- Class 1 NYSDEC Wetlands
- Class 2 NYSDEC Wetlands

Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Hydrographic Divide

Natural Heritage Communities

- Coastal oak-holly forest
- Marine rocky intertidal
- Maritime beach
- Maritime bluff
- Maritime shrubland
- Successional maritime forest
- Coastal Oak-Hickory Forest
- Degraded Coastal Oak-Hickory Forest
- Degraded Maritime Shrubland
- Red Maple-Blackgum Swamp
- Red Maple-Blackgum/Shrub Swamp
- Successional Maritime Forest
- Successional Old Field

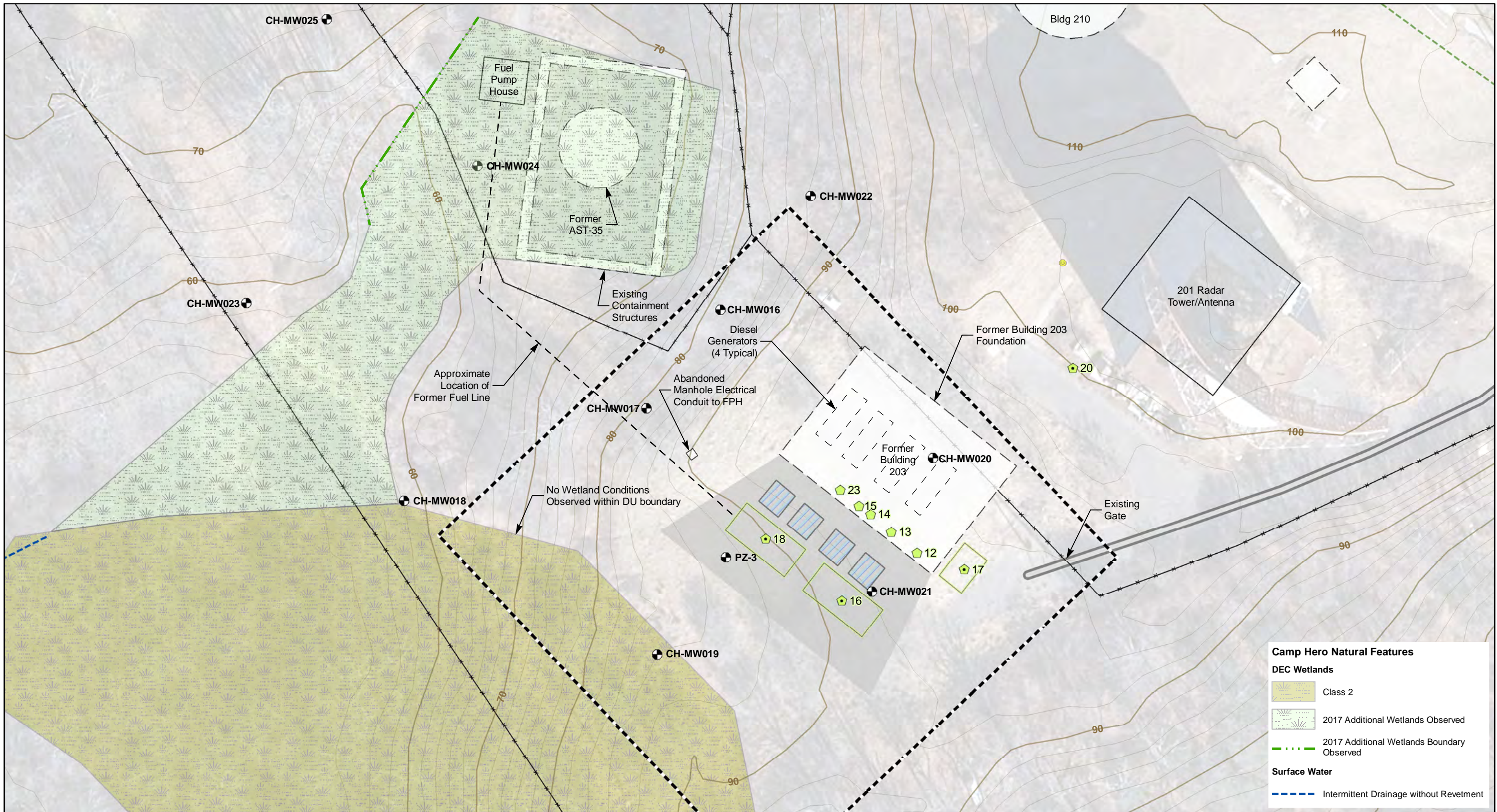


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Significant Plant Communities Map
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO: 60443903 PREPARED BY: JS DATE: September 2018 **Figure 3-20**



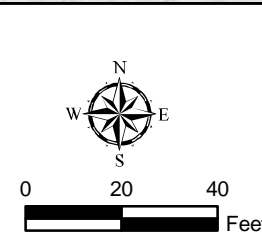
Camp Hero Built Features

- Groundwater Monitoring Well
- Decision Unit
- Storage Tanks**
 - AST (closed)
 - Former UST (closed)
- Fence
- Secondary WDS Line
- Cesspool

Topographic Contours

- 10 ft
- 2 ft

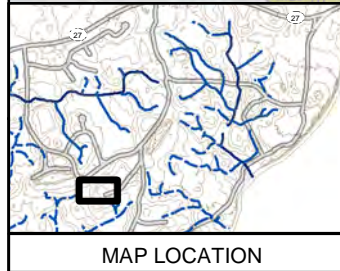
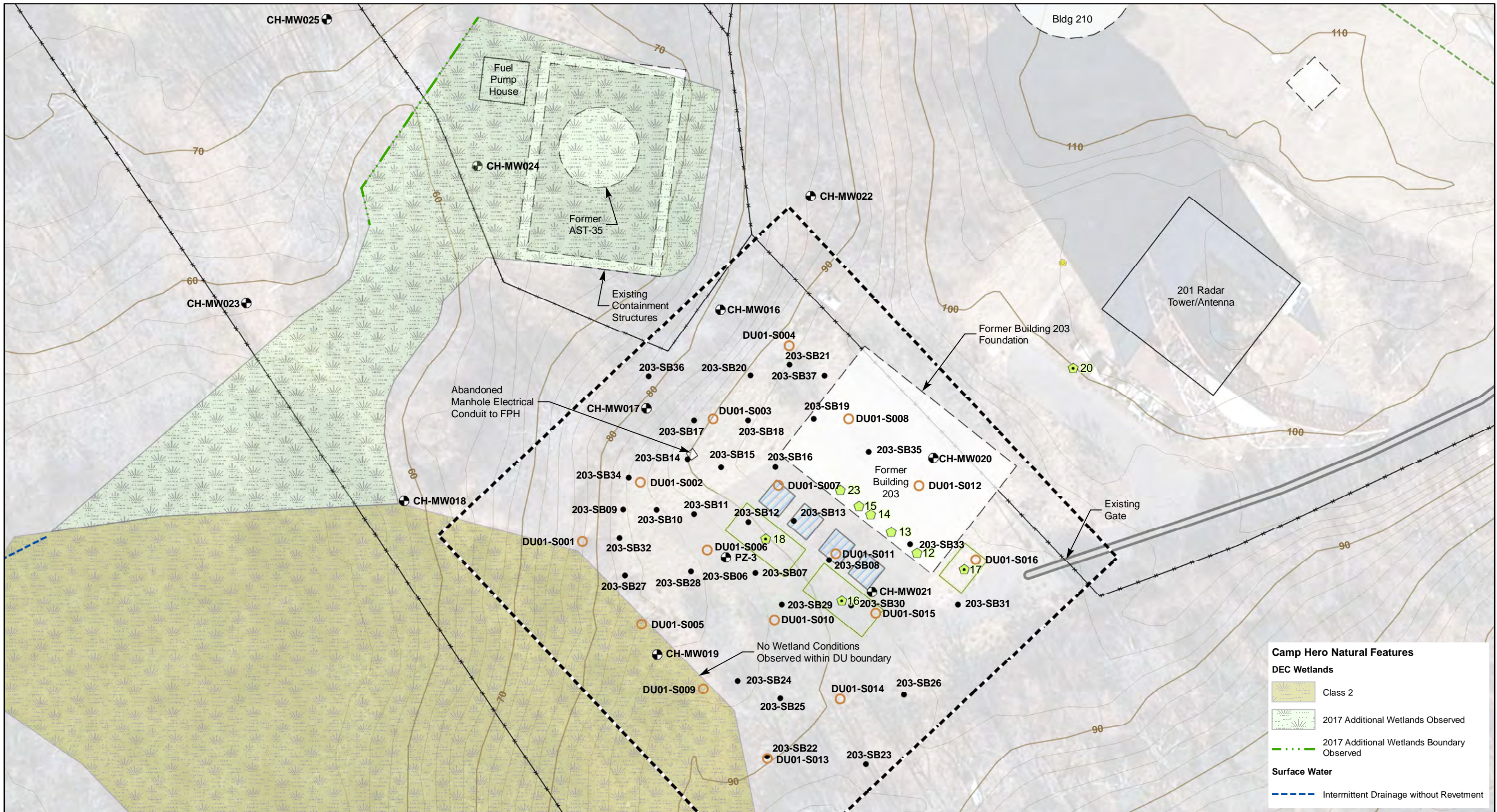
- Former Radiators
- UST Excavation
- Former UST Footprint



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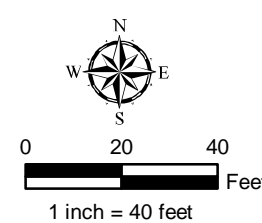
Historic Site Features
DU01, Building 203 Area
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-1a
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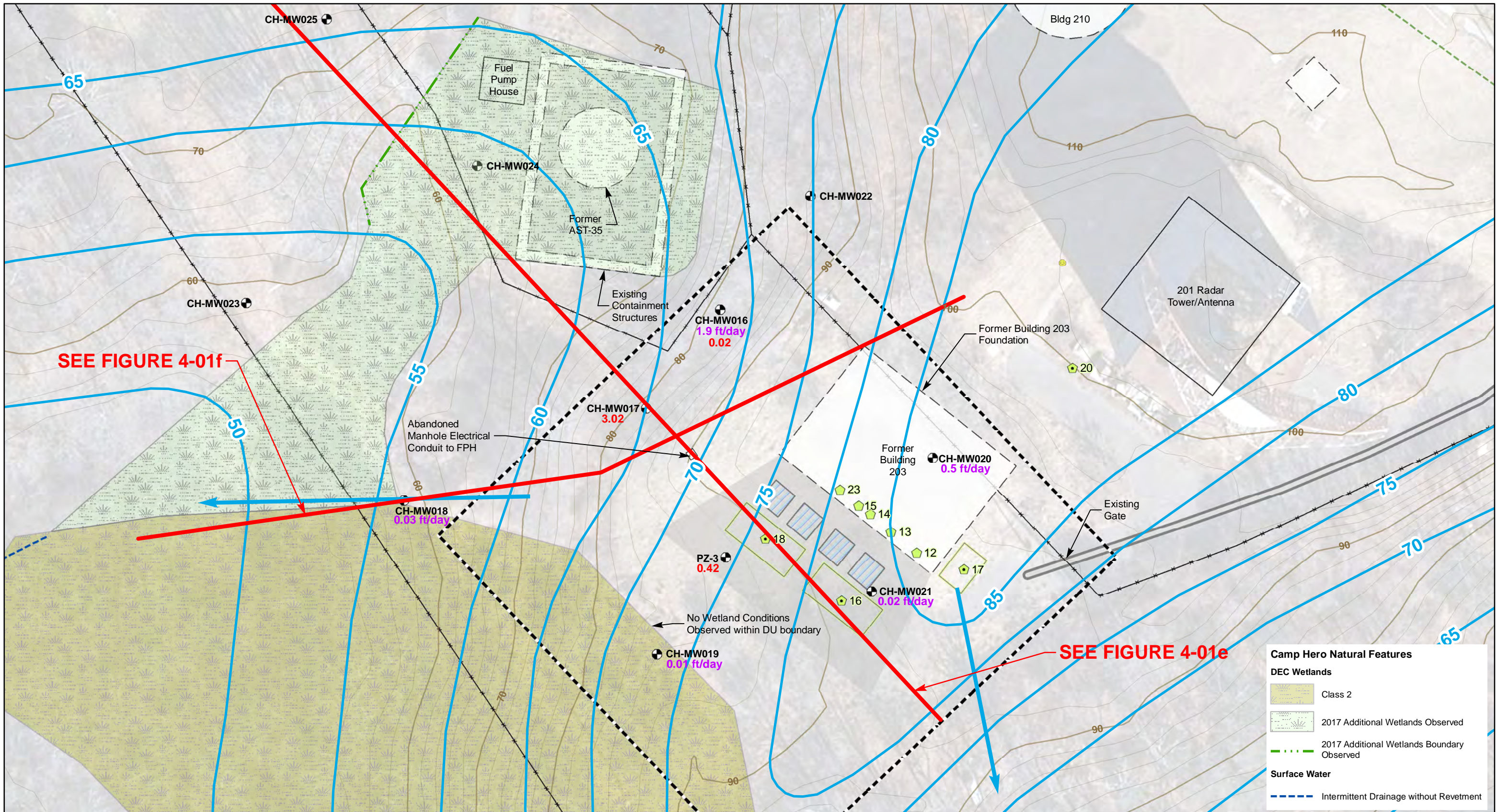


Camp Hero Built Features

- Phase II Surface Soil Sample Location
- Phase III Subsurface Soil Sample Location (1-10 Feet)
- ⊕ Groundwater Monitoring Well
- ⊠ Decision Unit
- Storage Tanks**
 - ▲ AST (closed)
 - ▲ Former UST (closed)
 - Fence
 - Secondary WDS Line
- Topographic Contours**
 - 10 ft
 - 2 ft
- Cesspool**
 -
- Former Radiators**
 - ▨
- UST Excavation**
 - ▨
- Former UST Footprint**
 - ▨



AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
RI Sampling Locations DU01, Building 203 Area			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-1b



SEE FIGURE 4-01f

SEE FIGURE 4-01e



Camp Hero Built Features

- Cross Section Location
- Groundwater Monitoring Well
- Decision Unit

Storage Tanks

- AST (closed)
- Former UST (closed)
- Fence
- Secondary WDS Line

Cesspool

- Cesspool
- Topographic Contours**
- 10 ft
- 2 ft

Former Radiators

- Former Radiators
- UST Excavation
- Former UST Footprint

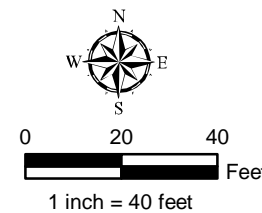
Groundwater Contours (June 2017)

- Groundwater Contours (June 2017)
- Groundwater Flow
- 2.2 ft/day Hydraulic Conductivity
- 1.22 LNAPL Thickness (September 2018)

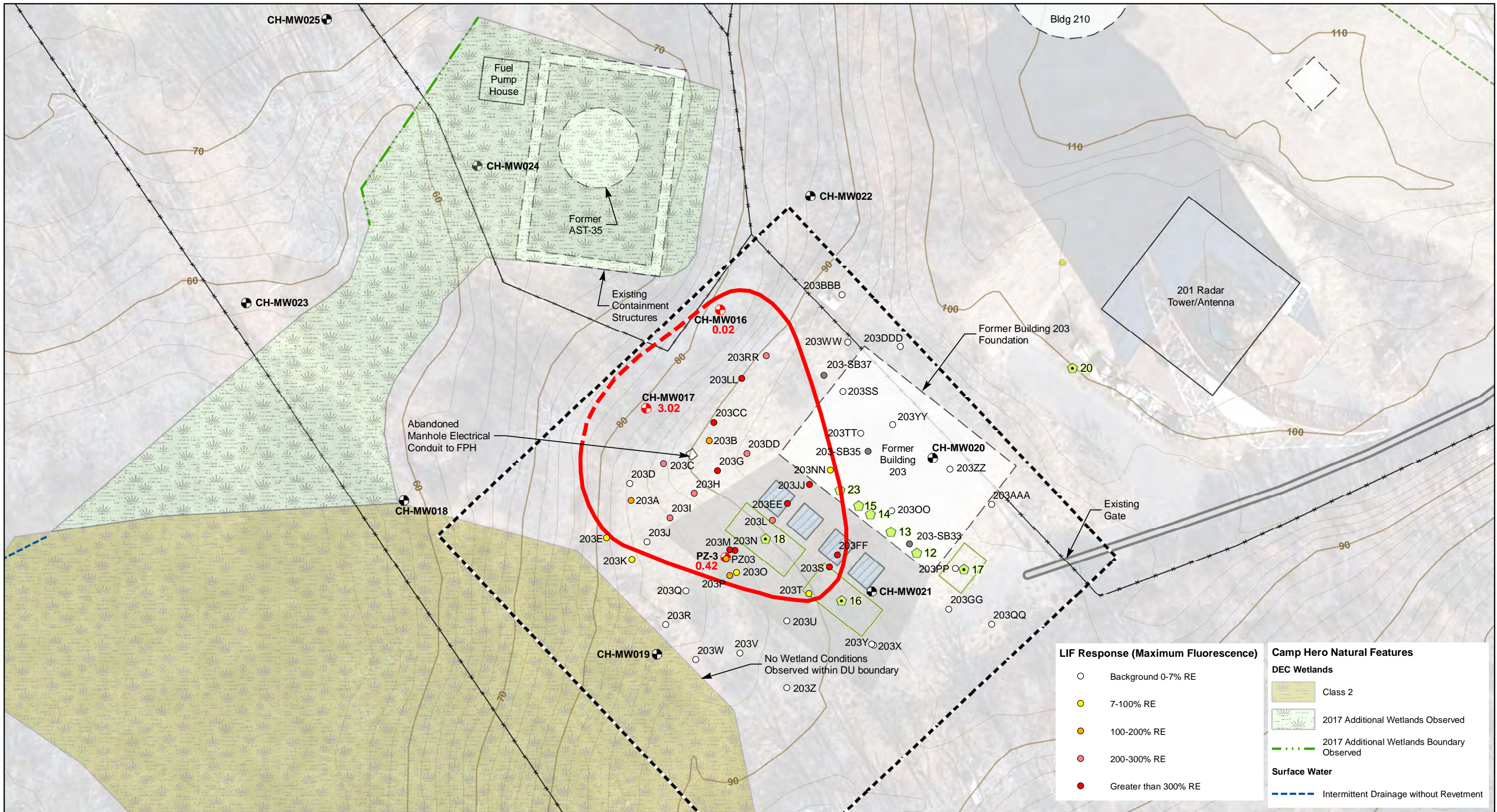


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Arlington, VA 22201
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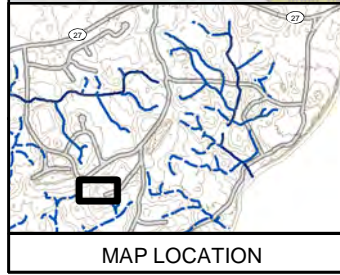
Monitoring Well Network and Hydrogeologic Conditions, DU01, Building 203 Area
Camp Hero Remedial Investigation
Montauk, New York



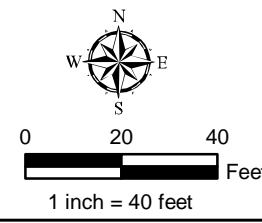
PROJECT NO. 60443903	PREPARED BY: JB	DATE: October 2018	Figure 4-1c
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LIF Response (Maximum Fluorescence)		Camp Hero Natural Features	
○	Background 0-7% RE		Class 2
●	7-100% RE		2017 Additional Wetlands Observed
●	100-200% RE		2017 Additional Wetlands Boundary Observed
●	200-300% RE		Surface Water
●	Greater than 300% RE		Intermittent Drainage without Revetment

