

APPENDIX A. MAPS

This appendix contains the following maps for this Culebra RI effort:

- Figure A-01_ASR Map
- Figure A-02_Bombing_Machinegun_Range_Frag_Distances
- Figure A-03_MRS 6 RI Investigation Design Map
- Figure A-04_MRS 8 RI Investigation Design Map
- Figure A-05_MRS 9 RI Investigation Design Map
- Figure A-06_MRS 10 RI Investigation Design Map
- Figure A-07_MRS 11 RI Investigation Design Map_rev2
- Figure A-08_MRS 13 RI Investigation Design Map
- Figure A-09_MRS 6 DGM Anom Density Map w_Grid Placement_rev3
- Figure A-10_MRS 8 DGM Anom Density Map w_Grid Placement
- Figure A-11_MRS 9 DGM Anom Density Map w_Grid Placement
- Figure A-12_MRS 10 DGM Anom Density Map w_Grid Placement
- Figure A-13_MRS 11 DGM Anom Density Map w_Grid Placement_rev3
- Figure A-14_MRS 6 Underwater RI Transect Map
- Figure A-15_MRS 8 Underwater RI Transect Map
- Figure A-16_MRS 9 Underwater RI Transect Map
- Figure A-17_MRS 10 Underwater RI Transect Map
- Figure A-18_MRS 11 Underwater RI Transect Map_rev1
- Figure A-19_MRS 13 Underwater RI Transect Map
- Figure A-20_Culebra Background Soil Sample Locations_rev3
- Figure A-21_MRS 6 Soil Sample MD Map_rev2
- Figure A-22_MRS 8 Soil Sample MD Map_rev2
- Figure A-23_MRS 9 Soil Sample MD Map_rev2
- Figure A-24_MRS 11 Soil Sample MD Map_rev4
- Figure A-25_MRS 6N Soil Sample Detail Map_rev4
- Figure A-26_MRS 6S Soil Sample Detail Map_rev4
- Figure A-27_MRS 8 Soil Sample Detail Map
- Figure A-28_MRS 9 Soil Sample Detail Map_rev3
- Figure A-29_MRS 11N Soil Sample Detail Map_rev4

- Figure A-30_MRS 13 Soil Sample Detail Map
- Figure A-31_MRS 6 Intrusive Results Map_rev4
- Figure A-32_MRS 8 Intrusive Results Map_rev4
- Figure A-33_MRS 9 Intrusive Results Map_rev4
- Figure A-34_MRS 10 Intrusive Results Map_rev4
- Figure A-35_MRS 11 Intrusive Results Map_rev4
- Figure A-36_MRS 13 Intrusive Results Map_rev4
- Figure A-37_Right of Entry Map_rev4
- Figure A-38_MRS10_11 Revised Boundary Map