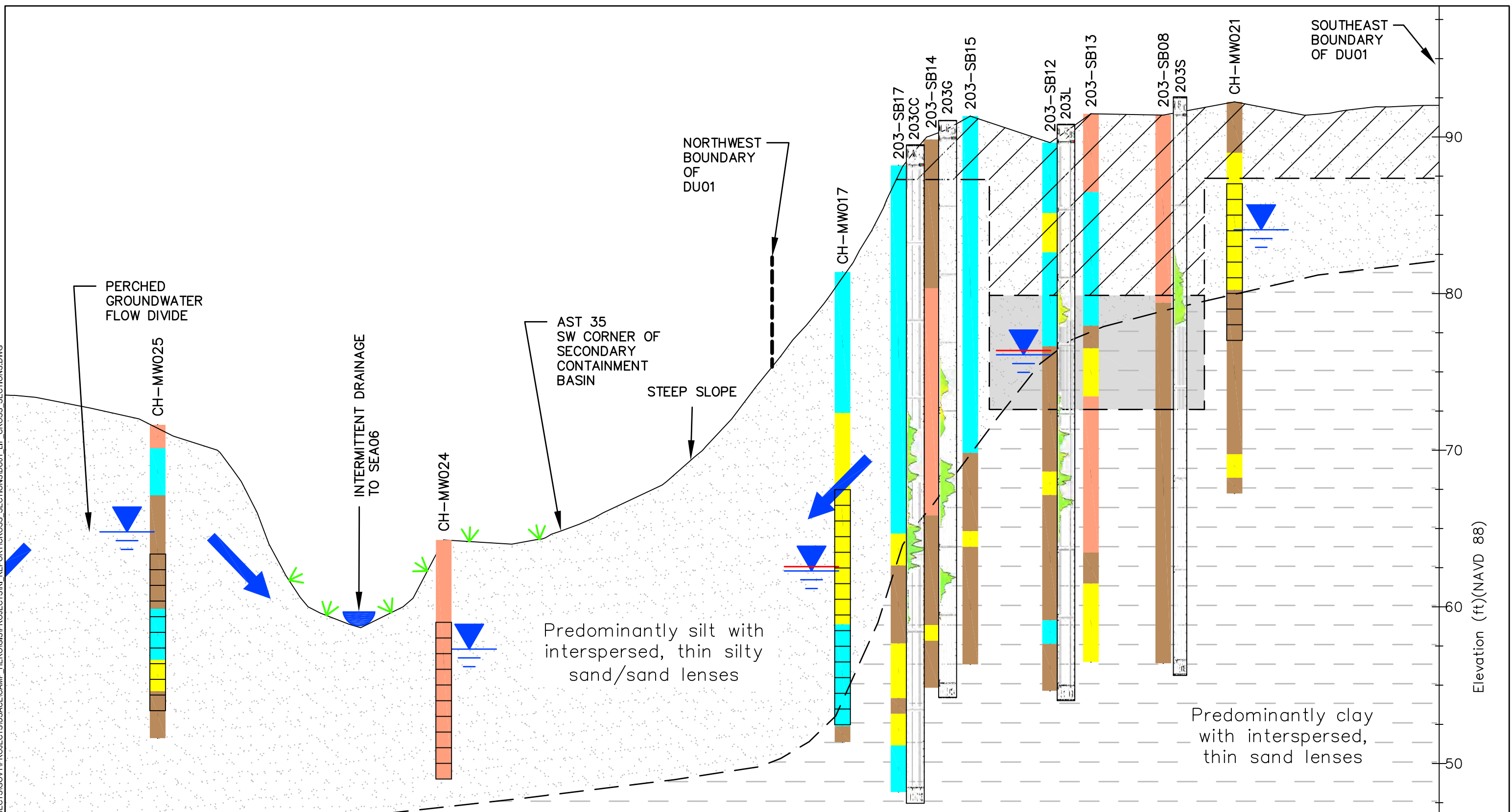


Camp Hero Built Features		Topographic Contours		Former UST Footprint		Groundwater Monitoring Well with LNAPL	
	Groundwater Monitoring Well		Fence		Former UST Footprint		Groundwater Monitoring Well with LNAPL
	Decision Unit		Secondary WDS Line		2.2 ft LNAPL Thickness (September 2018)		No NAPL Present
	Storage Tanks		Cesspool		Extent of LNAPL		Approximate Extent of LNAPL
	AST (closed)		Former Radiators		UST Excavation		
	Former UST (closed)						



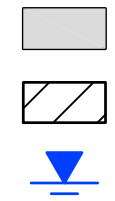
AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Extent of LNAPL and LIF Screening Results, DU01, Building 203 Area			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: October 2018	Figure 4-1d

Last saved by: BOUPDEAUJ(2018-07-16) Last Plotted: 2018-07-16
 Filename: \USCHL1\PP001\DATA\PROJECTS\GOVT\PROJECTS\USACE\CAMP_HERO\GIS\PROJECTS\REPORT\CROSS_SECTIONS\DU01_LIF_CROSS_SECTIONS.DWG
 Project Management Initials: Designer: _____ Checked: _____ Approved: _____ ANSIB 11" x 17"

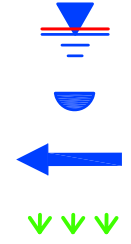


LEGEND

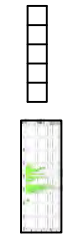
- SILT
- SILTY SAND
- SAND
- CLAY



- LOCATION OF TWO 25,000 GALLON #2 FUEL OIL USTs REMOVED IN 1993.
- EXCAVATED AND FILL MATERIAL, DISTURBED SOILS SURROUNDING FORMER BUILDING 203.
- PERCHED GROUNDWATER ELEVATION (JUNE 2017)

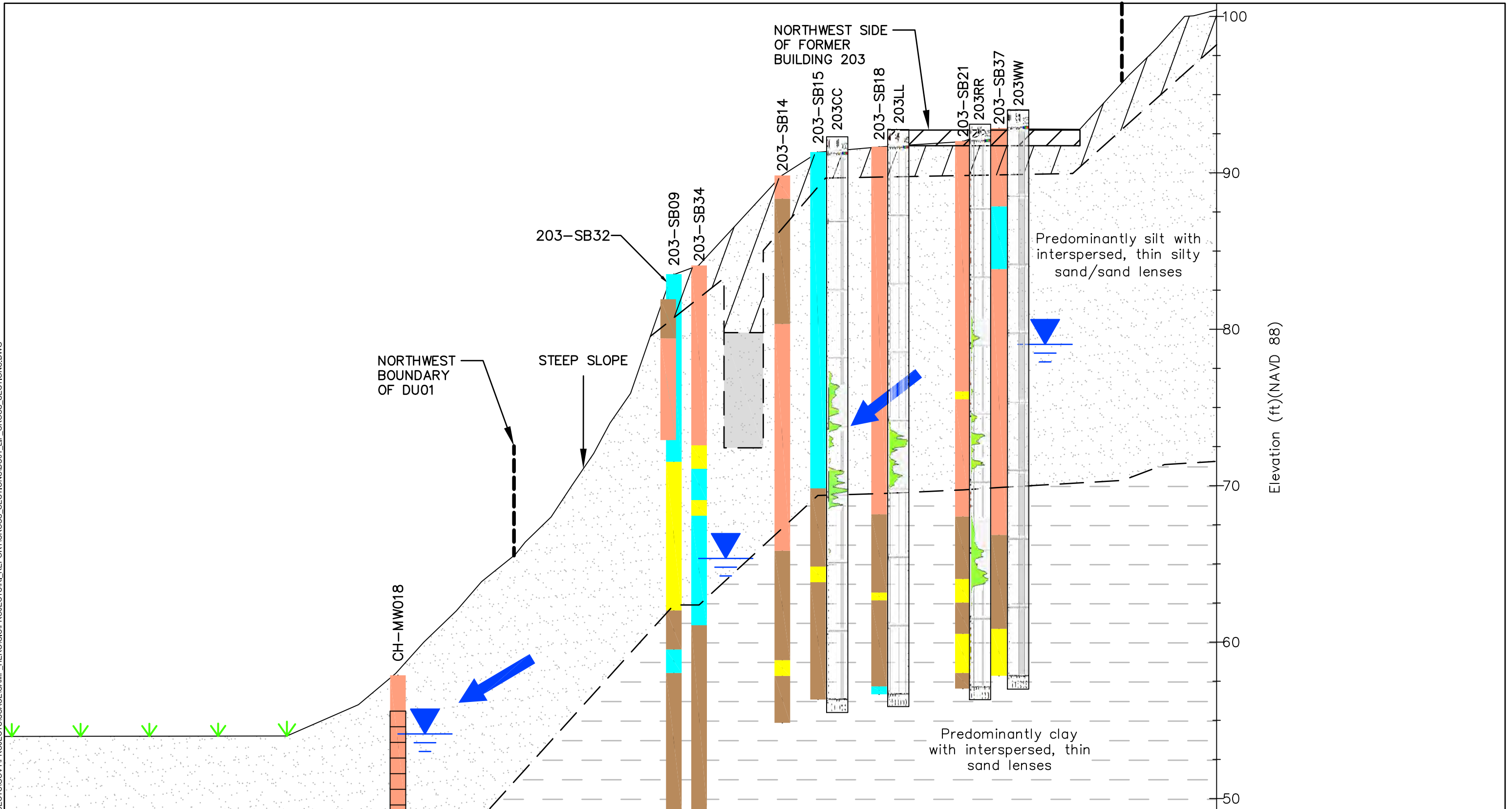


- GAUGED LNAPL PRESENT (JUNE 2017)
- INTERMITTENT SURFACE WATER DRAINAGE
- GROUNDWATER FLOW
- 2017 SITE-DELINEATED WETLAND



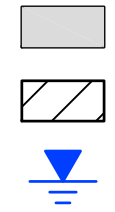
- MONITORING WELL SCREEN INTERVAL
- LIF SIGNAL (%RE)

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
Cross Section, DU01, Building 203 Area (North-South)			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: April 2018	Figure 4-1e

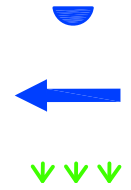


LEGEND

- SILT
- SILTY SAND
- SAND
- CLAY



- LOCATION OF TWO 25,000 GALLON #2 FUEL OIL USTs REMOVED IN 1993.
- EXCAVATED AND FILL MATERIAL. DISTURBED SOILS SURROUNDING FORMER BUILDING 203.
- PERCHED GROUNDWATER ELEVATION (JUNE 2017)



- INTERMITTENT SURFACE WATER DRAINAGE
- GROUNDWATER FLOW
- 2017 SITE-DELINEATED WETLAND



- MONITORING WELL SCREEN INTERVAL
- LIF SIGNAL (%RE)

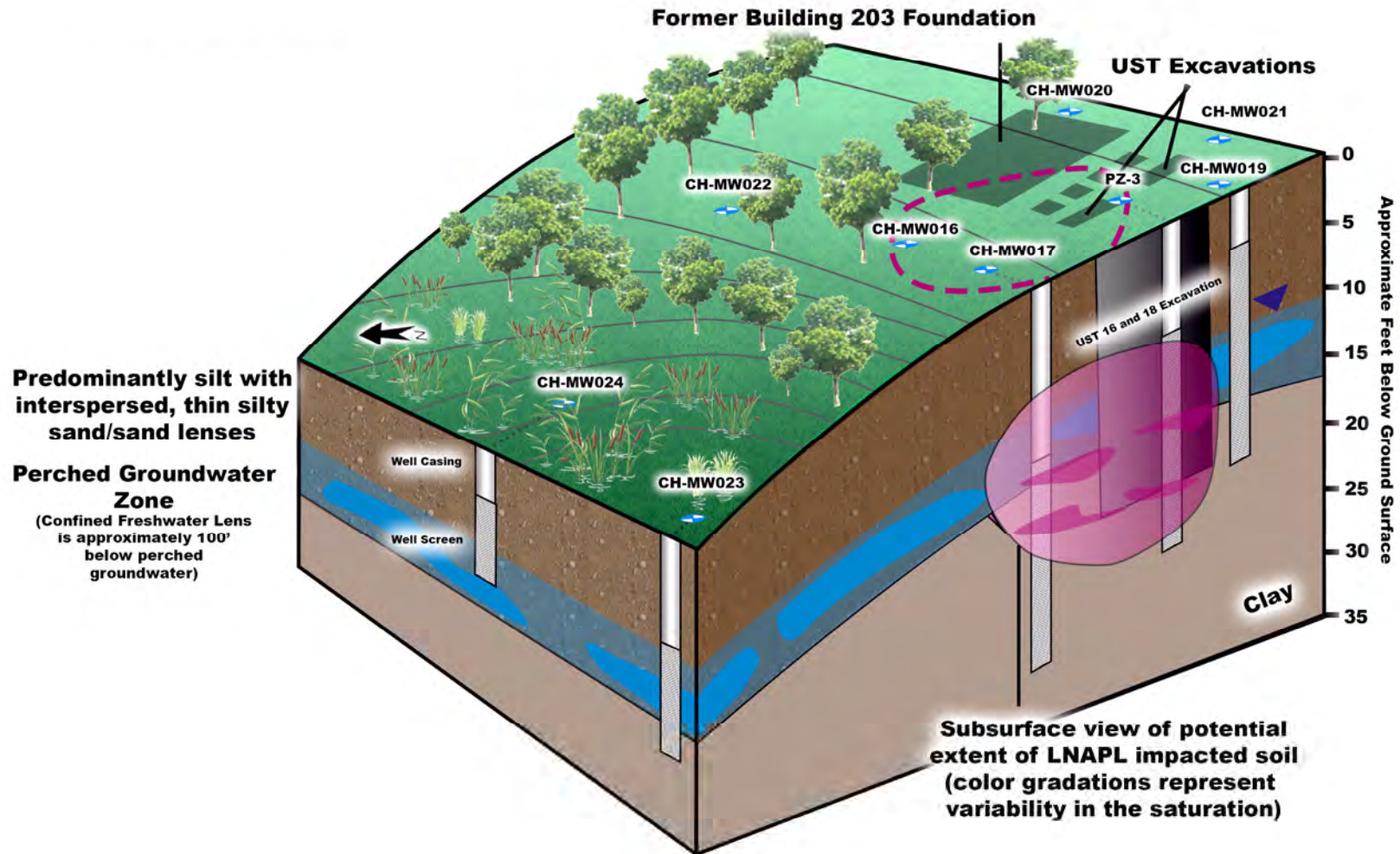


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Cross Section, DU01, Building 203 Area (East-West)

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 Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-1f
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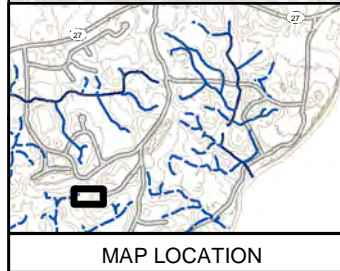
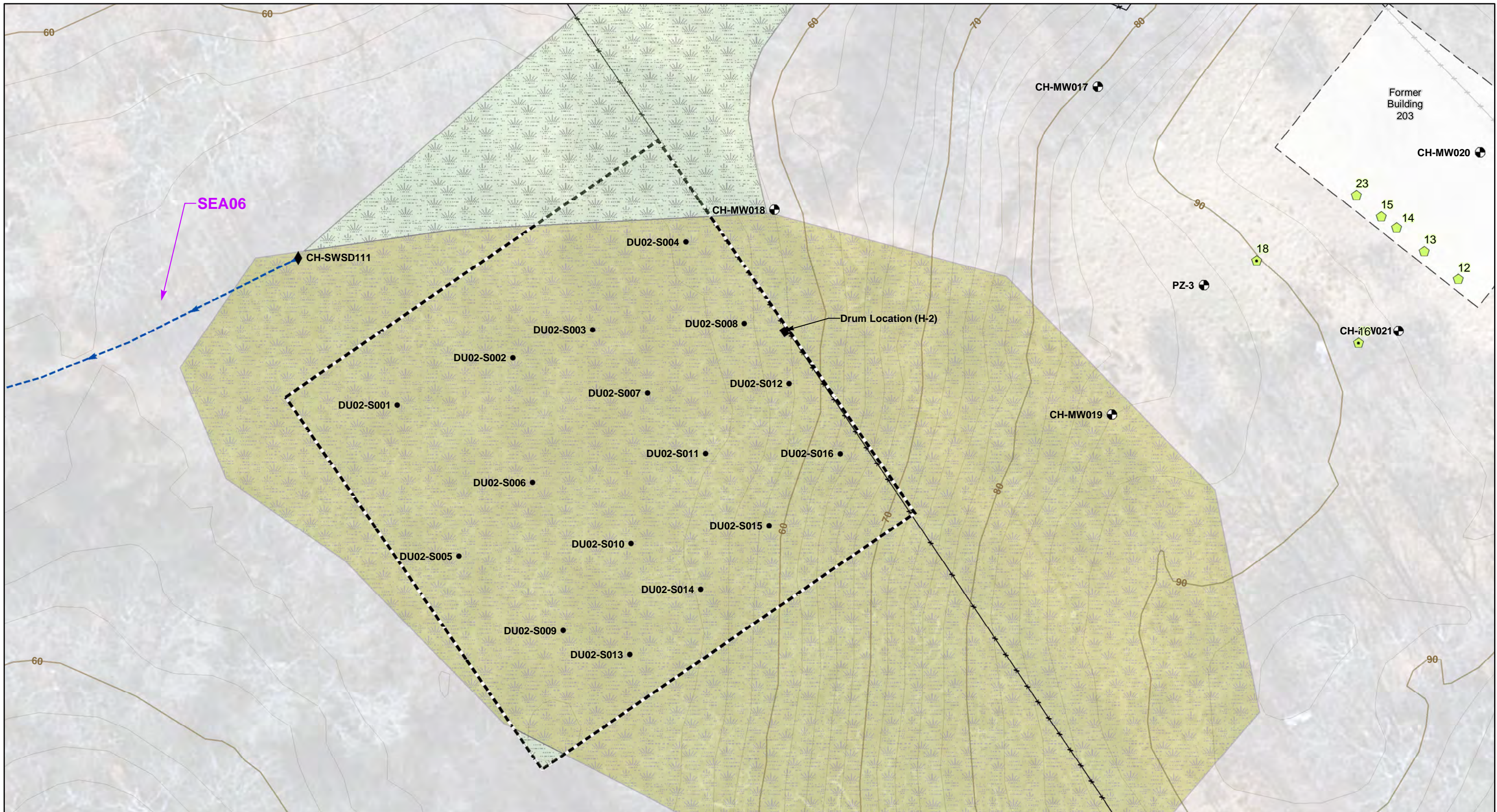
Conceptual Site Model
LNAPL Impacted Soil and Subsurface Features
DU01, Building 203 Area
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO.
60443903

PREPARED BY:
JB

DATE:
October 2018

Figure 4-1g



Camp Hero Built Features

- Phase III Surface Soil Sample Location
- ◆ Surface Water and Sediment Sampling Location
- ⊕ Groundwater Monitoring Well



Storage Tanks

- ⬠ AST (closed)
- ⬠ UST (closed)
- Fence

Topographic Contours

- 10 ft
- 2 ft

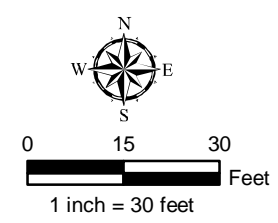
Camp Hero Natural Features

DEC Wetlands

- Class 2
- 2017 Additional Wetlands Observed

Surface Water

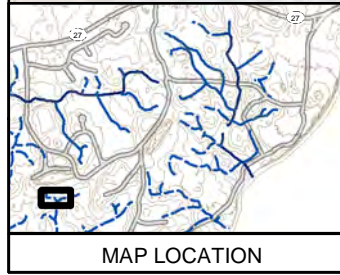
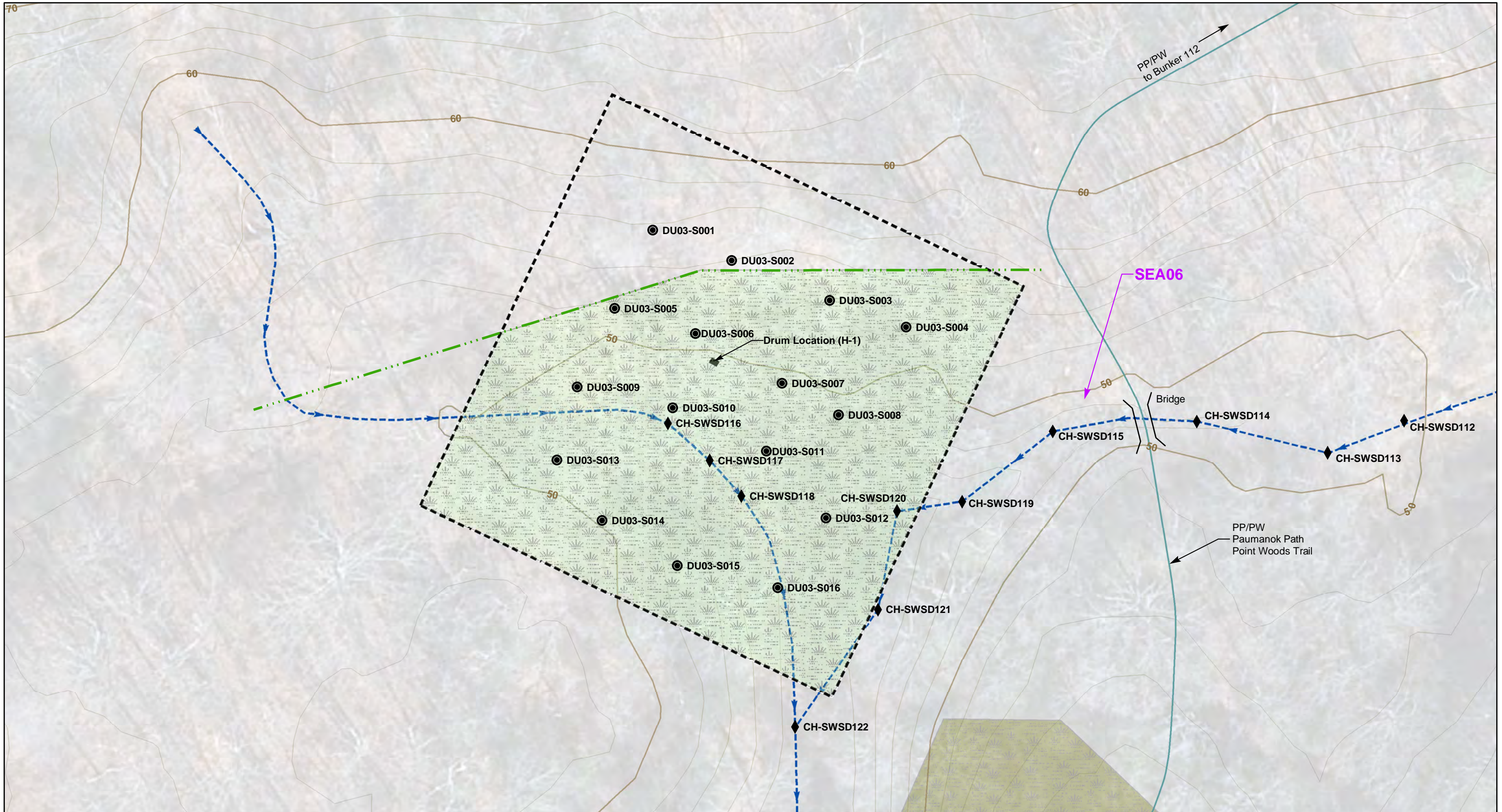
- Intermittent Drainage without Revetment



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**RI Sampling Locations
DU02, H2 Drum Area**
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-2a
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Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Phase III Subsurface Soil Sample Location (1-2 Feet)
- ◆ Phase III Surface Water and Sediment Sampling Location
- ⬜ Decision Unit

Camp Hero Natural Features

State Park Trails

- Paumanok Path

Topographic Contours

- 10 ft
- 2 ft

DEC Wetlands

- Class 2
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed

— Intermittent Drainage without Revetment

Note
Wetlands were evaluated only within Decision Units.

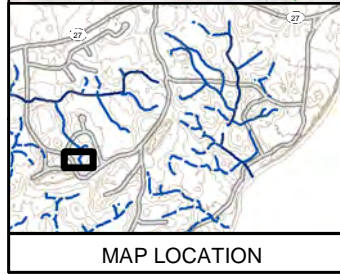
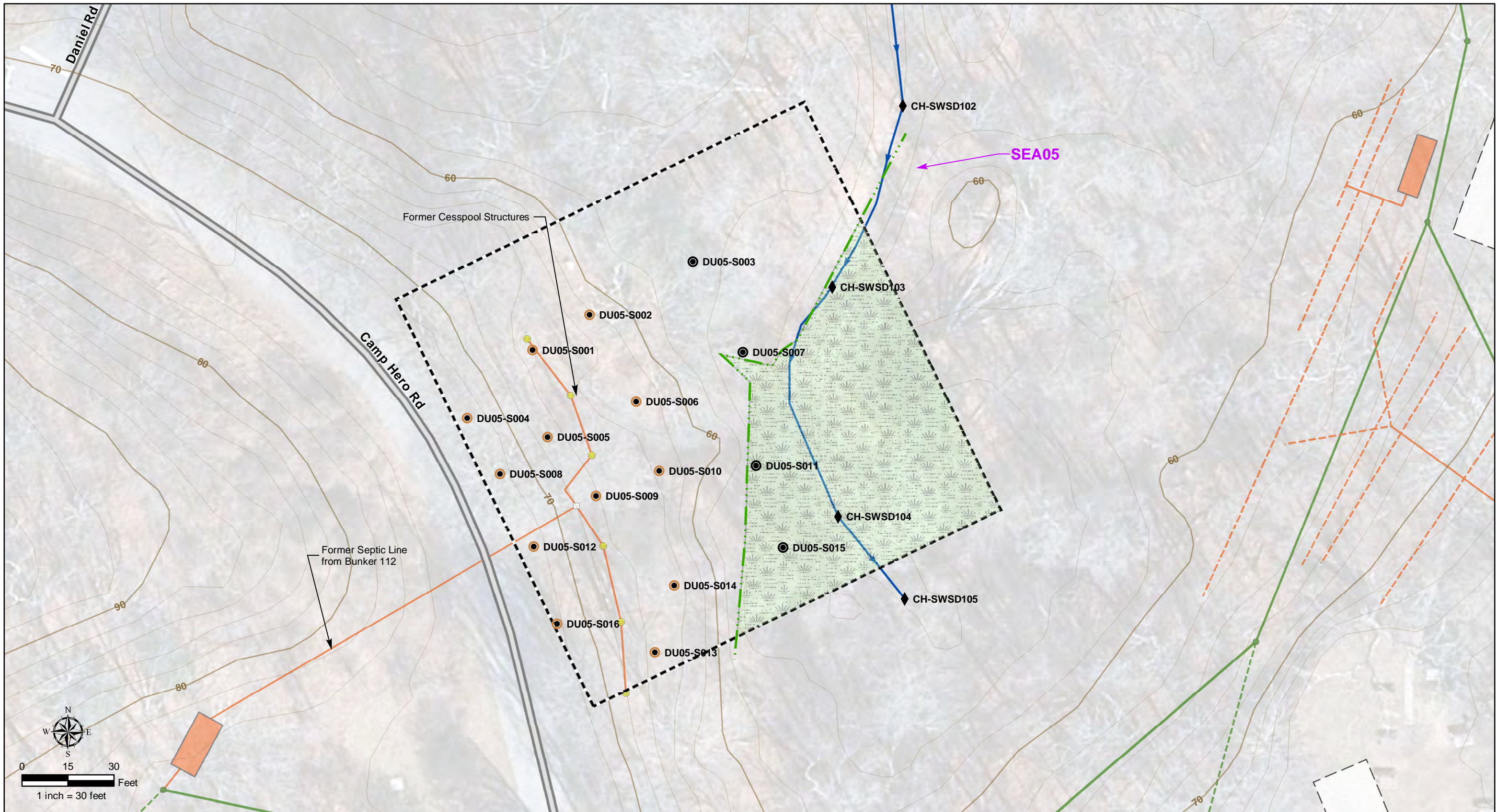
0 15 30
Feet
1 inch = 30 feet

		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		RI Sampling Locations DU03, H1 Drum Area Camp Hero Remedial Investigation Montauk, New York	
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-3a



Camp Hero Built Features		
● Phase III Surface Soil Sample Location	Storage Tanks	Topographic Contours
⬜ Decision Unit	🟩 UST (closed)	— 10 ft
	— State Park Trails	— 2 ft
	— Battery 112 Trail	

AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
RI Sampling Locations DU04, H18 Drum Area			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-4a



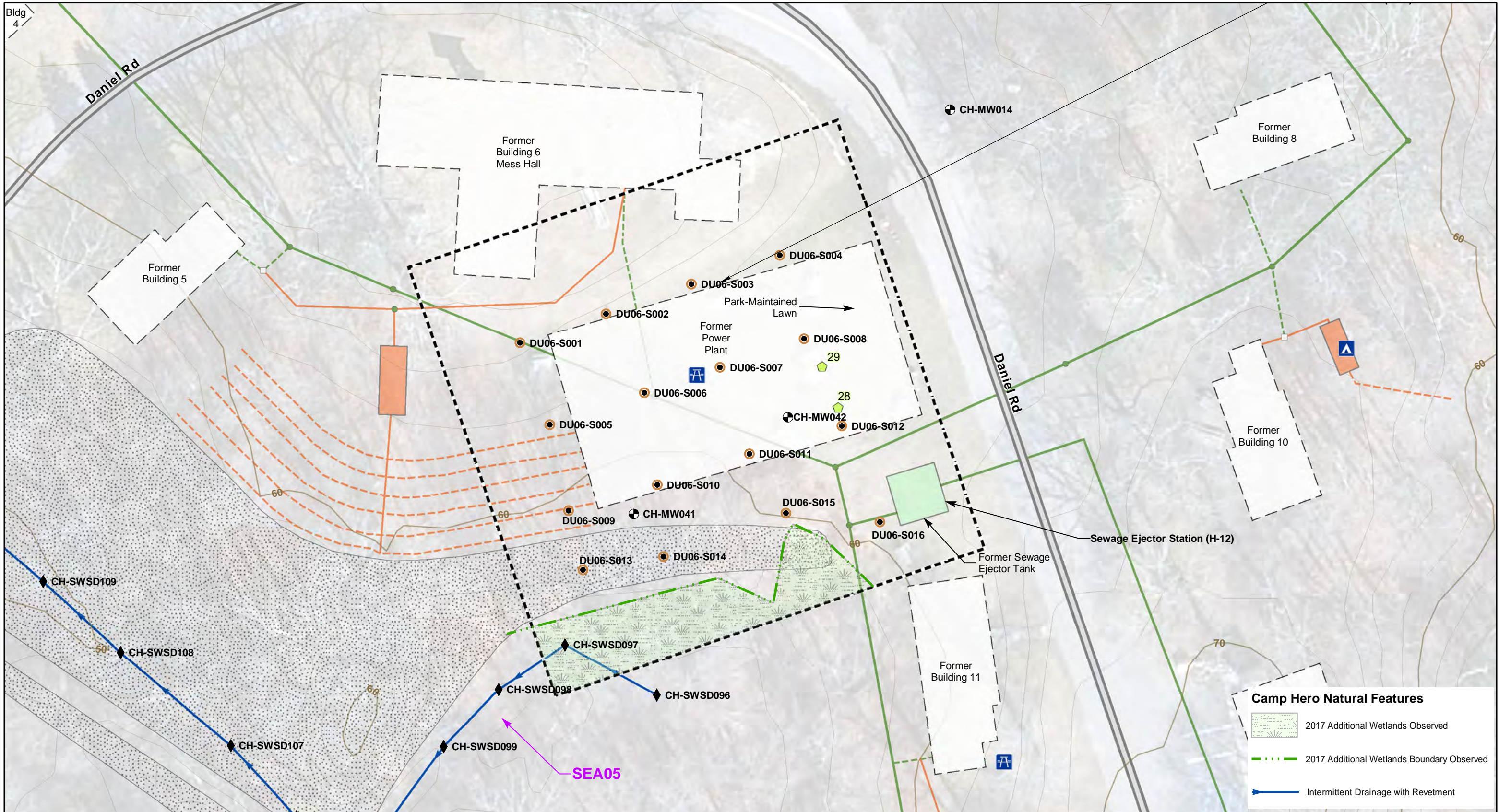
- Camp Hero Built Features**
- Phase III Surface Soil Sample Location
 - Phase III Subsurface Soil Sample Location (1-2 Feet)
 - Phase III Subsurface Soil Sample Location (1-10 Feet)
 - ⬡ Decision Unit

- Former Sanitary Sewer System Features**
- Primary Sanitary Sewer Line
 - - - Secondary WDS Line
 - Septic Lines
 - - - Drain Tilefields

- Camp Hero Natural Features**
- Septic Tank
 - Manhole
 - Box (cleanout or other)
 - Cesspool
 - Topographic Contours
 - 10 ft
 - 2 ft
 - 2017 Additional Wetlands Observed
 - - - 2017 Additional Wetlands Boundary Observed
 - Intermittent Drainage with Revetment

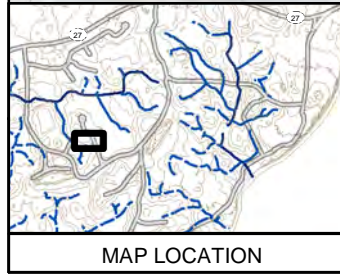
Note
Wetlands were evaluated only within Decision Units.

		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		RI Sampling Locations DU05, WDS Cesspool Area Camp Hero Remedial Investigation Montauk, New York	
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-5a



Camp Hero Natural Features

- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed
- Intermittent Drainage with Revetment



Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Phase III Subsurface Soil Sample Location (1-10 Feet)
- Groundwater Monitoring Well
- Phase III Surface Water and Sediment Sampling Location

Decision Unit

- Storage Tanks
- AST (closed)

State Park Areas

- Camping
- Picnic

Former Sanitary Sewer System Features

- Primary Sanitary Sewer Line
- Secondary WDS Line
- Septic Lines
- Drain Tilefields

Septic Tank

- Septic Tank
- Sewage Ejector Tank
- Manhole
- Box (cleanout or other)

Topographic Contours

- 10 ft
- 2 ft

Coal Fragments

Note: Wetlands were evaluated only within Decision Units.

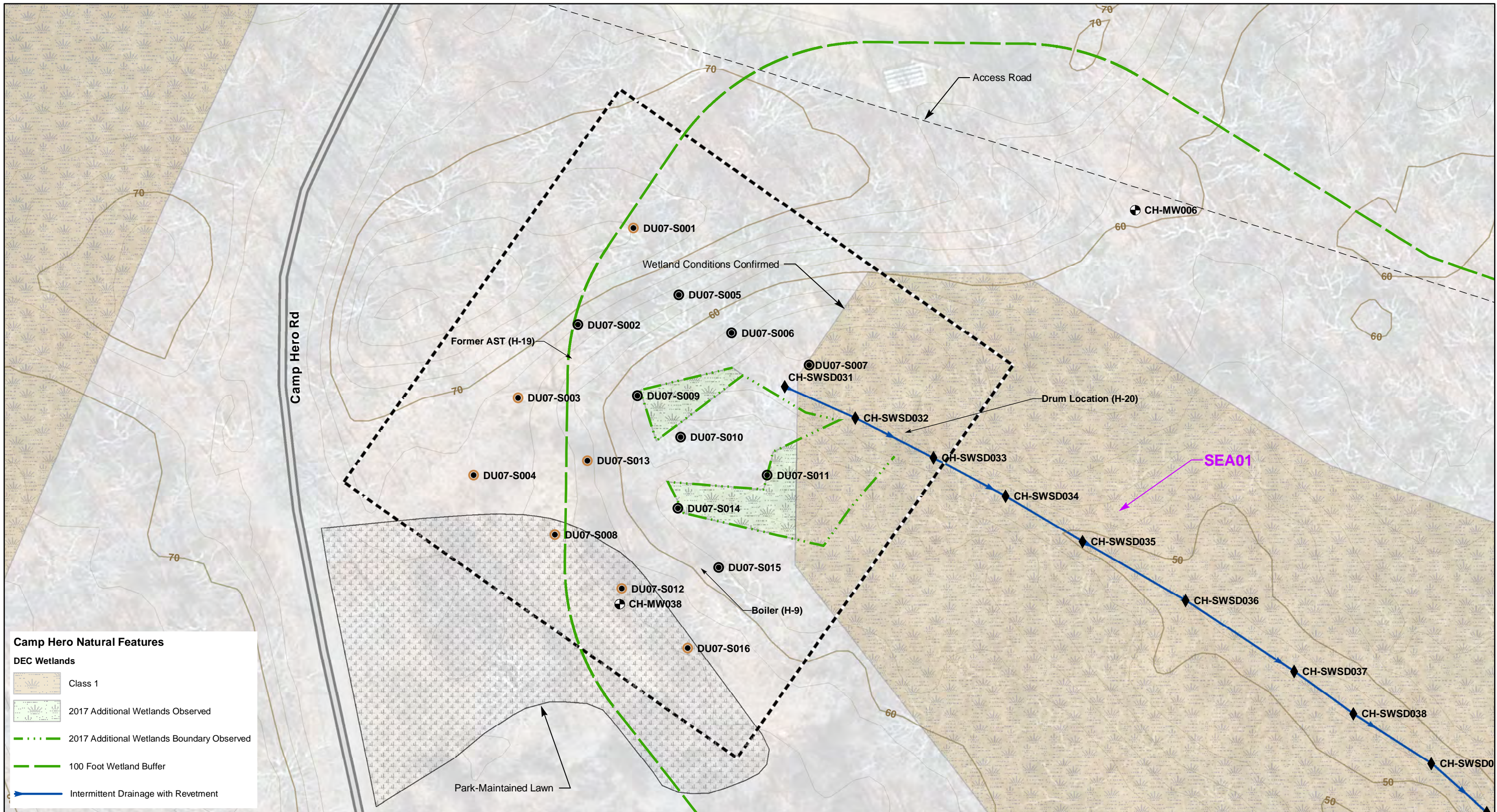
Scale: 1 inch = 30 feet

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RI Sampling Locations
DU06, Former Power Plant Area
Camp Hero Remedial Investigation
Montauk, New York

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Camp Hero Natural Features

DEC Wetlands

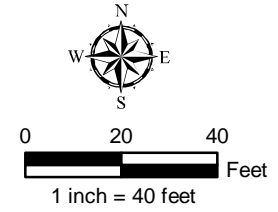
- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed
- 100 Foot Wetland Buffer
- Intermittent Drainage with Revetment



Camp Hero Built Features

- Phase III Surface Soil Sample Location
 - Phase III Subsurface Soil Sample Location (1-2 Feet)
 - Phase III Subsurface Soil Sample Location (1-10 Feet)
 - Groundwater Monitoring Well
 - Phase III Surface Water and Sediment Sampling Location
 - Decision Unit
 - Park-Maintained Lawn
- Topographic Contours**
- 10 ft
 - 2 ft

Note
Wetlands were evaluated only within Decision Units.

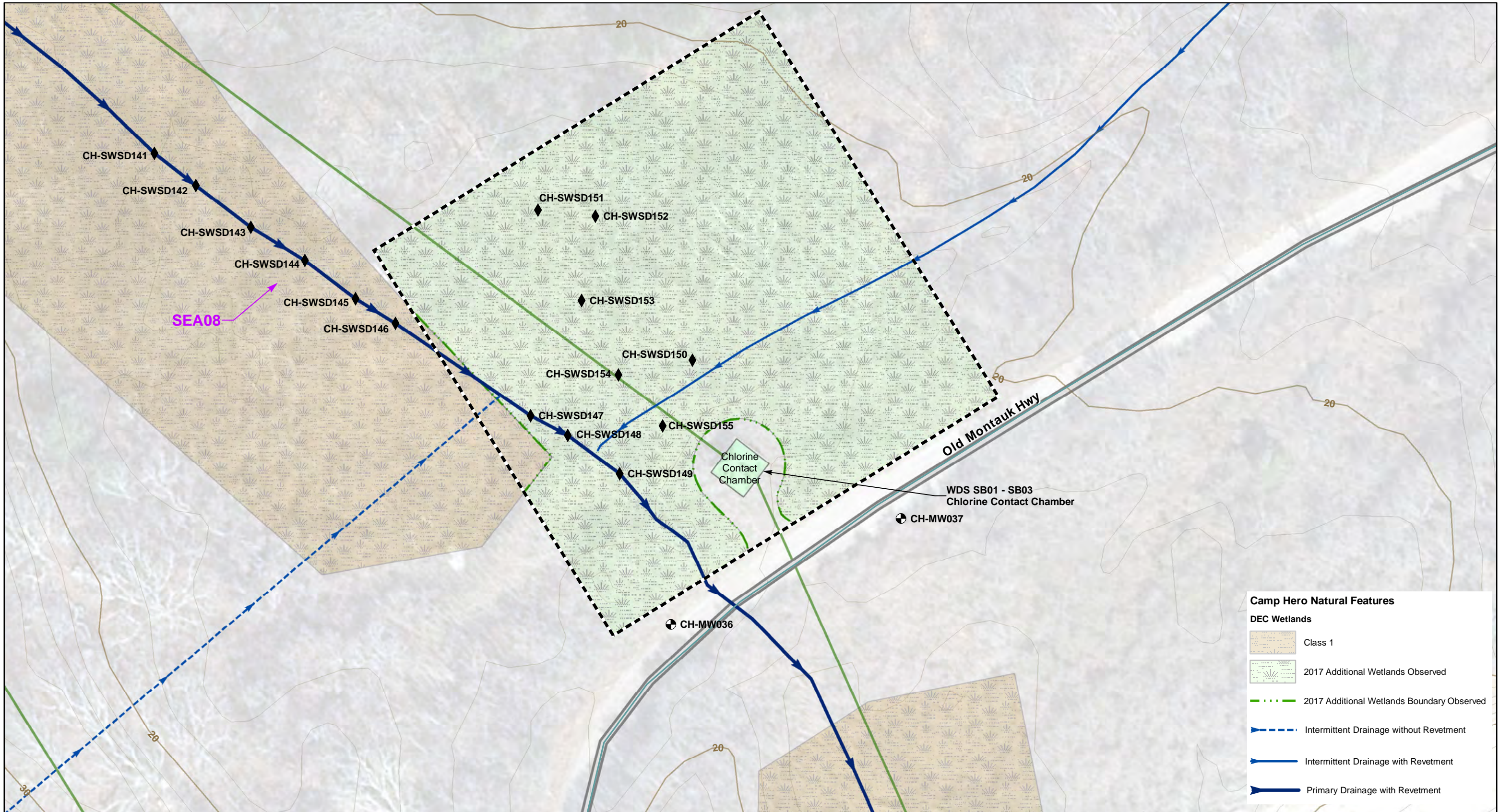


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RI Sampling Locations
DU07, H19, H20 AST/Drum Area
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018
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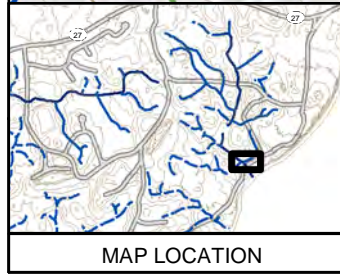
Figure 4-7a



Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage with Revetment



Camp Hero Built Features

- Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Decision Unit

State Park Trails

- Paumanok Path

Former Sanitary Sewer System Features

- Primary Sanitary Sewer Line

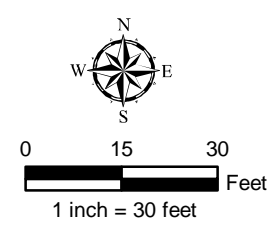
Chlorine Contact Chamber

- Chlorine Contact Chamber

Topographic Contours

- 10 ft
- 2 ft

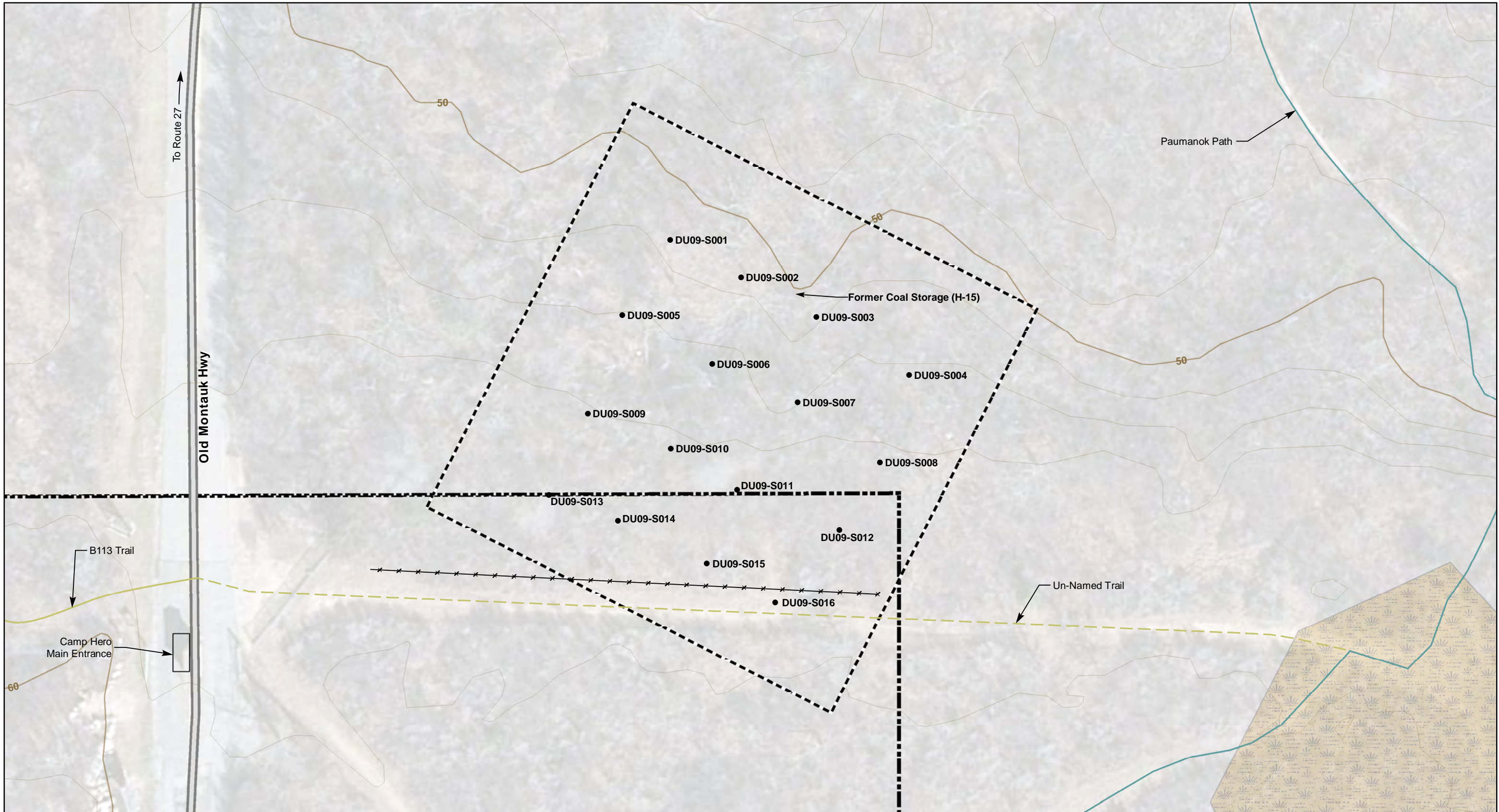
Note
Wetlands were evaluated only within Decision Units.