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Not To Scale

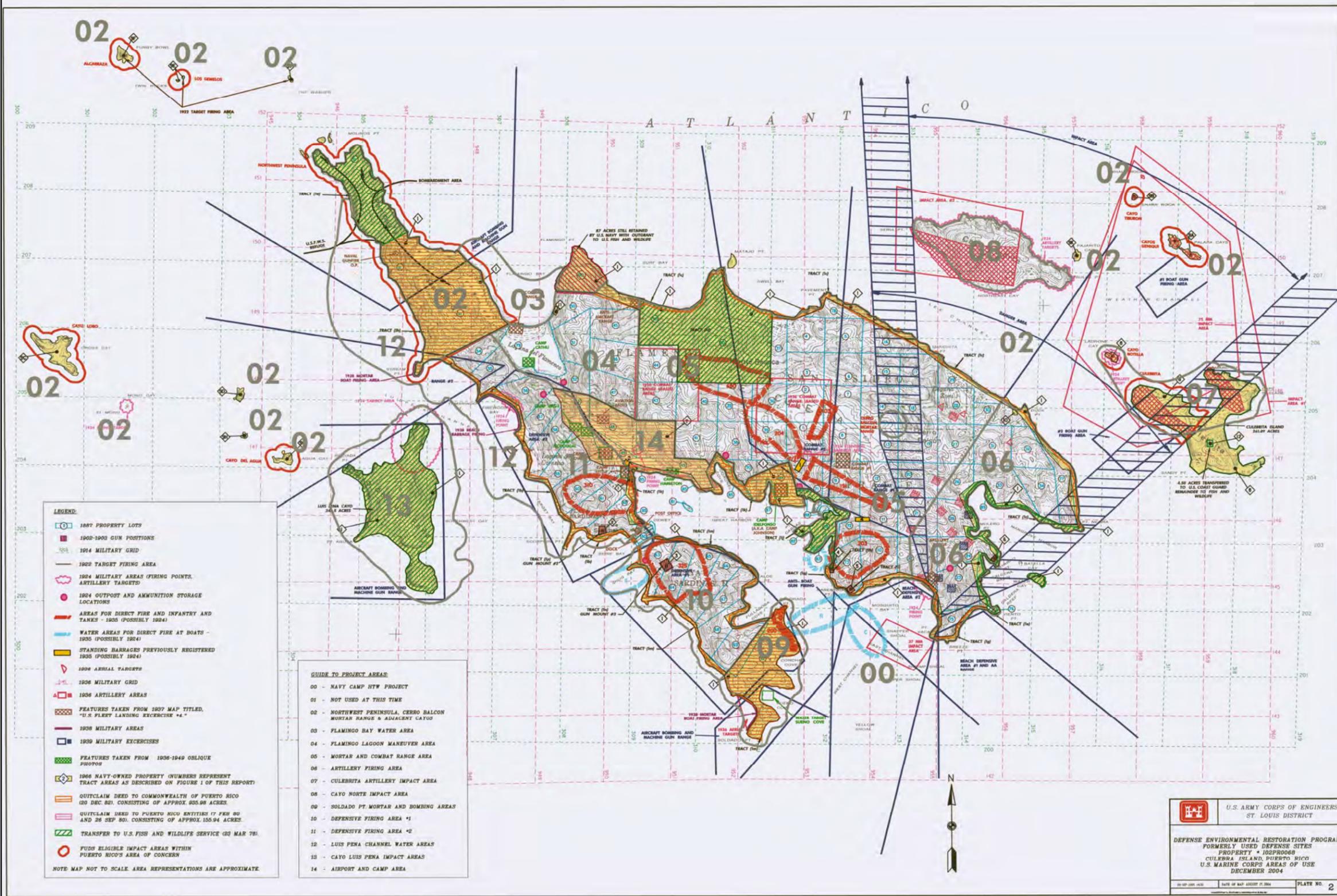
Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-1

Plate 2 From Supplemental Archives Search Report

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022



U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FORMERLY USED DEFENSE SITES
PROPERTY # 105PRO066
CULEBRA ISLAND, PUERTO RICO
U.S. MARINE CORPS AREAS OF USE
DECEMBER 2004

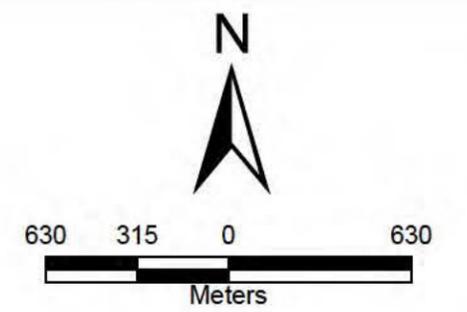
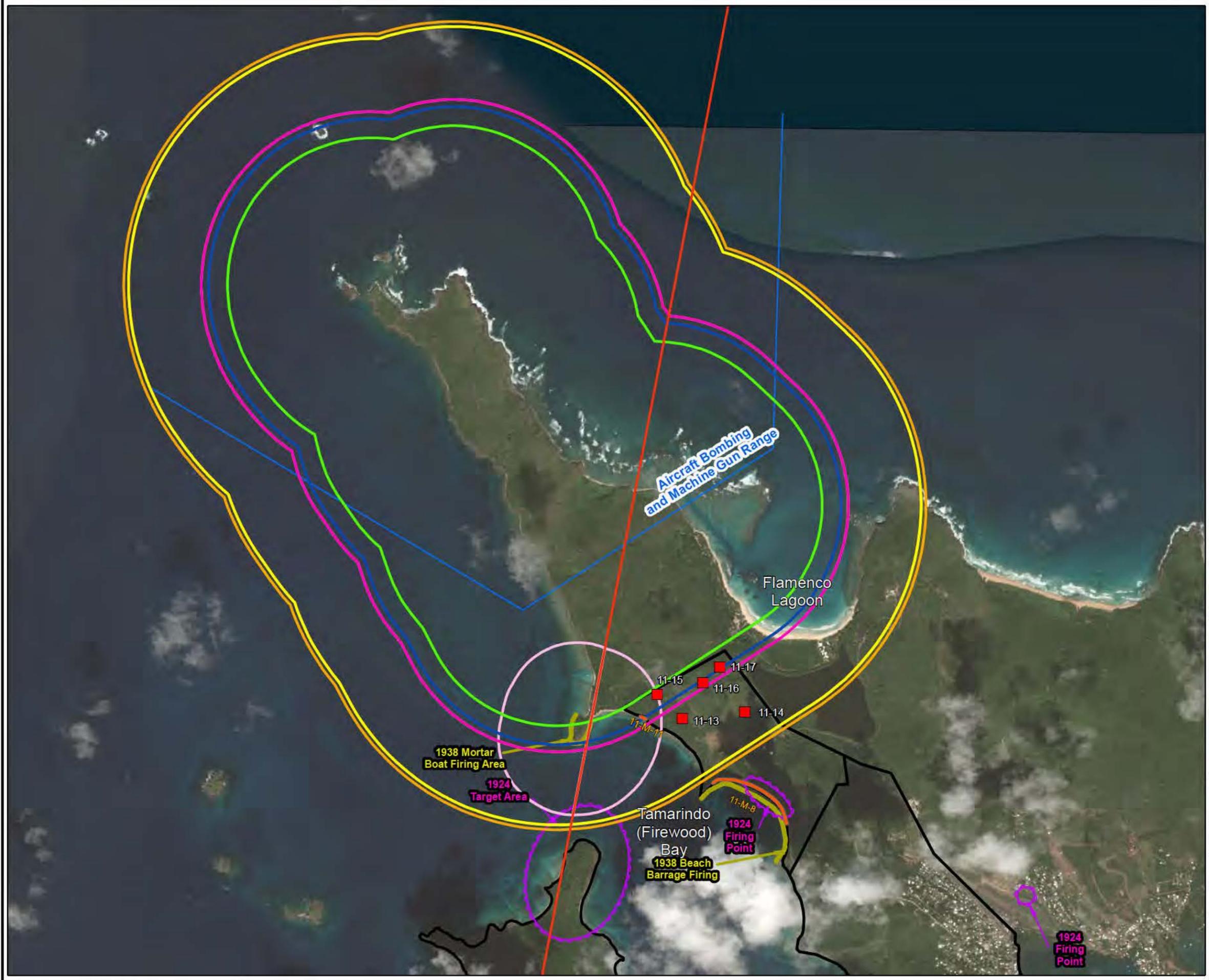
DATE OF MAP: 02/01/2004 SCALE OF MAP: AS SHOWN ON FIG. 1 PLATE NO. 2

<i>USA</i> Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: JAL	Scale: Not To Scale	Rev: 1	
Checked By:	Date Drawn: 4/30/2014		
Submitted By:	Revision Date: 1/2/2015		