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RI Sampling Locations
DU08, WDS Chlorine Contact Chamber Area
Camp Hero Remedial Investigation
Montauk, New York

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Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Decision Unit
- Camp Hero State Park Boundary

State Park Trails

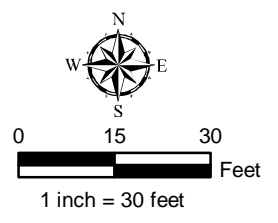
- Battery 113 Trail
- Paumanok Path

Topographic Contours

- 10 ft
- 2 ft

Camp Hero Natural Features

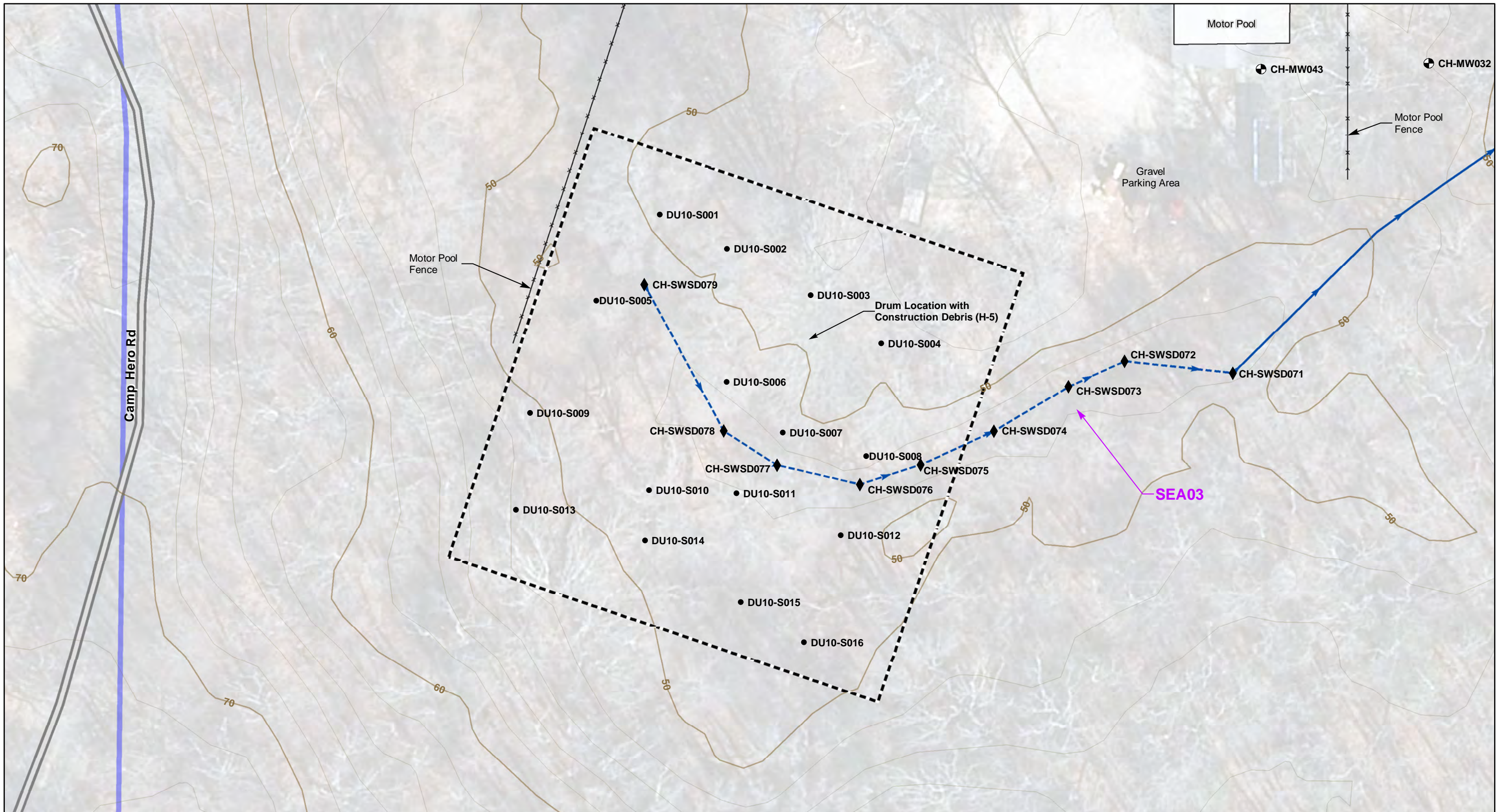
- DEC Wetlands**
- Class 1



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RI Sampling Locations
DU09, Coal Storage Area
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-9a
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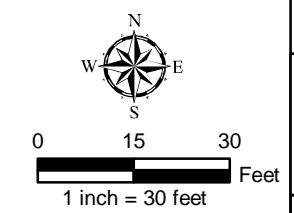


Camp Hero Built Features

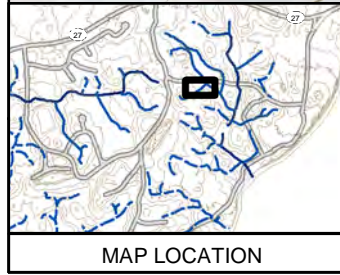
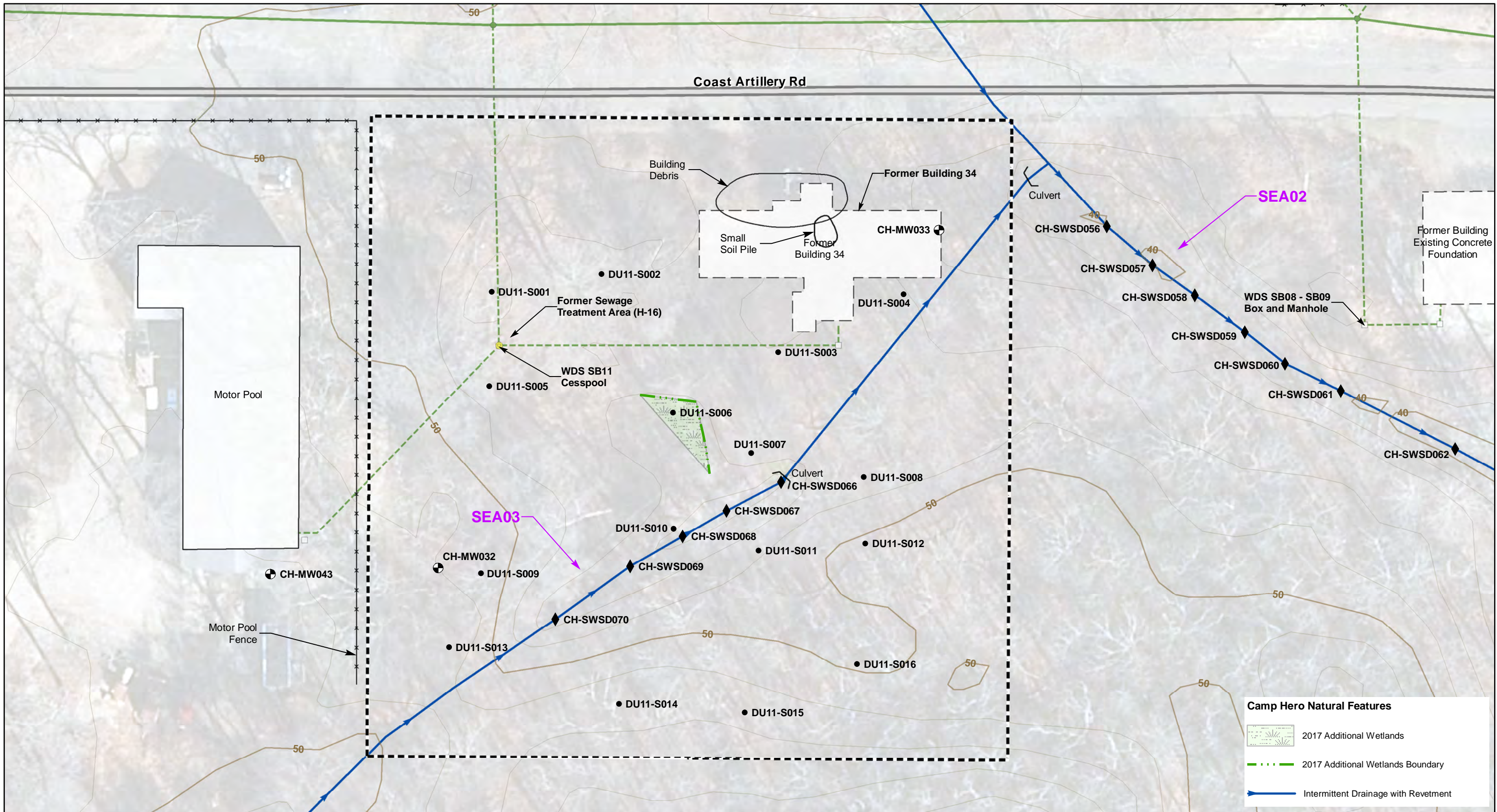
- Phase III Surface Soil Sample Location
- ⊕ Groundwater Monitoring Well
- ◆ Phase III Surface Water and Sediment Sampling Location
- ⊞ Decision Unit

Camp Hero Natural Features

- x— Fence
- Topographic Contours**
 - 10 ft
 - 2 ft
- Hydrographic Divide
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment

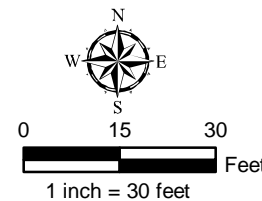


		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		RI Sampling Locations DU10, H5 Drum/Debris Area Camp Hero Remedial Investigation Montauk, New York	
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-10a

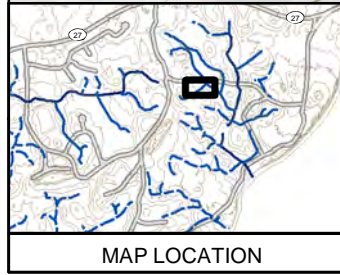
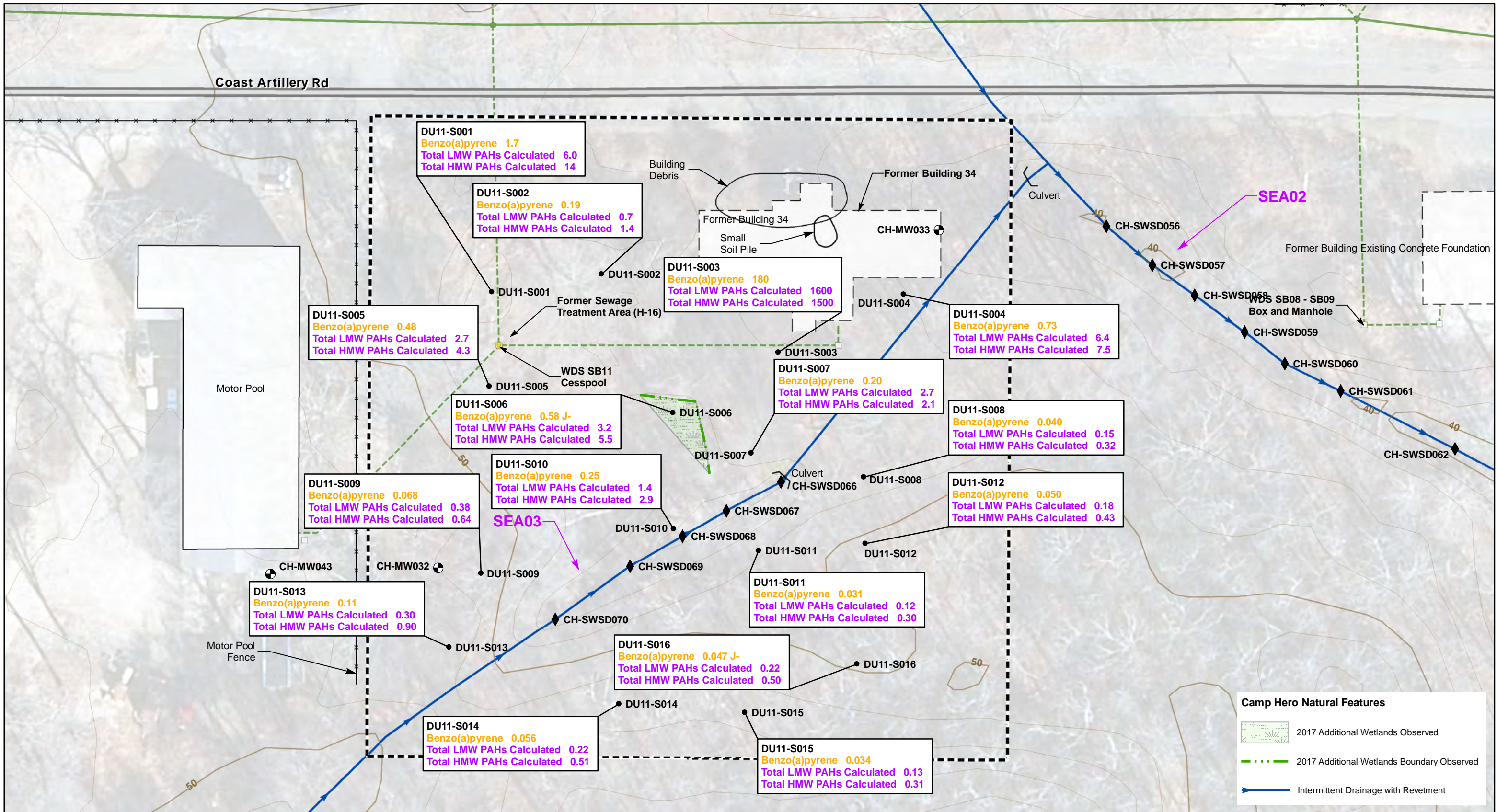


Camp Hero Built Features <ul style="list-style-type: none"> ● Phase III Surface Soil Sample Location ⊕ Groundwater Monitoring Well ◆ Phase III Surface Water and Sediment Sampling Location ⊠ Decision Unit 		Former Sanitary Sewer System Features <ul style="list-style-type: none"> ▭ Existing Building ▭ Former Building — Primary Sanitary Sewer Line - - - Secondary WDS Line ● Manhole □ Box (cleanout or other) 		Topographic Contours <ul style="list-style-type: none"> ● Cesspool — 10 ft — 2 ft 	
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Note: Wetlands were evaluated only within Decision Units.



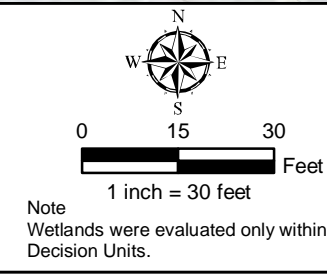
		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
RI Sampling Locations DU11, H16 Sewage/WDS Septic Area Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-11a



Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Groundwater Monitoring Well
- Phase III Surface Water and Sediment Sampling Location
- Decision Unit
- Existing Building
- Former Building
- Fence
- Former Sanitary Sewer System Features
 - Primary Sanitary Sewer Line
 - Secondary WDS Line
 - Manhole
 - Box (cleanout or other)
- Cesspool
- Topographic Contours
 - 10 ft
 - 2 ft

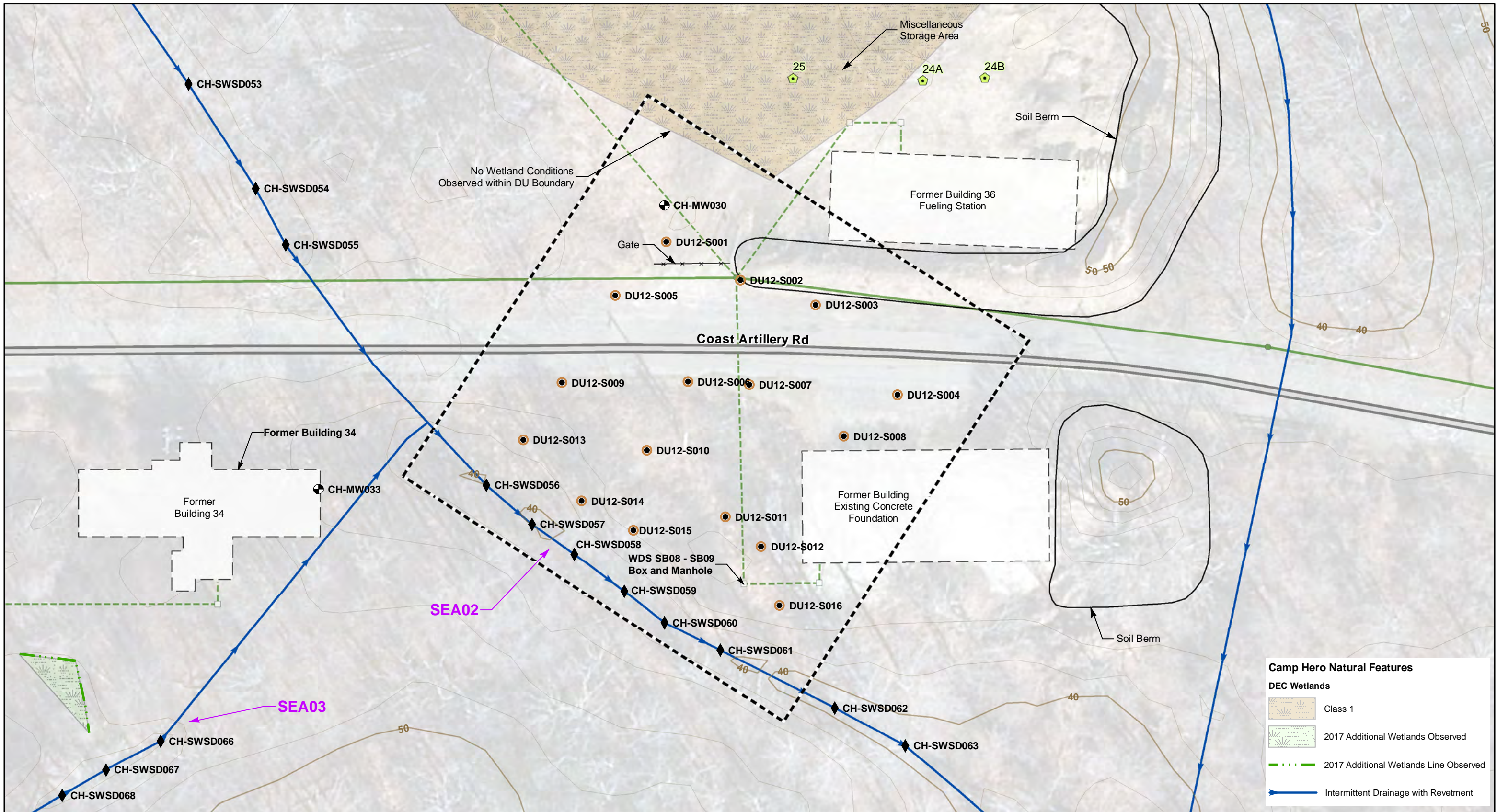
Results Units are in mg/kg.
 Orange = PAHs that warranted additional evaluation as part of the HHRA.
 Purple = PAHs that warranted additional evaluation as part of the ERA.
 HMW = high molecular weight.
 LMW = low molecular weight.
 PAHs = polycyclic aromatic hydrocarbons.