Path: S:\Culebra1\RIFS 2009\RI
Report\Data Deliverable\MXD\Fig A-
01_ASR Map.mxd





Data is projected to the UTM Coordinate System:
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Remedial Investigation

Figure A-02

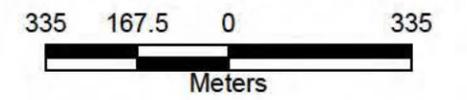
Fragmentation Distances For The Aircraft Bombing And Machine Gun Range

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend	
■ MD found in grid	Fragmentation Distances
 MD Found on Transect	 M43A1 81mm Mortar- 1,579 ft
 1924 Military Area	 MK82- 3,028 ft
 1938 Military Areas	 MK83- 3,447 ft
 1939 Military Exercises	 8" MK24- 3,605 ft
 Safety Line For Naval Gunfire	 14" AP- 5,214 ft
 MRS 11 Boundary	 16" AP- 5,321 ft

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 630 meters	Rev:	
Checked By:	Date Drawn: 1/6/2015		
Submitted By:	Revision Date:		

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A- 02_MRS 11.mxd	
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NAD 1983 UTM Zone 20N

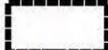
Remedial Investigation

Figure A-3

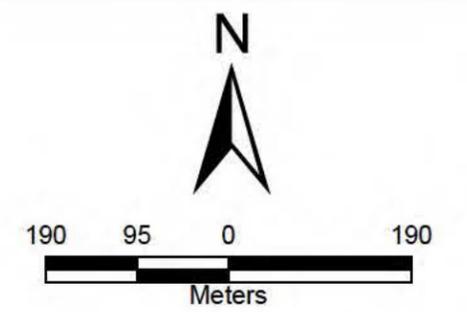
MRS 06 RI Investigation Design Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

-  MRS Boundary
-  DGM Grid
-  Analog Transect
-  DGM Transect

		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 335 meters	Rev: 1	
Checked By:	Date Drawn: 7/11/2012		
Submitted By:	Revision Date: 1/5/2015		
		Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A- 03_MRS 6 RI Investigation Design Map.mxd	
			



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

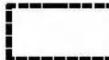
Remedial Investigation

Figure A-4

MRS 08 RI Investigation Design Map

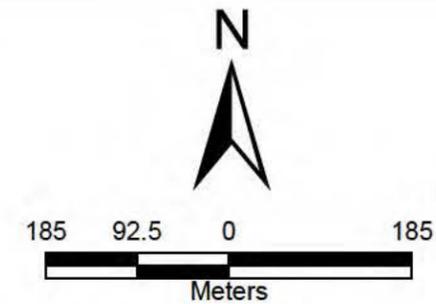
Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

-  MRS Boundary
-  DGM Grid
-  Analog Transect
-  DGM Transect

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 190 meters	Rev: 1	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date: 1/5/2015		

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Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-5