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Distribution of PAHs, DU11, H16 Sewage/WDS Septic Area
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 Montauk, New York

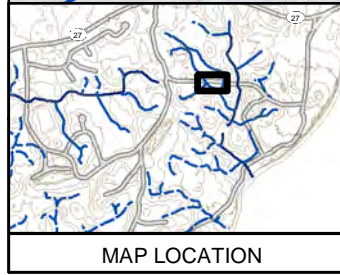
PROJECT NO. 60443903	PREPARED BY: JB	DATE: October 2018	Figure 4-11b
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Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage with Revetment



Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Phase III Subsurface Soil Sample Location (1-10 Feet)
- Groundwater Monitoring Well
- Phase III Surface Water and Sediment Sampling Location

Storage Tanks

- UST (closed)
- Former Building
- Fence

Former Sanitary Sewer System Features

- Primary Sanitary Sewer Line
- Secondary WDS Line
- Manhole
- Box (cleanout or other)

Topographic Contours

- 10 ft
- 2 ft

Note: Wetlands were evaluated only within Decision Units.

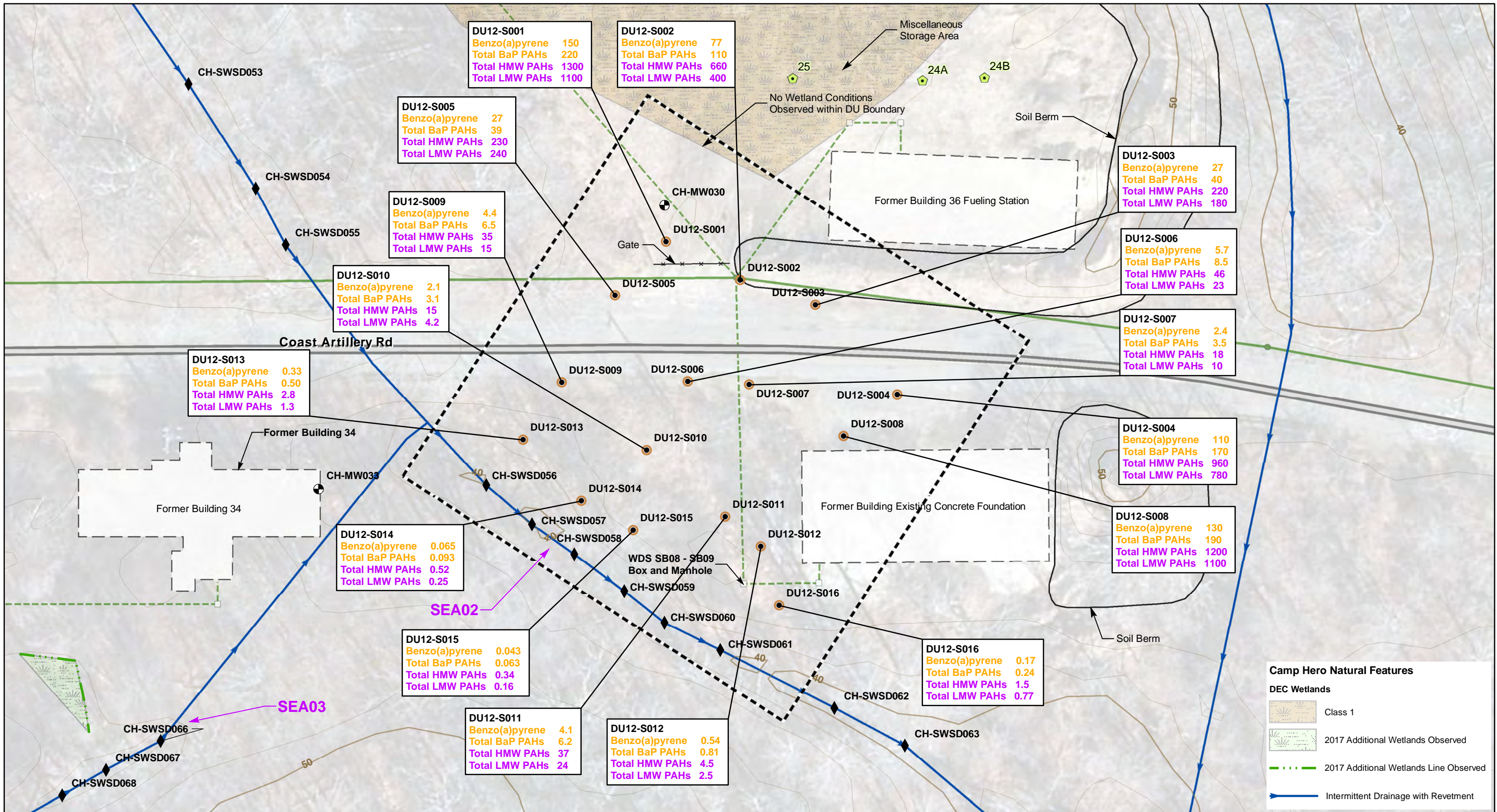
1 inch = 30 feet

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RI Sampling Locations
DU12, WDS Manhole Area 1
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-12a
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DU12-S013
 Benzo(a)pyrene 0.33
 Total BaP PAHs 0.50
 Total HMW PAHs 2.8
 Total LMW PAHs 1.3

DU12-S010
 Benzo(a)pyrene 2.1
 Total BaP PAHs 3.1
 Total HMW PAHs 15
 Total LMW PAHs 4.2

DU12-S009
 Benzo(a)pyrene 4.4
 Total BaP PAHs 6.5
 Total HMW PAHs 35
 Total LMW PAHs 15

DU12-S005
 Benzo(a)pyrene 27
 Total BaP PAHs 39
 Total HMW PAHs 230
 Total LMW PAHs 240

DU12-S001
 Benzo(a)pyrene 150
 Total BaP PAHs 220
 Total HMW PAHs 1300
 Total LMW PAHs 1100

DU12-S002
 Benzo(a)pyrene 77
 Total BaP PAHs 110
 Total HMW PAHs 660
 Total LMW PAHs 400

DU12-S003
 Benzo(a)pyrene 27
 Total BaP PAHs 40
 Total HMW PAHs 220
 Total LMW PAHs 180

DU12-S006
 Benzo(a)pyrene 5.7
 Total BaP PAHs 8.5
 Total HMW PAHs 46
 Total LMW PAHs 23

DU12-S007
 Benzo(a)pyrene 2.4
 Total BaP PAHs 3.5
 Total HMW PAHs 18
 Total LMW PAHs 10

DU12-S004
 Benzo(a)pyrene 110
 Total BaP PAHs 170
 Total HMW PAHs 960
 Total LMW PAHs 780

DU12-S008
 Benzo(a)pyrene 130
 Total BaP PAHs 190
 Total HMW PAHs 1200
 Total LMW PAHs 1100

DU12-S014
 Benzo(a)pyrene 0.065
 Total BaP PAHs 0.093
 Total HMW PAHs 0.52
 Total LMW PAHs 0.25

DU12-S015
 Benzo(a)pyrene 0.043
 Total BaP PAHs 0.063
 Total HMW PAHs 0.34
 Total LMW PAHs 0.16

DU12-S011
 Benzo(a)pyrene 4.1
 Total BaP PAHs 6.2
 Total HMW PAHs 37
 Total LMW PAHs 24

DU12-S012
 Benzo(a)pyrene 0.54
 Total BaP PAHs 0.81
 Total HMW PAHs 4.5
 Total LMW PAHs 2.5

DU12-S016
 Benzo(a)pyrene 0.17
 Total BaP PAHs 0.24
 Total HMW PAHs 1.5
 Total LMW PAHs 0.77

Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage with Revetment

Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Phase III Subsurface Soil Sample Location (1-10 Feet)
- Groundwater Monitoring Well
- Phase III Surface Water and Sediment Sampling Location

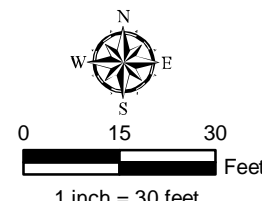
- Decision Unit
- Storage Tanks
 - UST (closed)
 - Former Building
 - Fence

- Former Sanitary Sewer System Features**
 - Primary Sanitary Sewer Line
 - Secondary WDS Line
 - Manhole

- Box (cleanout or other)
- Topographic Contours**
 - 10 ft
 - 2 ft

Results
 Units are in mg/kg.
 Orange = PAHs that warranted additional evaluation as part of the HHRA.
 Purple = PAHs that warranted additional evaluation as part of the ERA.

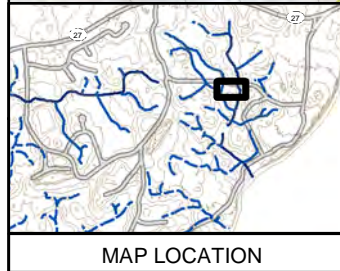
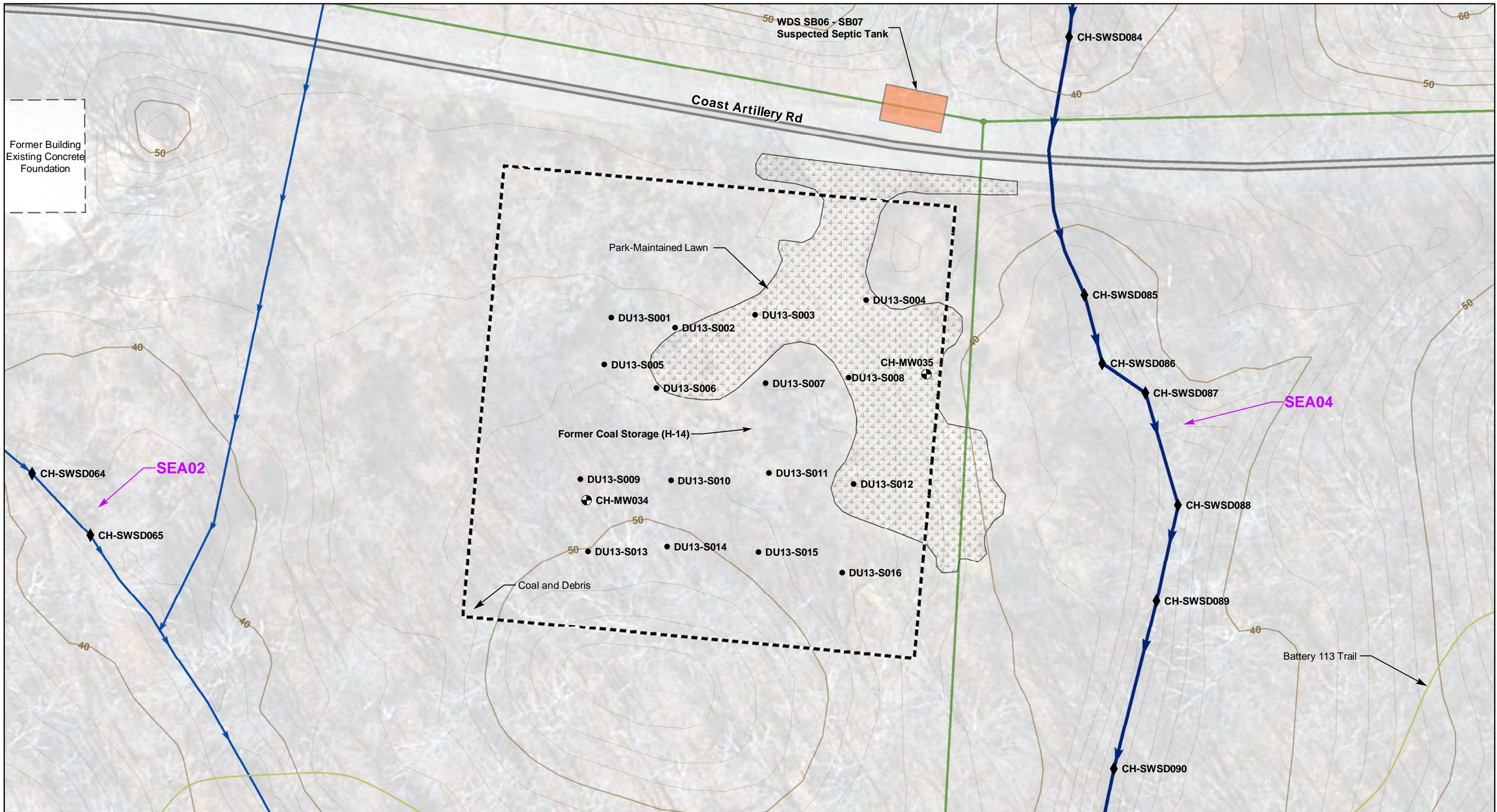
Note
 Wetlands were evaluated only within Decision Units.



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Distribution of PAHs in Surface Soil, DU12, WDS Manhole Area 1
 Camp Hero Remedial Investigation
 Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: October 2018	Figure 4-12b
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Camp Hero Built Features

- Phase III Surface Soil Sample Location
- ⊕ Groundwater Monitoring Well
- ◆ Phase III Surface Water and Sediment Sampling Location
- ⬡ Decision Unit

State Park Trails

Battery 113 Trail

Topographic Contours

10 ft

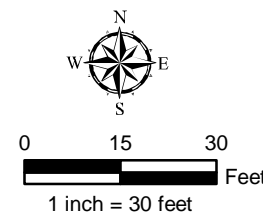
2 ft

⬡ Park-Maintained Lawn

Camp Hero Natural Features

— Intermittent Drainage with Revetment

— Primary Drainage with Revetment



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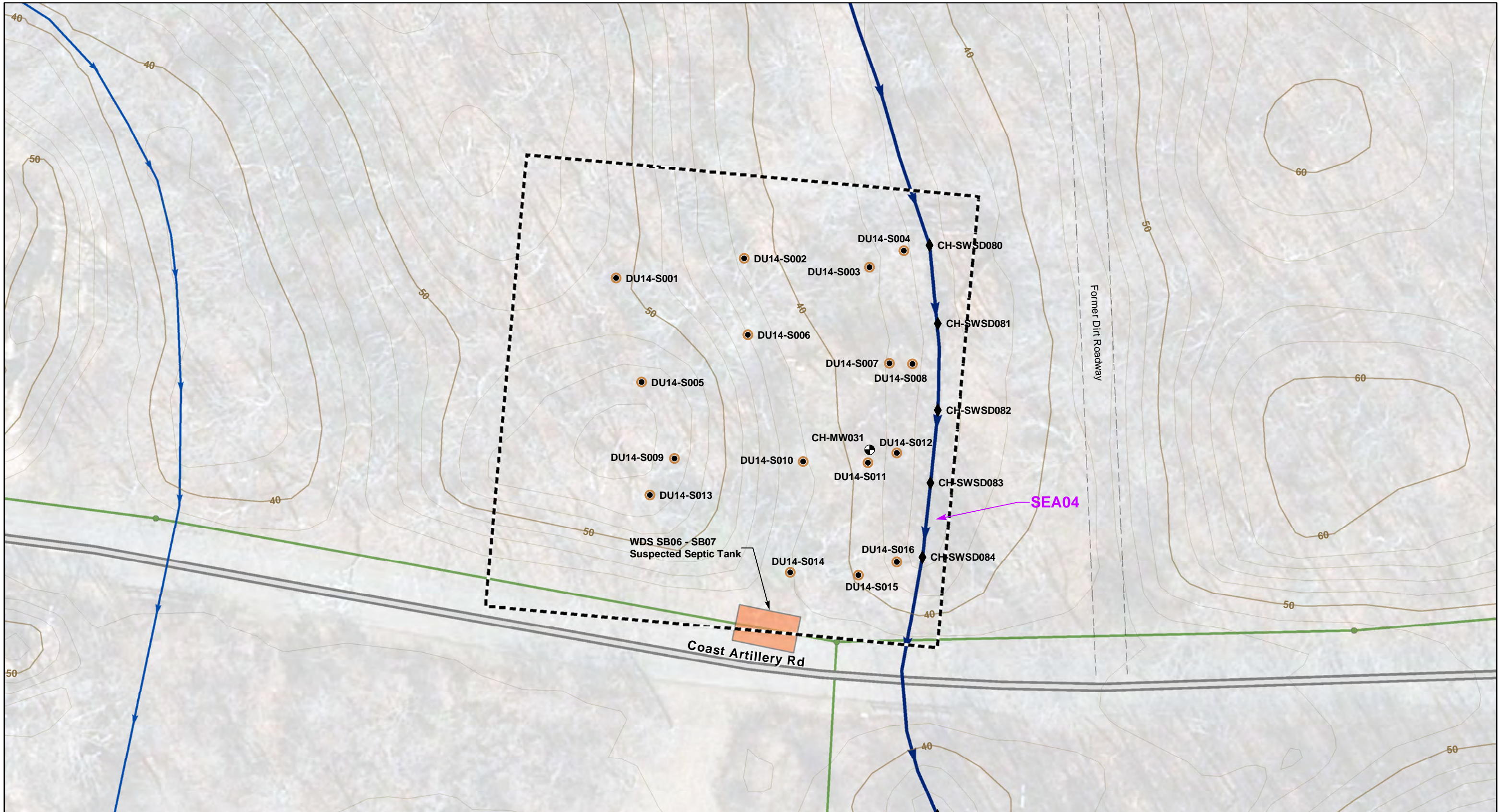
RI Sampling Locations
DU13, H14 Coal Storage Area
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO.
60443903

PREPARED BY:
JB

DATE:
July 2018

Figure 4-13a



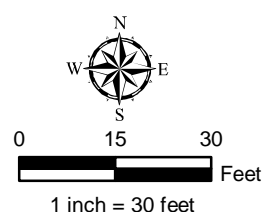
Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Phase III Subsurface Soil Sample Location (1-10 Feet)
- ⊕ Groundwater Monitoring Well
- ◆ Phase III Surface Water and Sediment Sampling Location

- ⬡ Decision Unit
- Topographic Contours
 - 10 ft
 - 2 ft
- Manhole
- Septic Tank
- Primary Sanitary Sewer Line

Camp Hero Natural Features

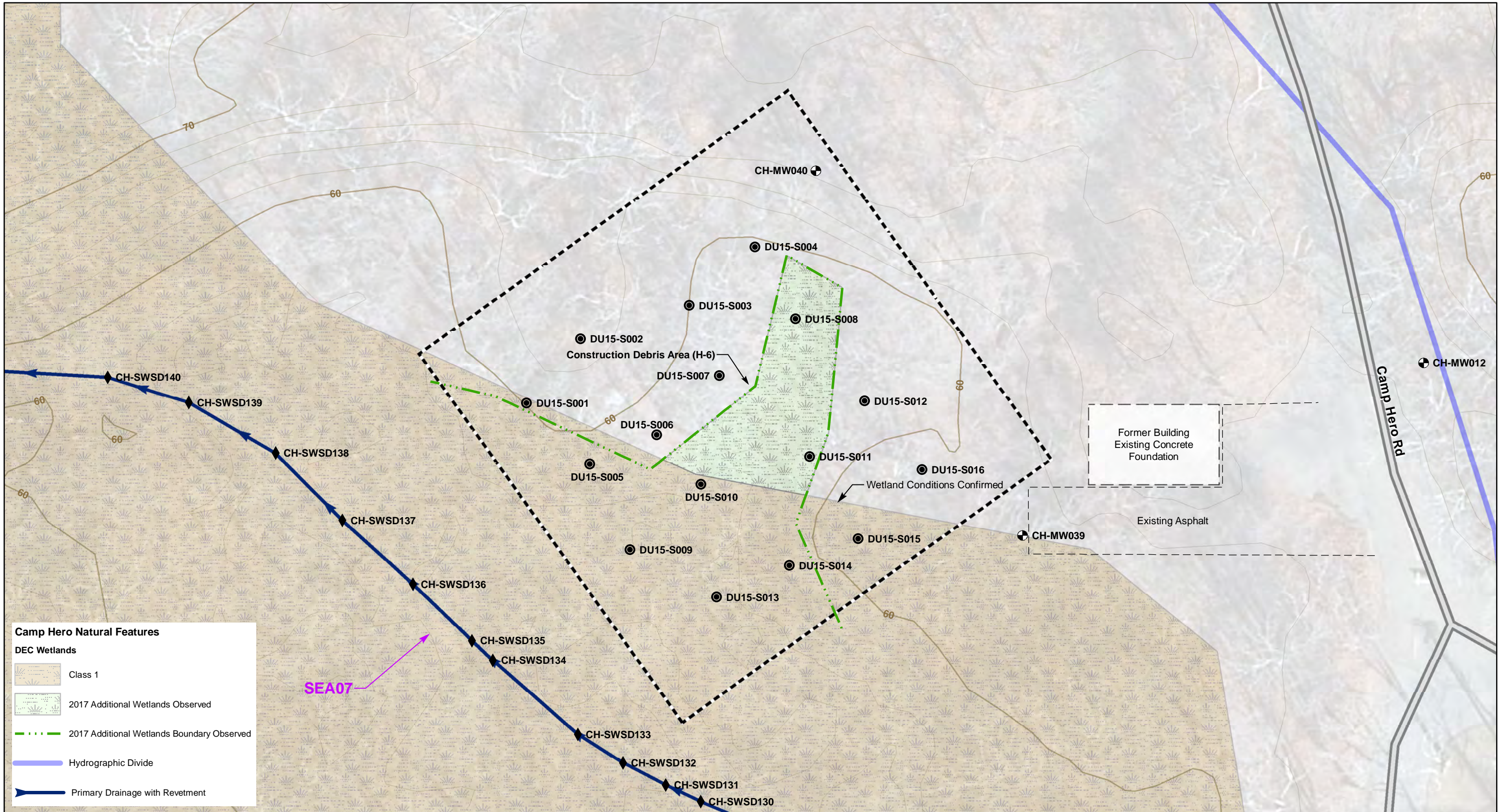
- Primary Drainage with Revetment
- Intermittent Drainage with Revetment