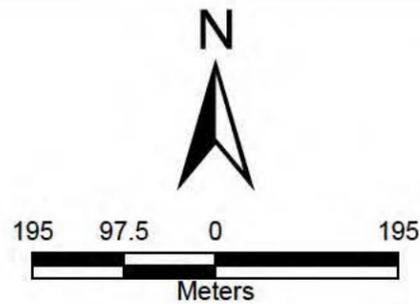
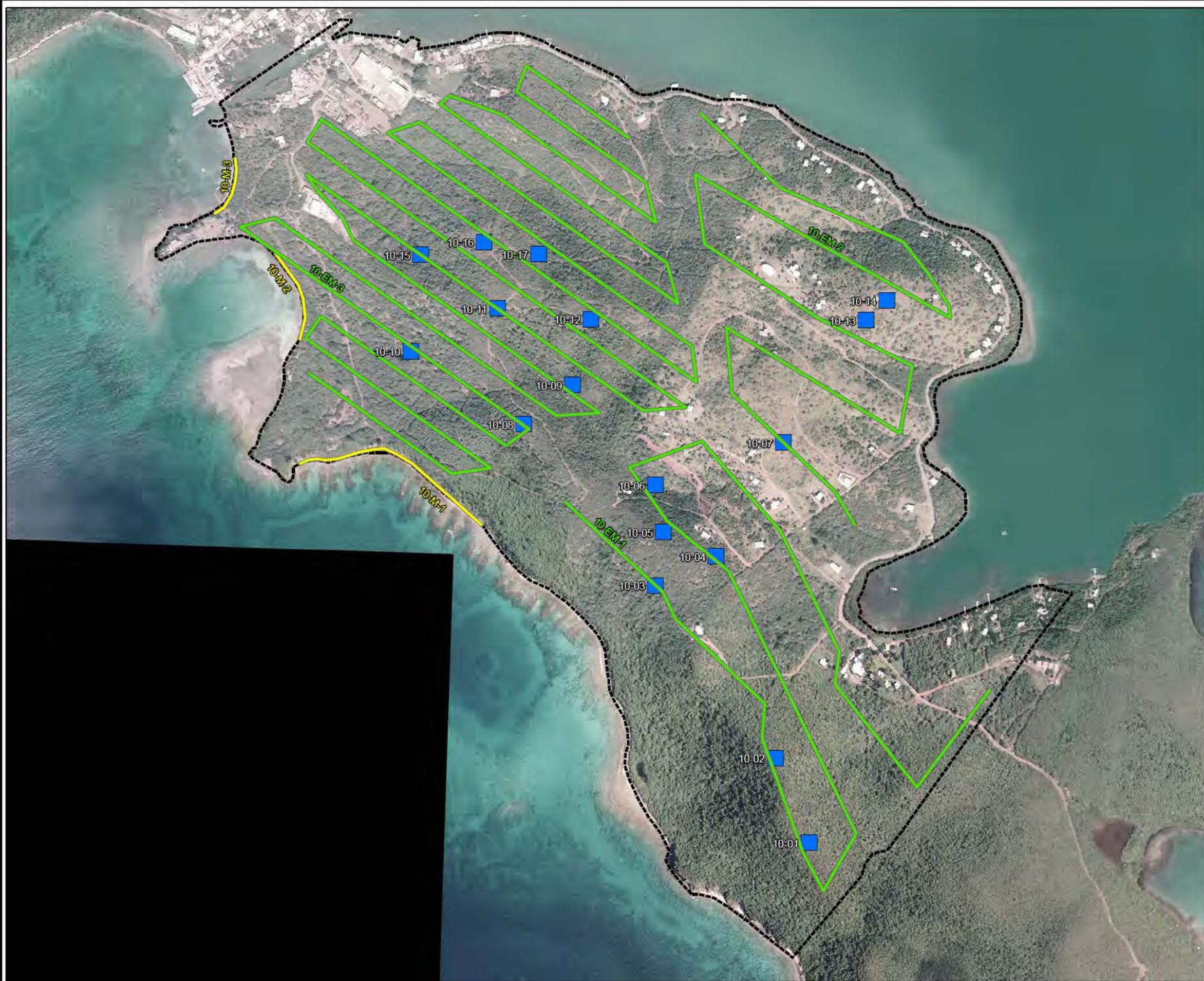
MRS 09 RI Investigation Design Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

-  MRS Boundary
-  DGM Grid
-  Analog Transect
-  DGM Transect

		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 185 meters	Rev: 1	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date: 1/5/2015		
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A- 05_MRS 9 RI Investigation Design Map.mxd		