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RI Sampling Locations
DU14, WDS Septic Tank Area
Camp Hero Remedial Investigation
Montauk, New York

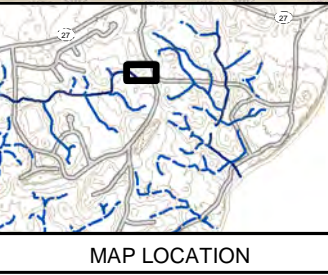
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-14a
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Camp Hero Natural Features

DEC Wetlands

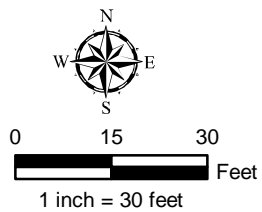
- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Boundary Observed
- Hydrographic Divide
- Primary Drainage with Revetment



- Camp Hero Built Features**
- Phase III Surface Soil Sample Location
 - Phase III Subsurface Soil Sample Location (1-2 Feet)
 - Groundwater Monitoring Well
 - Phase III Surface Water and Sediment Sampling Location

- Decision Unit
- Topographic Contours**
- 10 ft
 - 2 ft

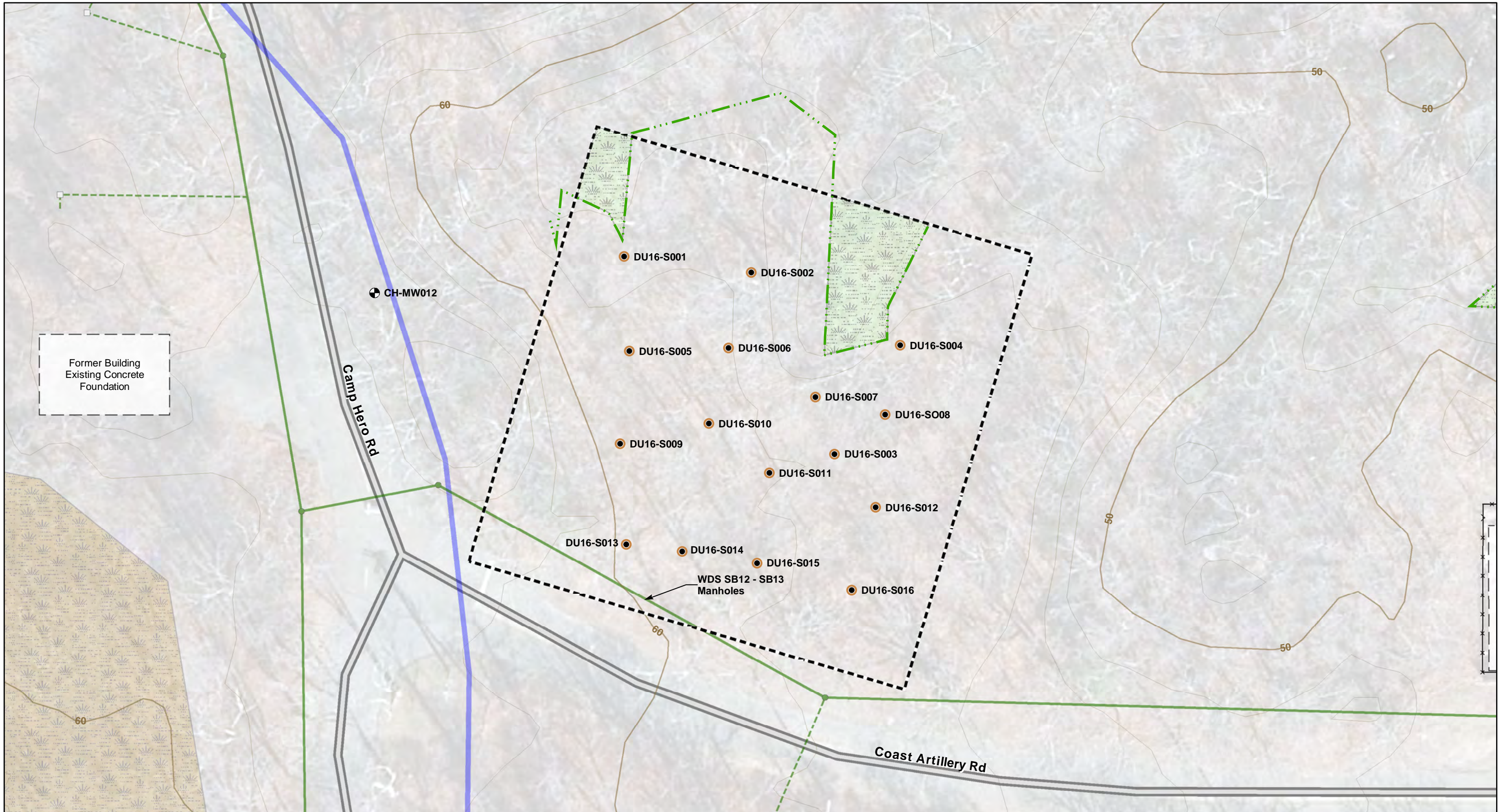
Note
Wetlands were evaluated only within Decision Units.



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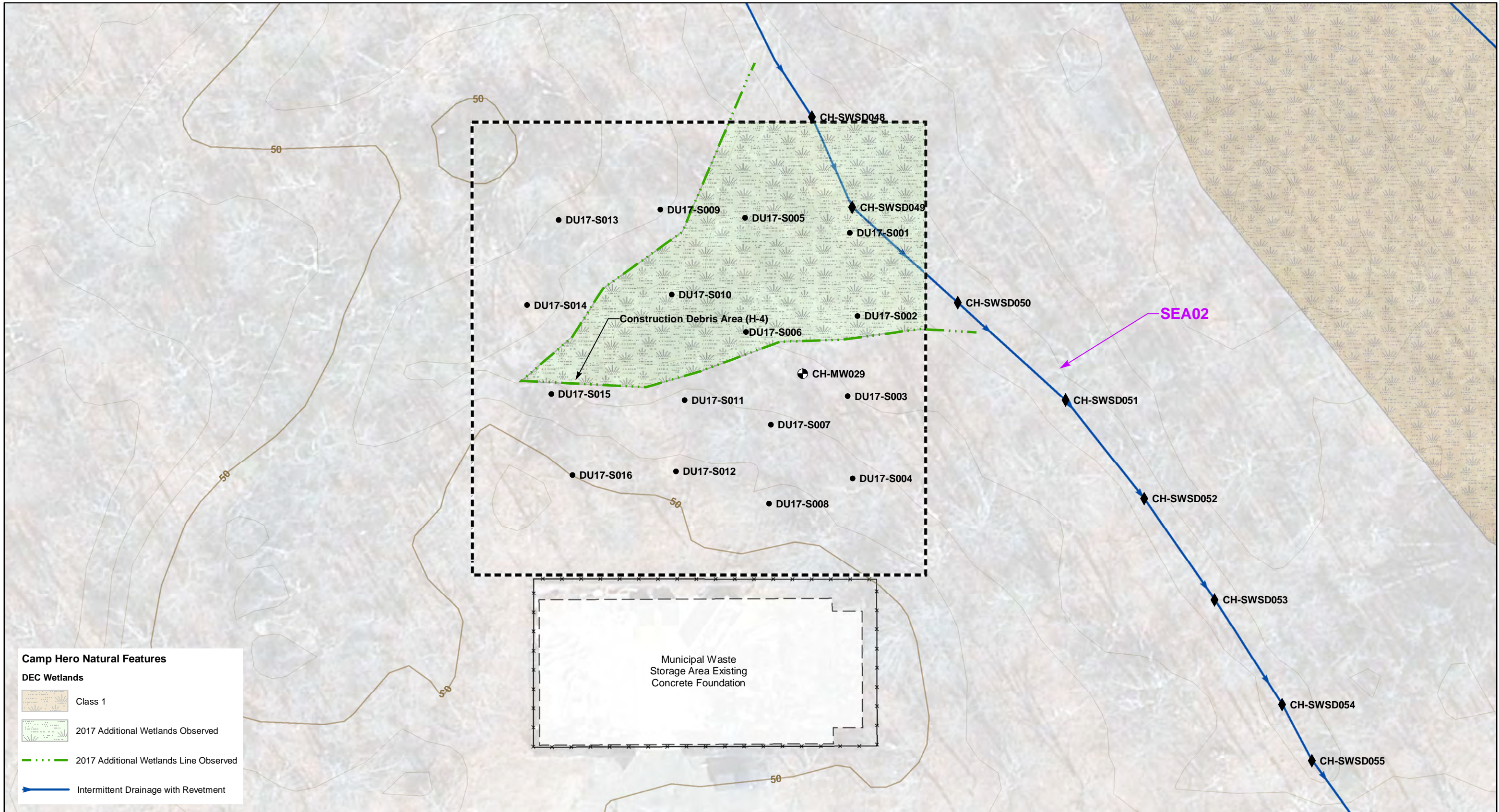
RI Sampling Locations
DU15, H6 Debris Area
Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-15a
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Camp Hero Built Features <ul style="list-style-type: none"> ● Phase III Surface Soil Sample Location ○ Phase III Subsurface Soil Sample Location (1-10 Feet) ⊕ Groundwater Monitoring Well ⬡ Decision Unit 		Former Sanitary Sewer System Features <ul style="list-style-type: none"> — Fence — Primary Sanitary Sewer Line - - - Secondary WDS Line □ Box (cleanout or other) 		Camp Hero Natural Features DEC Wetlands <ul style="list-style-type: none"> Class 1 2017 Additional Wetlands Observed 2017 Additional Wetlands Boundary Observed 		<ul style="list-style-type: none"> ● Manhole — Topographic Contours 10 ft 2 ft — Hydrographic Divide 	
		Note Wetlands were evaluated only within Decision Units.					

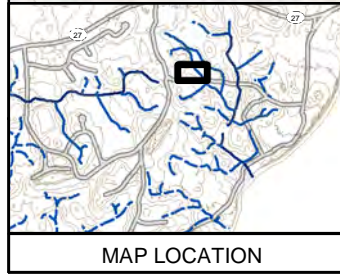
AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
RI Sampling Locations DU16, WDS Manhole Area 2 Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-16a



Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage with Revetment



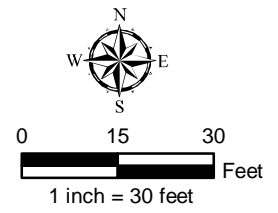
Camp Hero Built Features

- Phase III Surface Soil Sample Location
- Groundwater Monitoring Well
- Phase III Surface Water and Sediment Sampling Location
- Decision Unit
- Fence

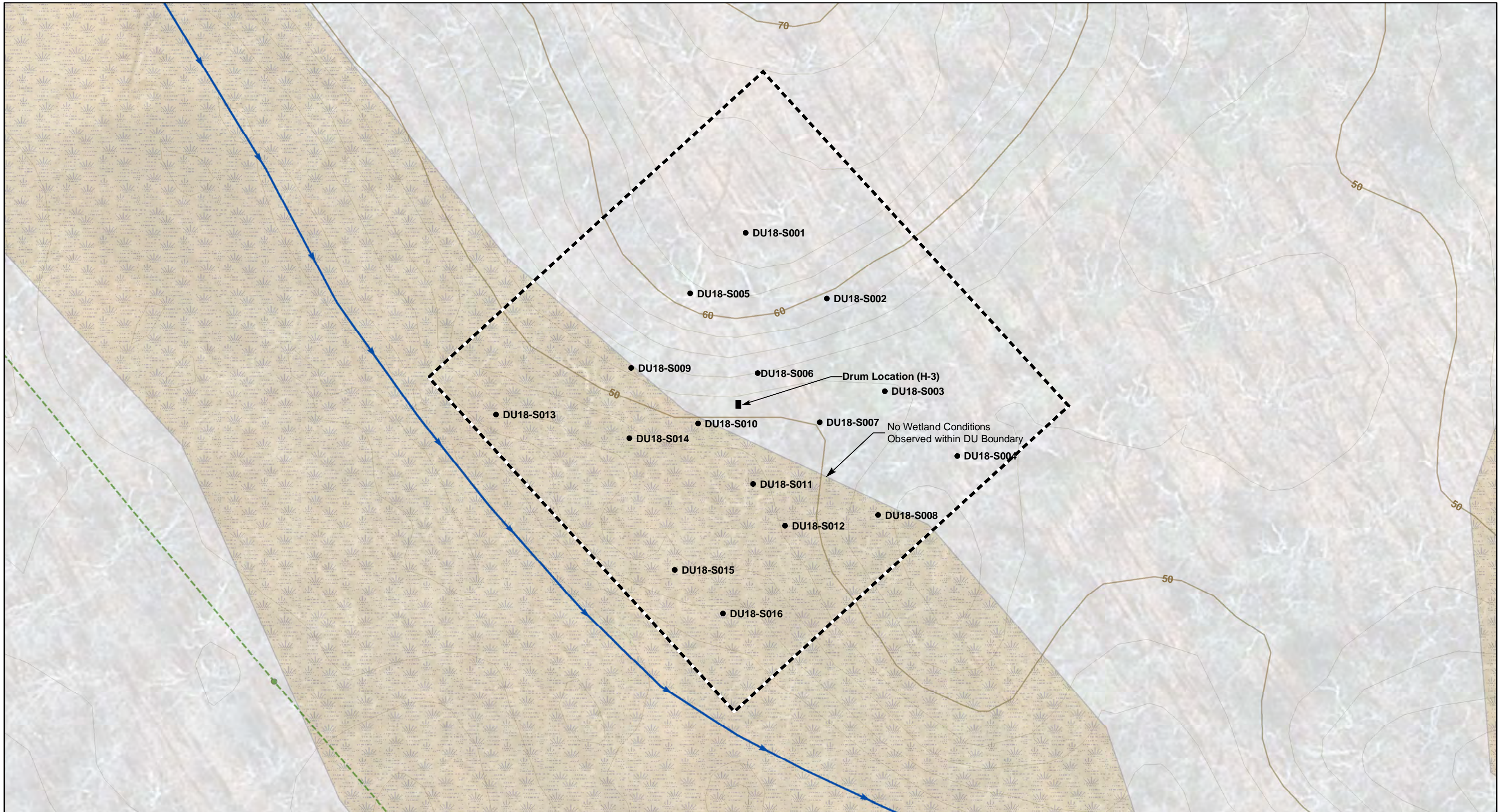
Topographic Contours

- 10 ft
- 2 ft

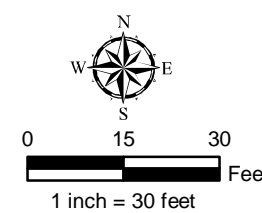
Note
Wetlands were evaluated only within Decision Units.



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RI Sampling Locations DU17, H4 Debris Area Camp Hero Remedial Investigation Montauk, New York			
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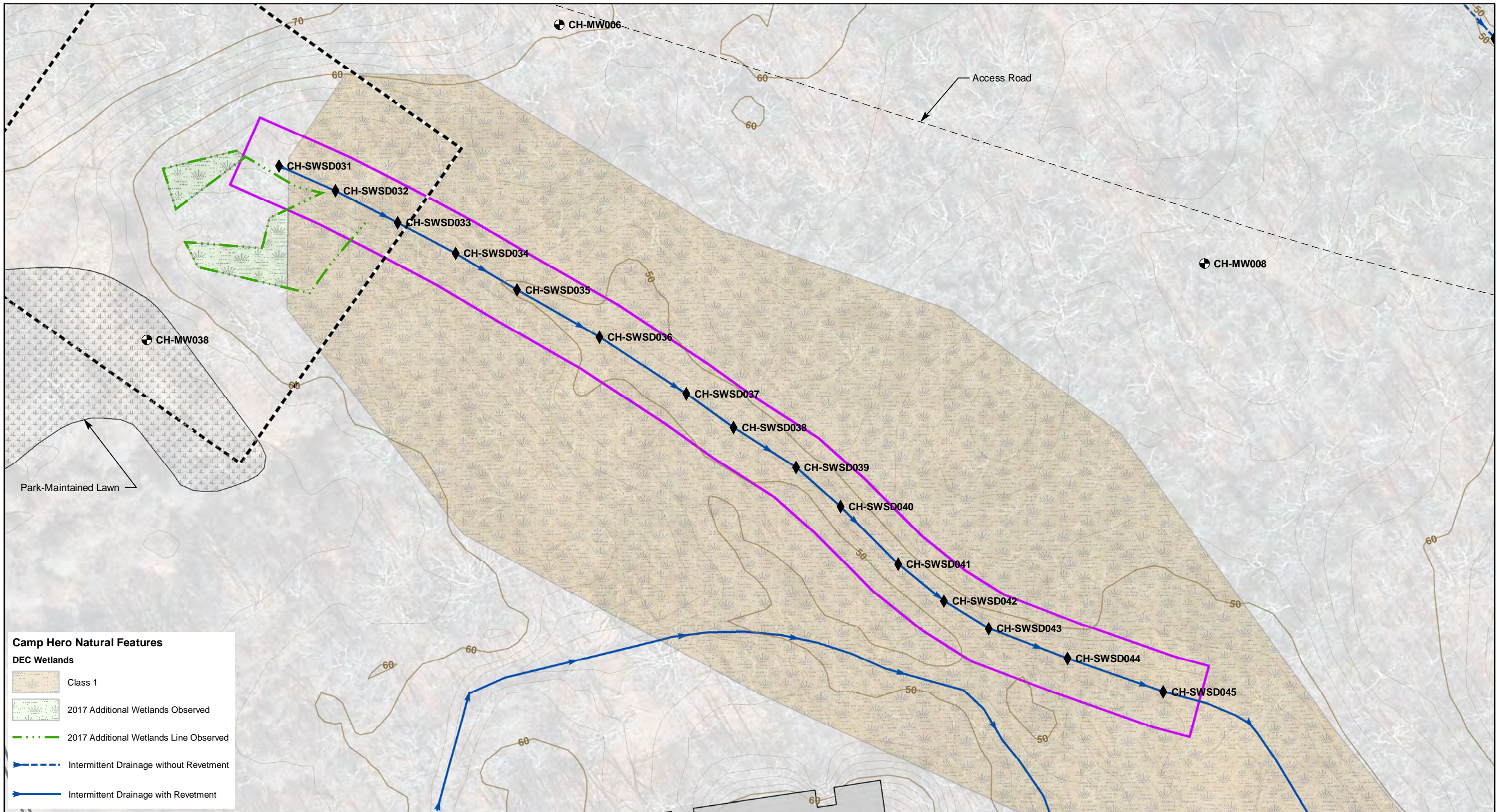
Camp Hero Built Features		Topographic Contours	Camp Hero Natural Features
● Phase III Surface Soil Sample Location		— 10 ft	DEC Wetlands
⬡ Decision Unit		— 2 ft	Class 1
Former Sanitary Sewer System Features			Intermittent Drainage with Revetment
--- Secondary WDS Line			
● Manhole			



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RI Sampling Locations	
DU18, H3 Drum Area	
Camp Hero Remedial Investigation Montauk, New York	

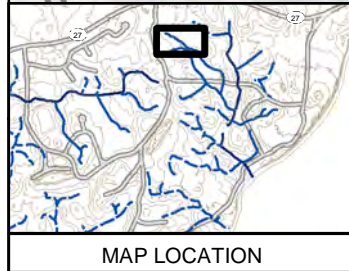
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-18a
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Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment



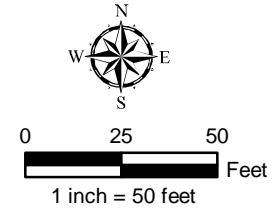
Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Decision Unit
- Stream Exposure Area

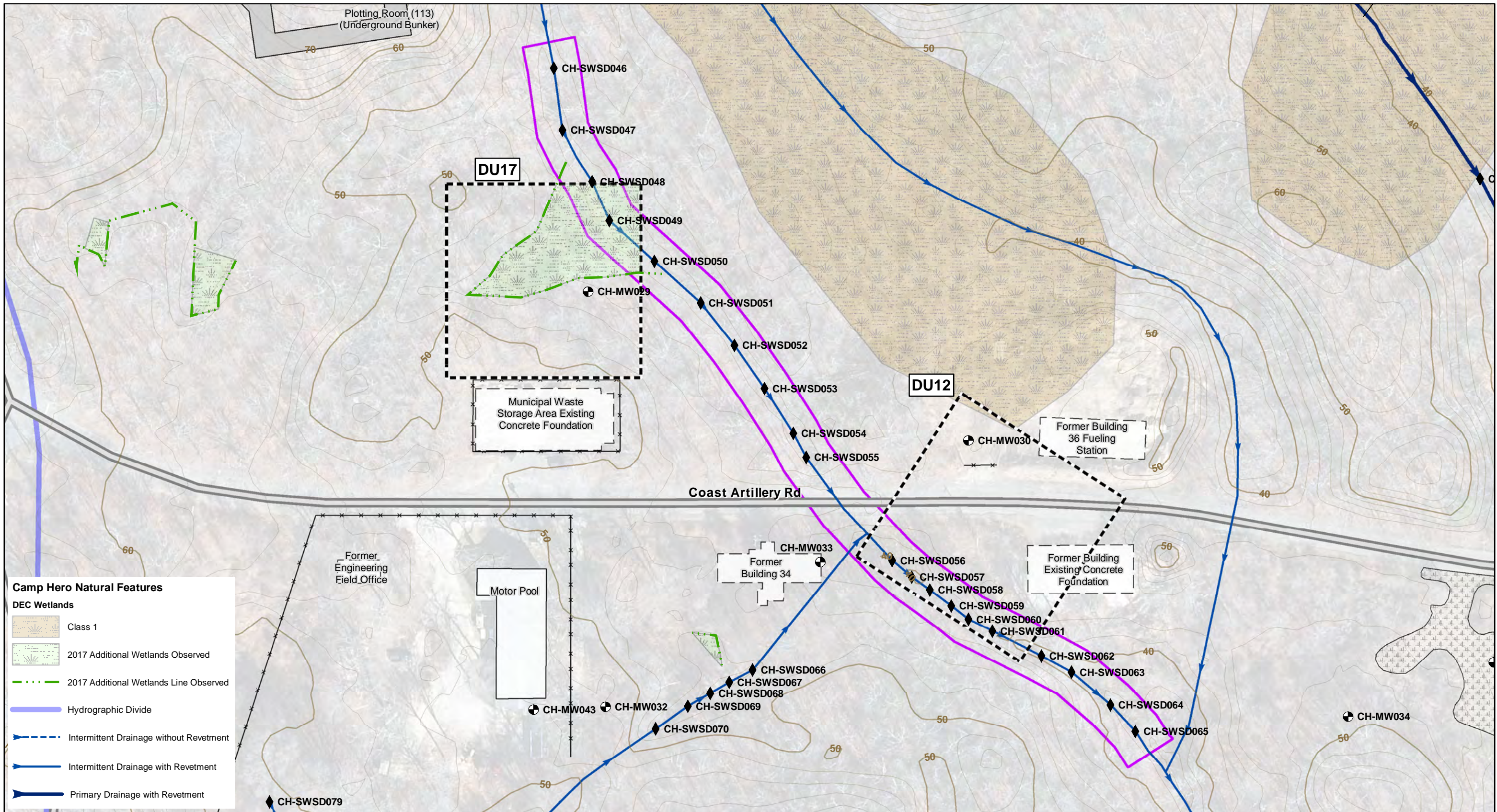
Topographic Contours

- 10 ft
- 2 ft
- Park-Maintained Lawn

Note
Wetlands were evaluated only within Decision Units.



		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		RI Sampling Locations SEA01 Camp Hero Remedial Investigation Montauk, New York	
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Camp Hero Natural Features

DEC Wetlands

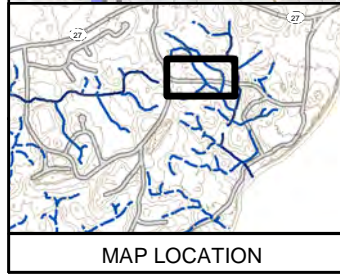
- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed

Hydrographic Divide

Intermittent Drainage without Revetment

Intermittent Drainage with Revetment

Primary Drainage with Revetment



Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit
- Fence

Topographic Contours

- 10 ft
- 2 ft
- Park-Maintained Lawn

Note
Wetlands were evaluated only within Decision Units.

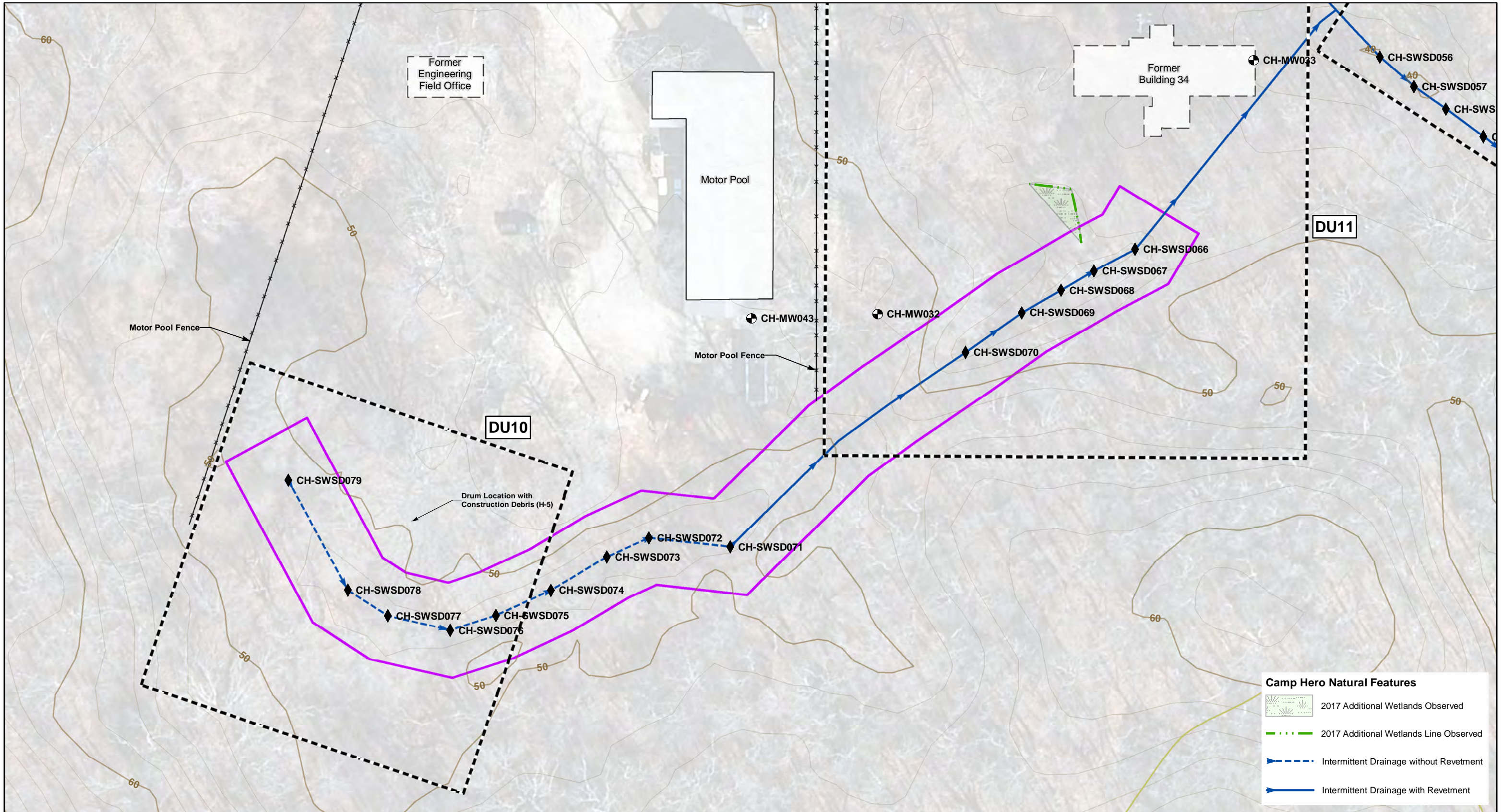
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**RI Sampling Locations
SEA02**

Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-20a
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Camp Hero Natural Features

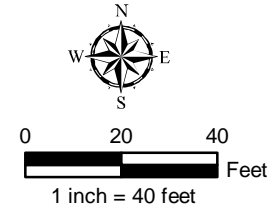
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment



Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit
- State Park Trails
- Battery 113 Trail
- Fence
- Topographic Contours**
- 10 ft
- 2 ft

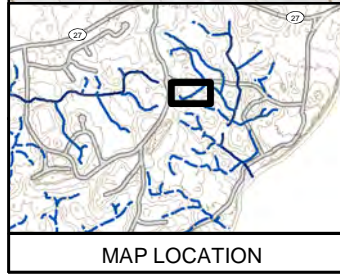
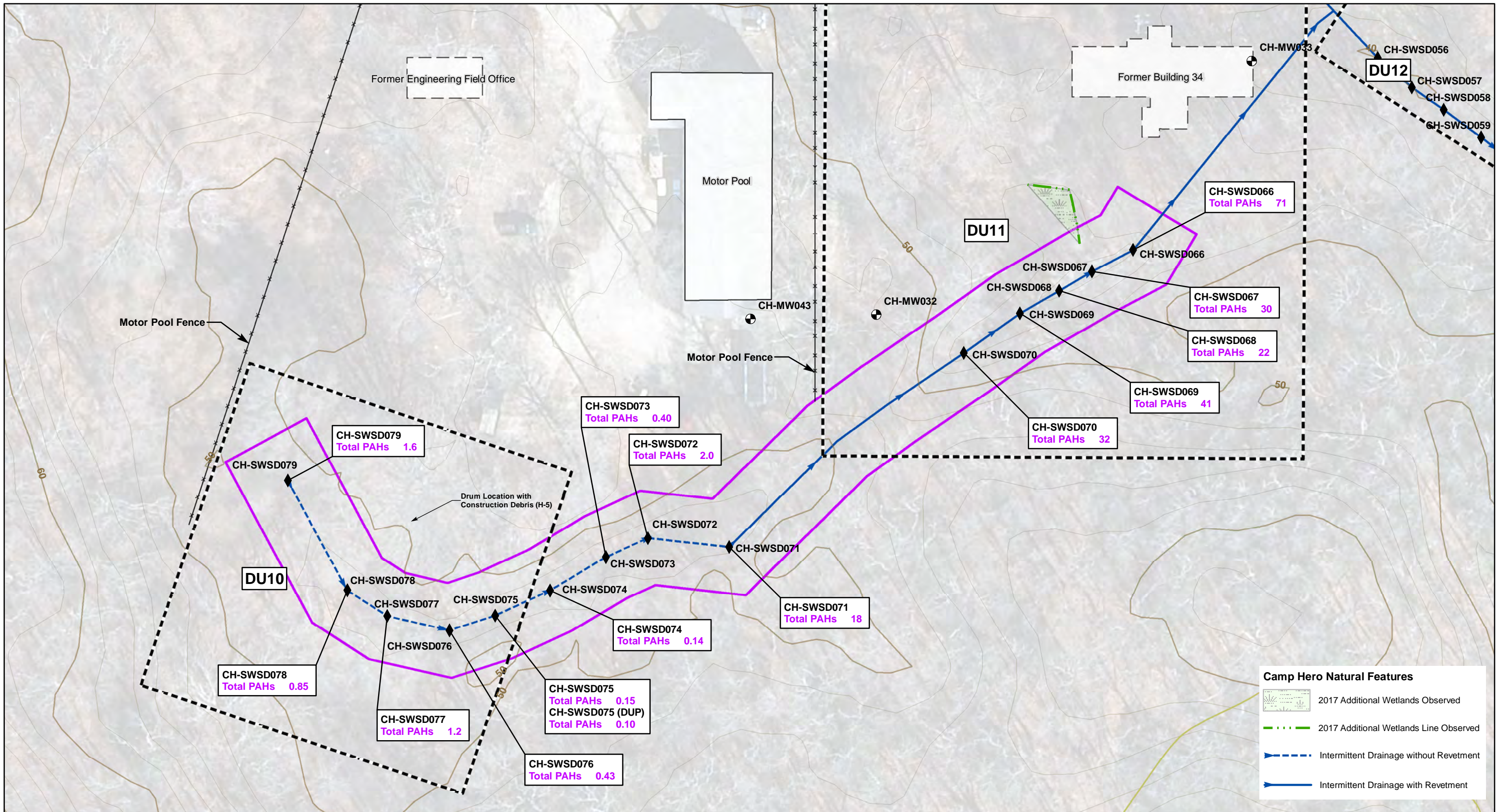
Note
Wetlands were evaluated only within Decision Units.



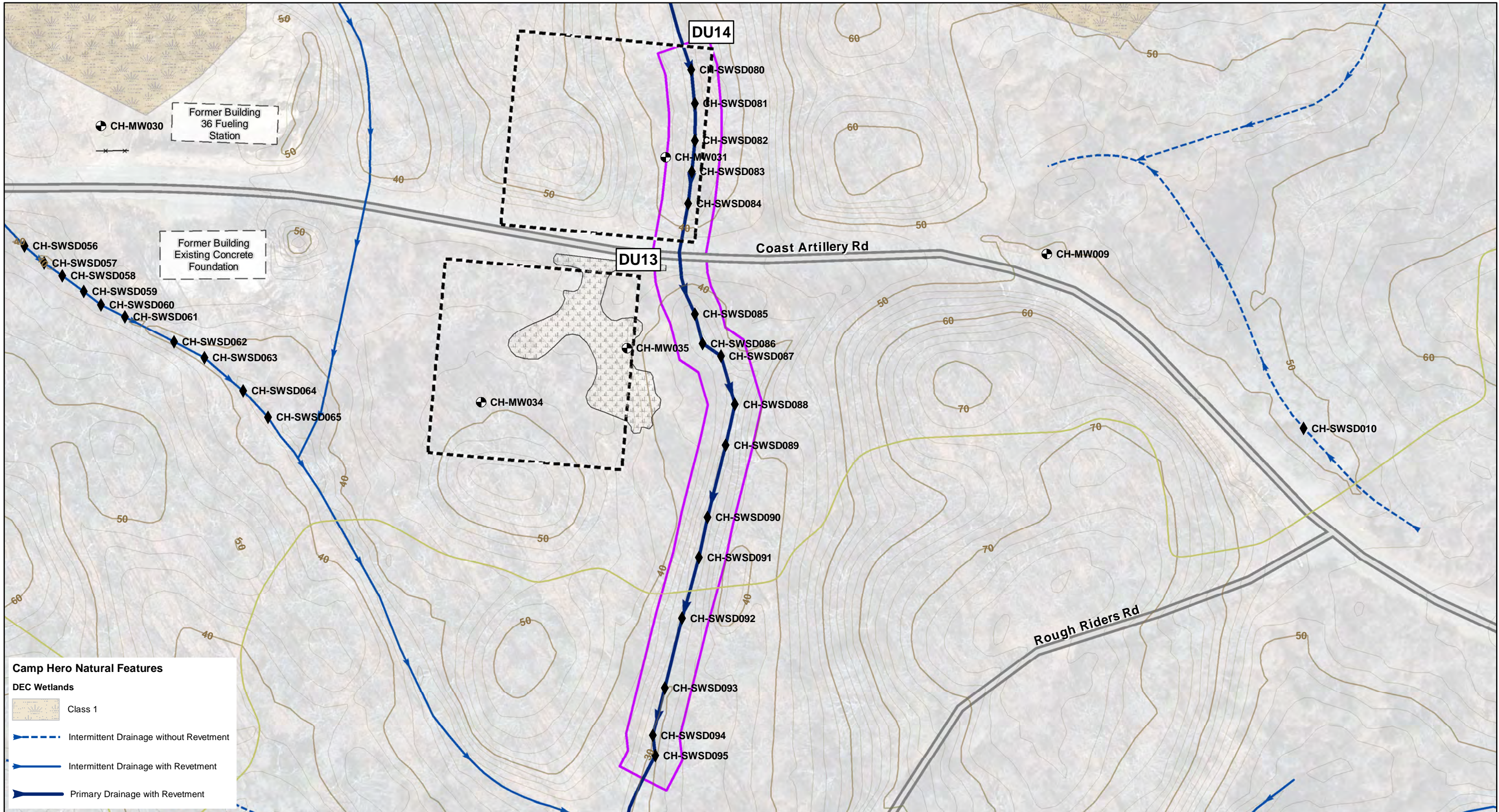
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**RI Sampling Locations
SEA03**
Camp Hero Remedial Investigation
Montauk, New York

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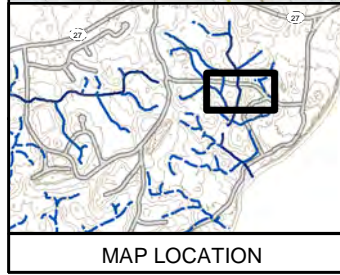
<p>AECOM</p> <p>3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901</p>			
<p>Distribution of Total PAHs in Sediment, SEA03</p> <p>Camp Hero Remedial Investigation Montauk, New York</p>			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: October 2018	Figure 4-21b



Camp Hero Natural Features

DEC Wetlands

- Class 1
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage with Revetment



Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit
- State Park Trails
- Battery 113 Trail
- Fence
- Topographic Contours
- 10 ft
- 2 ft
- Park-Maintained Lawn

Scale: 1 inch = 70 feet

North arrow and scale bar.

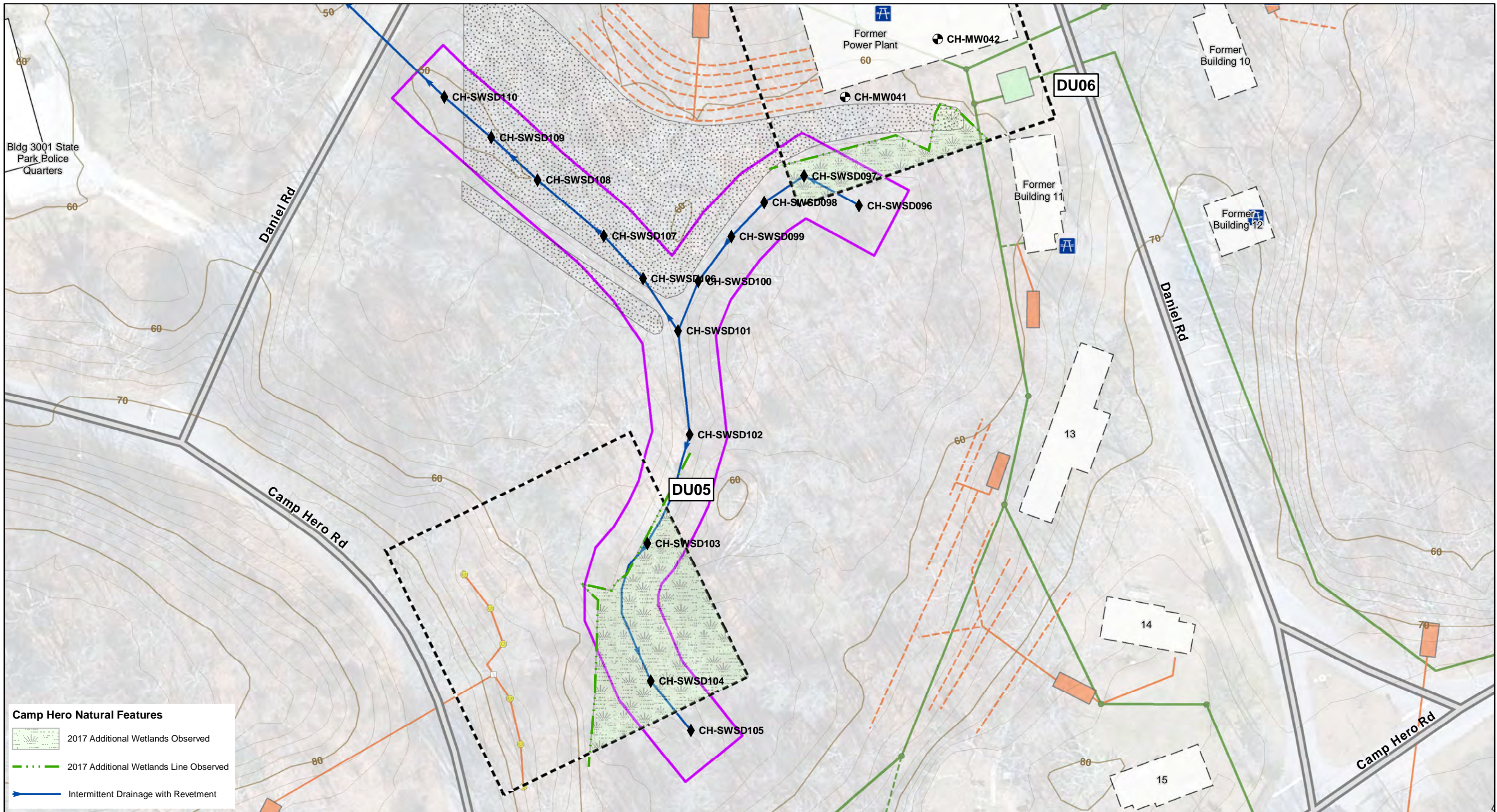
AECOM

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**RI Sampling Locations
SEA04**

Camp Hero Remedial Investigation
Montauk, New York

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Camp Hero Natural Features

- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage with Revetment



MAP LOCATION

Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit

- State Park Areas
- Camping
- Picnic
- Primary Sanitary Sewer Line
- Drain Tilefields
- Septic Tank
- Other
- Box (cleanout or other)

- Cesspool
- Septic Lines
- Manhole
- Coal Fragments

Note
Wetlands were evaluated only within Decision Units.