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-6

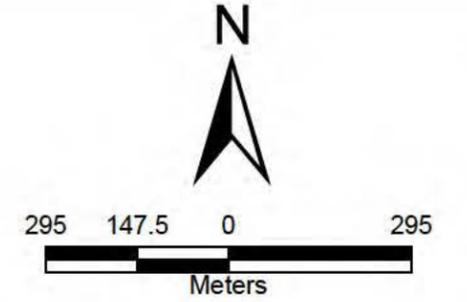
MRS 10 RI Investigation Design Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

-  MRS Boundary
-  DGM Grid
-  Analog Transect
-  DGM Transect

		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 195 meters	Rev: 1	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date: 1/5/2015		
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Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-7

MRS 11 RI Investigation Design Map

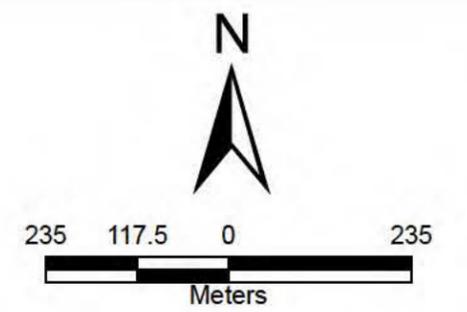
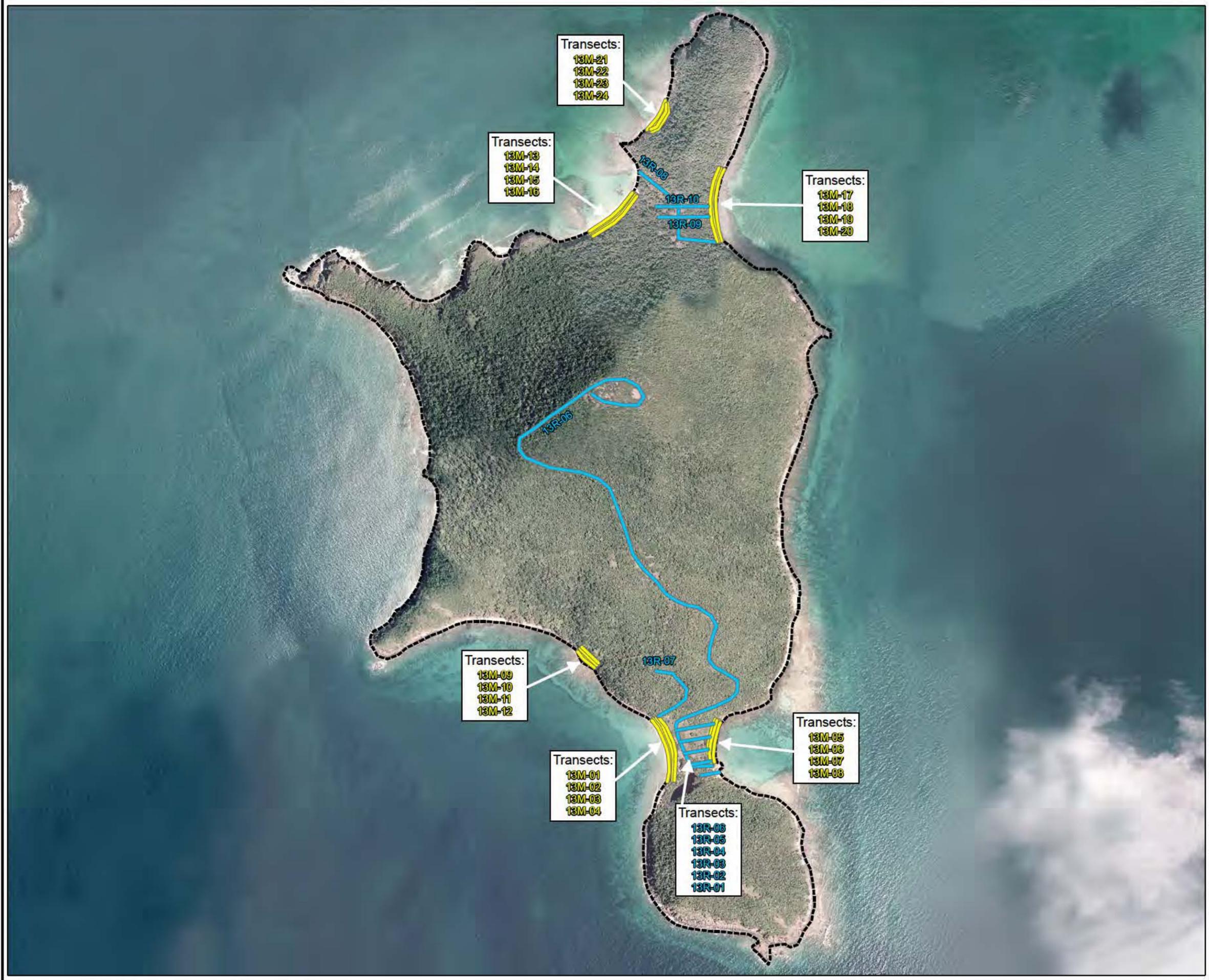
Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- MRS Boundary
- DGM Grid
- Analog Transect
- DGM Transect