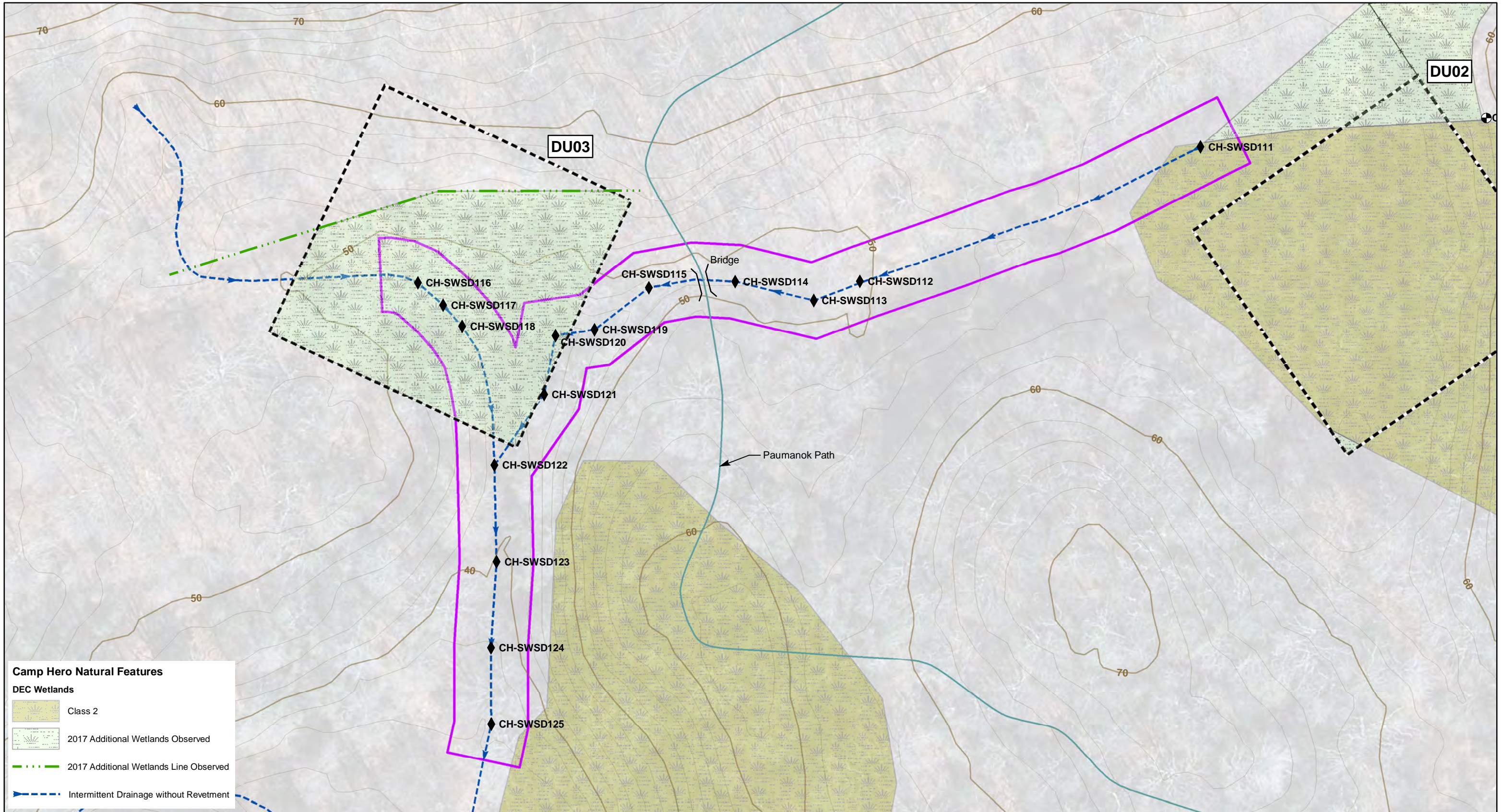
Topographic Contours

- 10 ft
- 2 ft

N
W E S

0 25 50 Feet
1 inch = 50 feet

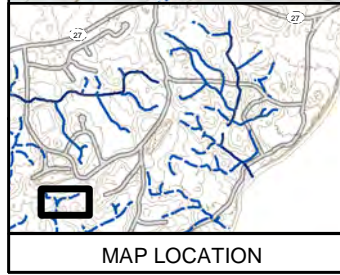
		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		RI Sampling Locations SEA05 Camp Hero Remedial Investigation Montauk, New York	
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-23a



Camp Hero Natural Features

DEC Wetlands

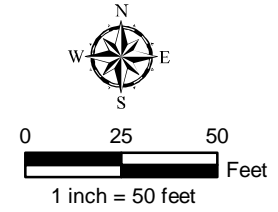
- Class 2
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage without Revetment



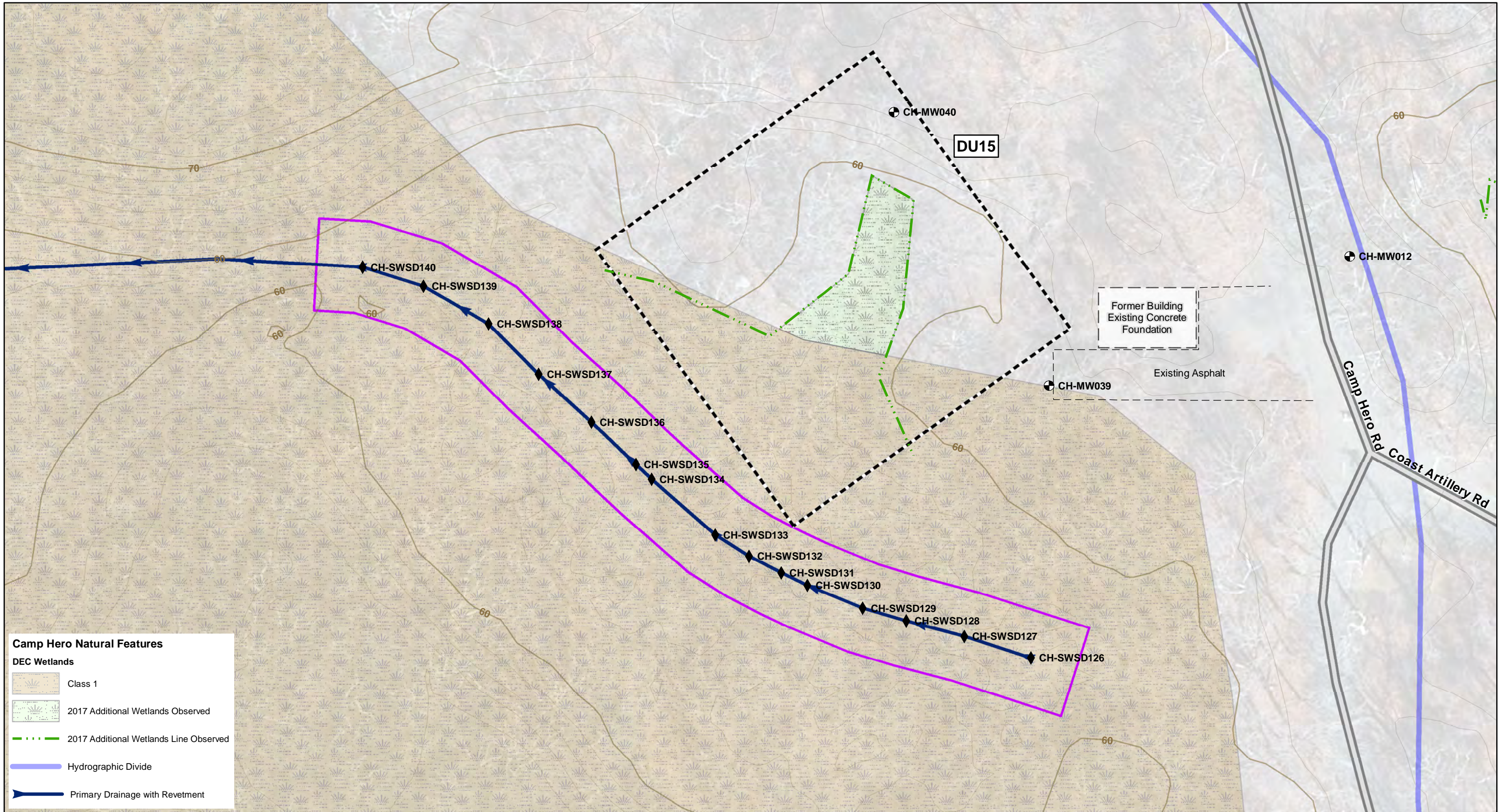
Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit
- State Park Trails
- Paumanok Path
- Fence
- Topographic Contours 10 ft
- Topographic Contours 2 ft

Note
Wetlands were evaluated only within Decision Units.



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RI Sampling Locations SEA06			
Camp Hero Remedial Investigation Montauk, New York			
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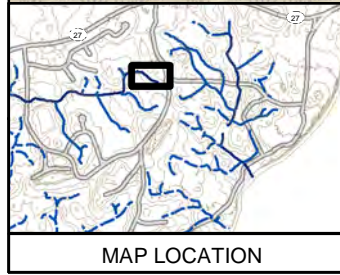
Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed

Hydrographic Divide

Primary Drainage with Revetment



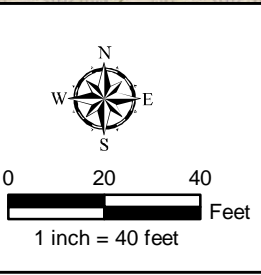
Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit

Topographic Contours

- 10 ft
- 2 ft

Note
Wetlands were evaluated only within Decision Units.



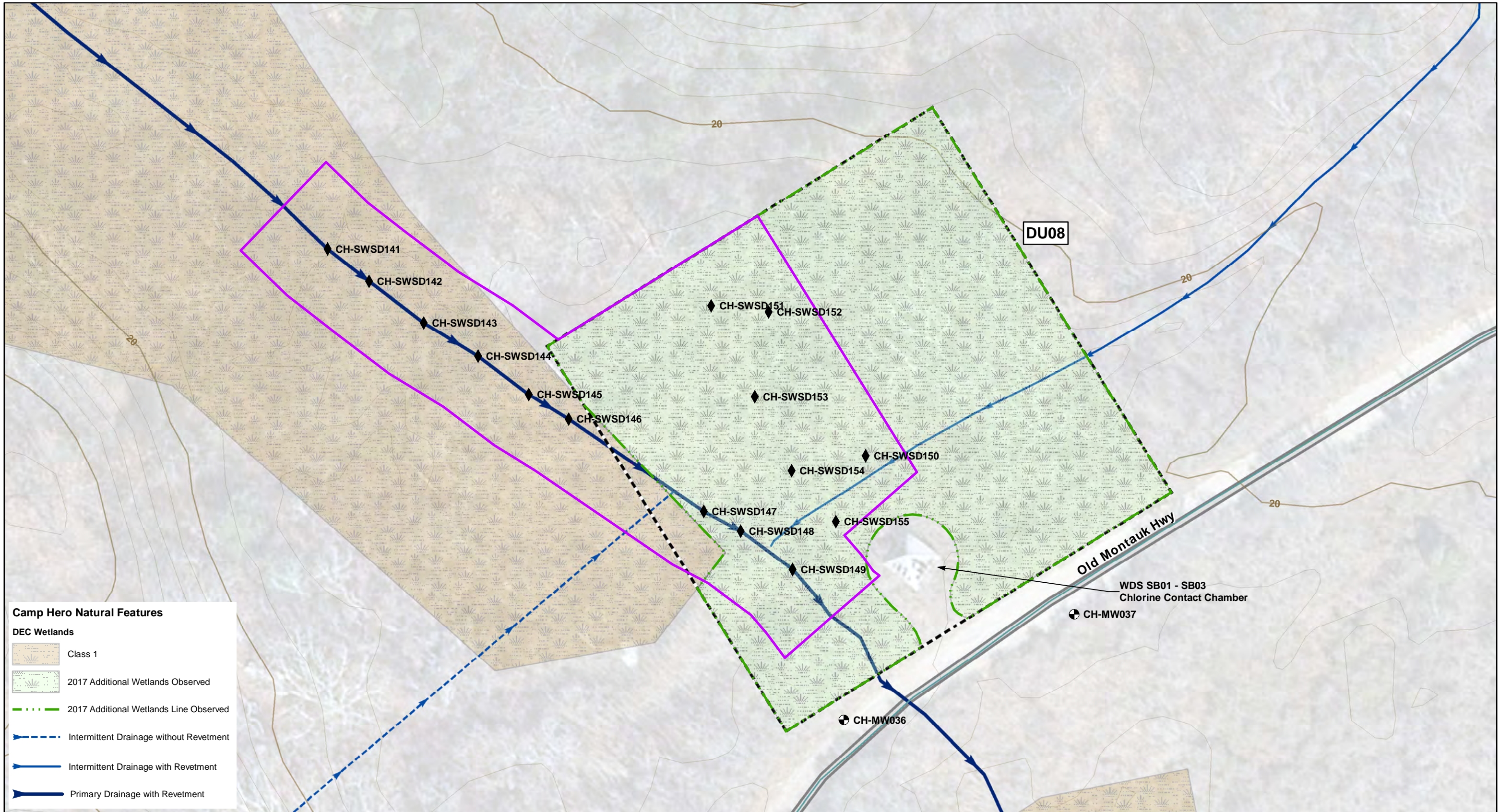
AECOM

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**RI Sampling Locations
SEA07**

Camp Hero Remedial Investigation
Montauk, New York

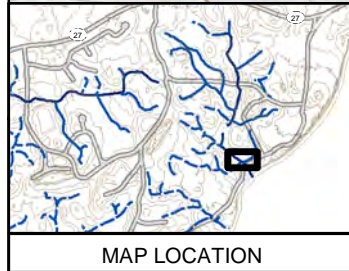
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-25a
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Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage with Revetment

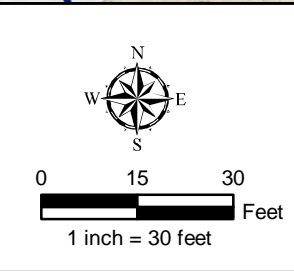


Camp Hero Built Features

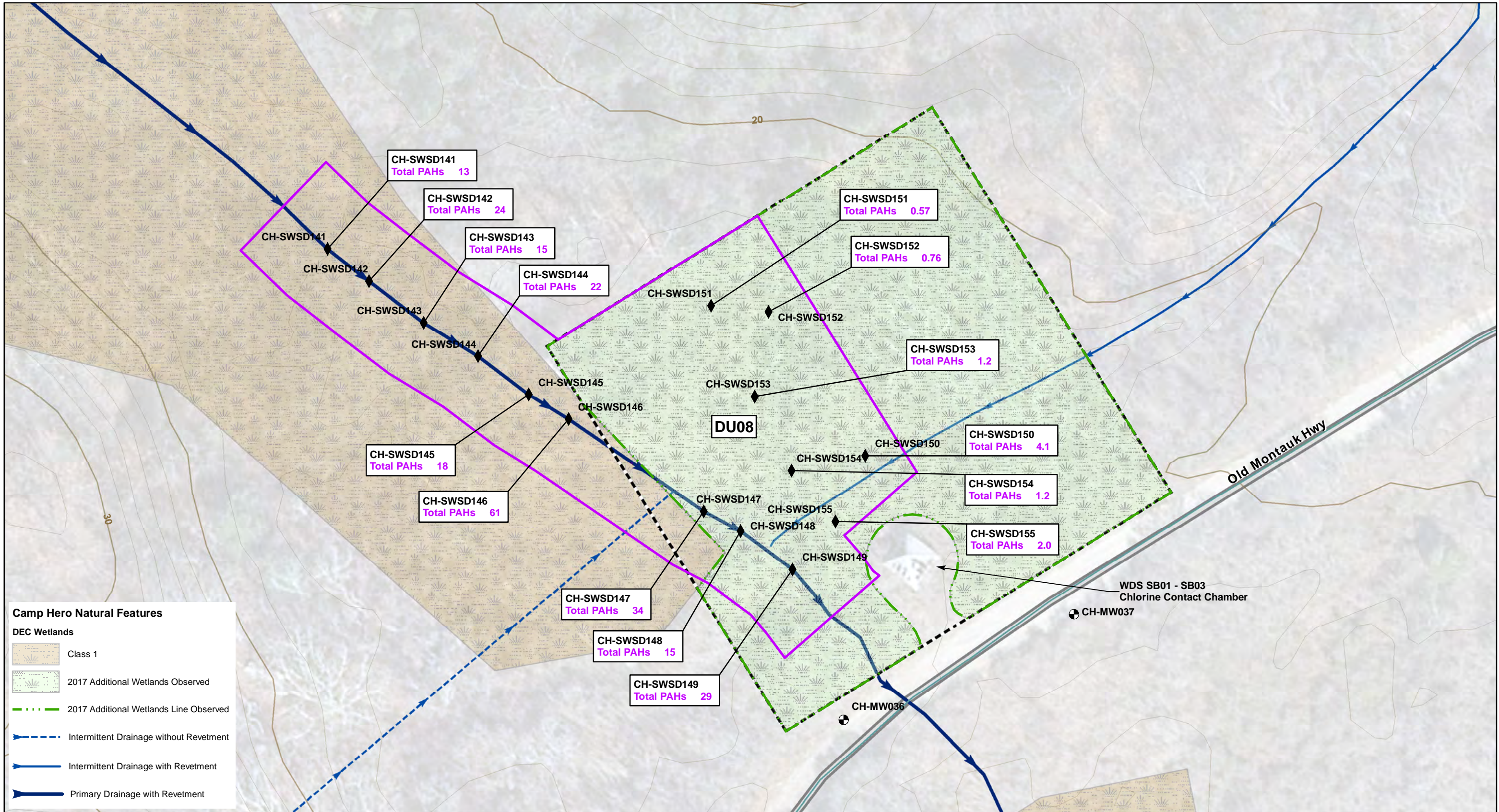
- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit

- State Park Trails
- Paumanok Path
- Topographic Contours**
- 10 ft
- 2 ft

Note
Wetlands were evaluated only within Decision Units.



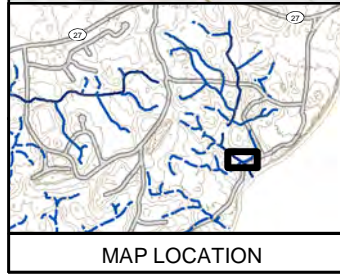
AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
RI Sampling Locations SEA08			
Camp Hero Remedial Investigation Montauk, New York			
PROJECT NO. 60443903	PREPARED BY: JB	DATE: July 2018	Figure 4-26a



Camp Hero Natural Features

DEC Wetlands

- Class 1
- 2017 Additional Wetlands Observed
- 2017 Additional Wetlands Line Observed
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage with Revetment



Camp Hero Built Features

- Phase III Surface Water and Sediment Sampling Location
- Groundwater Monitoring Well
- Stream Exposure Area
- Decision Unit
- State Park Trails
- Paumanok Path
- Topographic Contours**
- 10 ft
- 2 ft

Results
Units are mg/kg.
Purple = PAHs that warranted additional evaluation
as part of the ERA.

Note
Wetlands were evaluated only within Decision Units.

		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		Distribution of Total PAHs in Sediment, SEA08 Camp Hero Remedial Investigation Montauk, New York	
PROJECT NO. 60443903	PREPARED BY: JB	DATE: October 2018	Figure 4-26b



		AECOM		3101 Wilson Blvd., Suite 900 Arlington, VA 22201 T 703-682-4900 F 703-682-4901	
		Risk Assessment Process Flow Chart			
Camp Hero Remedial Investigation Montauk, New York					
PROJECT NO. 60443903	PREPARED BY: JB	DATE: October 2018	Figure 6-1		

FIGURE REFERENCES

- Cashin Associates, 1998. *Camp Hero Feasibility Study, Hazardous Materials Survey, Preliminary Report*, Amended Final. *New York State Office of Parks, Recreation and Historic Preservation*. Amended Final, Montauk, New York. June.
- New York Flora Association (NYFA), 2018. *New York Flora Atlas*. Accessed at <http://www.newyork.plantatlas.usf.edu>. March.
- New York State (NYS) Office of Information Technology Services (ITS) Geographic Information System (GIS) Program Services, 2017. *New York State GIS Clearinghouse*. Open Source Geospatial Database. Accessed at <https://gis.ny.gov/gisdata/>.
- New York State Department of Environmental Conservation (NYSDEC), 2007. *List of Endangered, Threatened and Special Concern Fish & Wildlife Species of New York State*. Accessed at <http://www.dec.ny.gov/animals/7494.html>. August.
- New York State Office of Parks, Recreation, and Historic Preservation (NYSOPRHP), 2015. *Montauk Point and Camp Hero State Park, 2000 Montauk Highway, Montauk, NY 11954* [map]. Albany, NY: New York State GIS Program Office and Bureau.
- United States Army Corps of Engineers (USACE), 1942. *Harbor Defenses of Long Island Sound, Troop Housing General Layout Plan, Camp Hero, Montauk Pt., Long Island, New York* [map]. New York, New York: US Army Engineer District. December 12.
- USACE, 1991. *Camp Hero Montauk Point, Long Island, New York* [map]. New York, New York: US Army Engineer District.
- USACE, 1992. *Site Plan, Building Demolition/Debris Removal (BD/DR) and Sealing of Exterior Bunker Openings* [map]. New York, New York: US Army Engineer District.
- United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), 2013. *National Agriculture Imagery Program (NAIP)*. Geospatial Data Gateway (GDG). Accessed at <https://datagateway.nrcs.usda.gov/>.
- USDA NRCS, 2018. Soil Survey Geographic Database (SSURGO). Accessed at <https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/survey/>.
- United States Fish and Wildlife Service (USFWS), 2015. National Wetlands Inventory (NWI). Accessed at <http://www.fws.gov/wetlands/>.

USFWS, 2016. *Species by County Report, Suffolk County, New York*. Environmental Conservation Online System (ECOS). Accessed at http://ecos.fws.gov/tess_public/reports/species-by-current-range-county?fips=36103. January.

United States Geological Survey (USGS), 1956. *Montauk Point Quadrangle, New York – Suffolk Co* [map]. 7.5 minute series (topographic). Washington D.C.: United States Geologic Survey, U.S. Department of the Interior.

USGS, 2018. National Hydrography Dataset (NHD). Accessed at <https://nhd.usgs.gov/>. April.