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 295 meters	Rev: 2	
Checked By:	Date Drawn: 8/5/2015		
Submitted By:	Revision Date: 8/5/2015		

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-07_MRS 11 RI Investigation Design Map.mxd	
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Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-8

MRS 13 RI Investigation Design Map

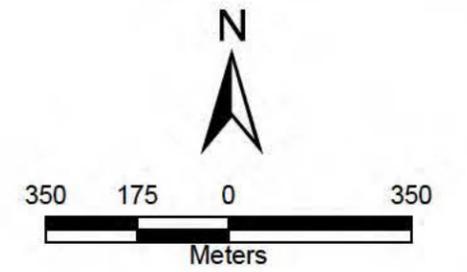
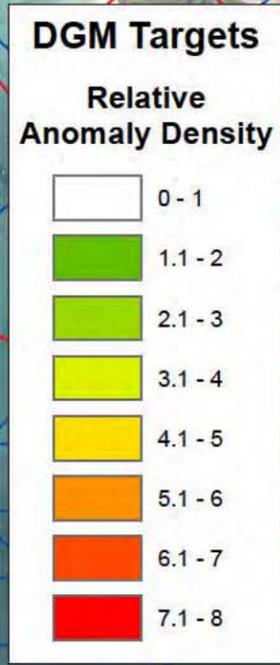
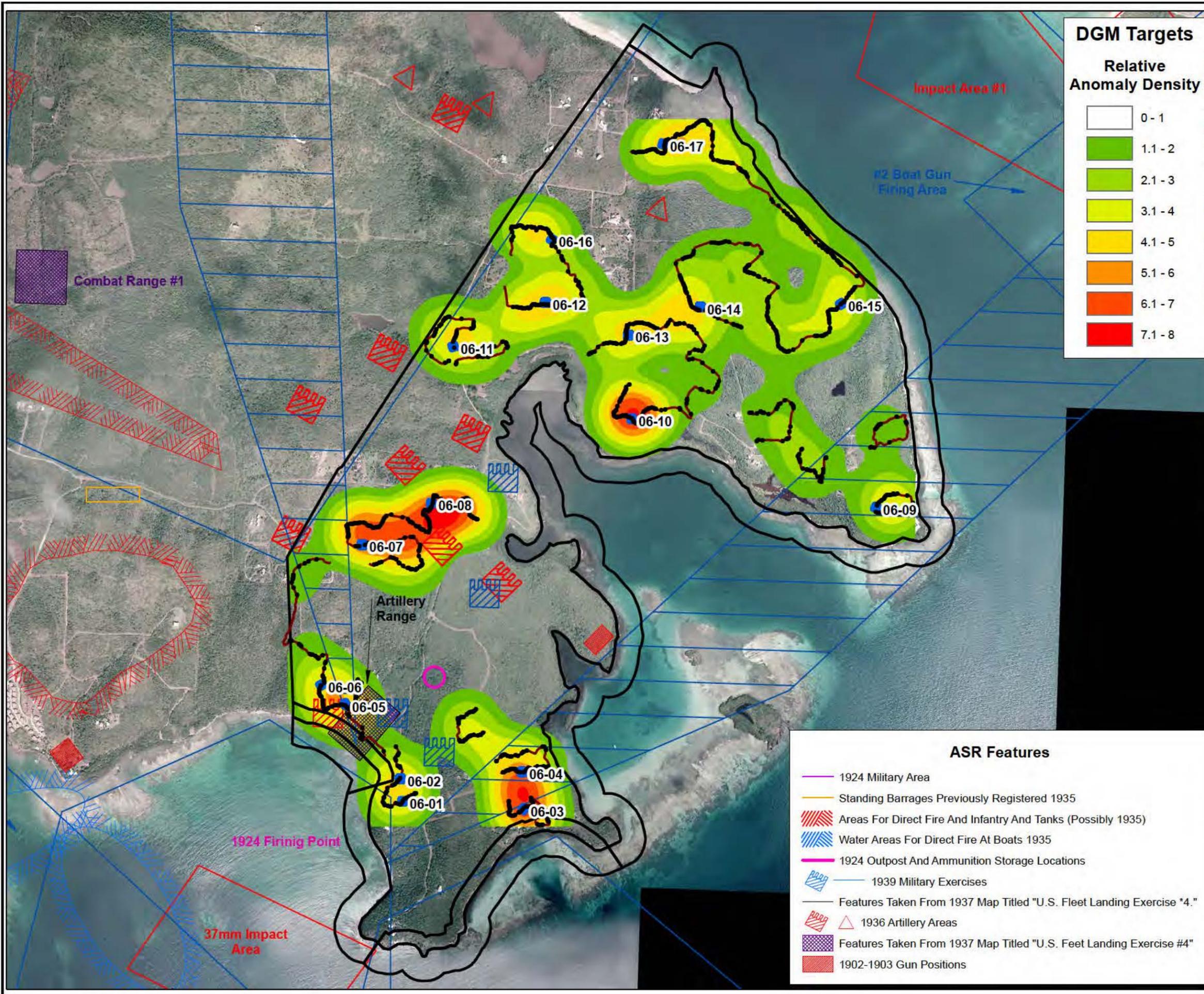
Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- MRS Boundary
- Analog Transect**
- Beach
- Inland

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 235 meters	Rev: 1	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date: 1/5/2015		

Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-08_MRS 13 RI Investigation Design Map.mxd



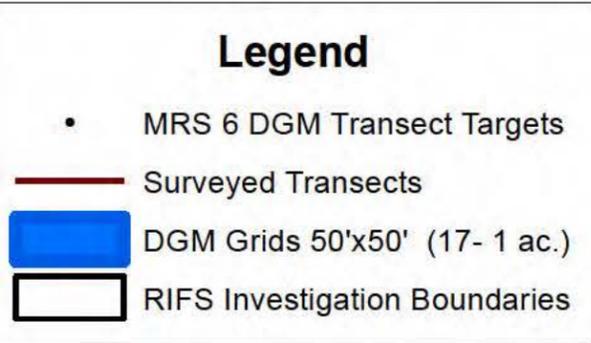
Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

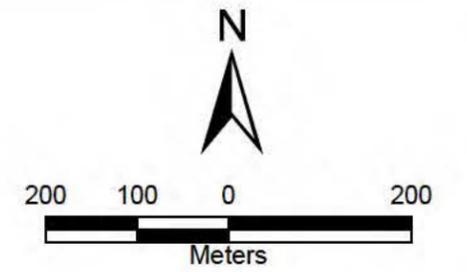
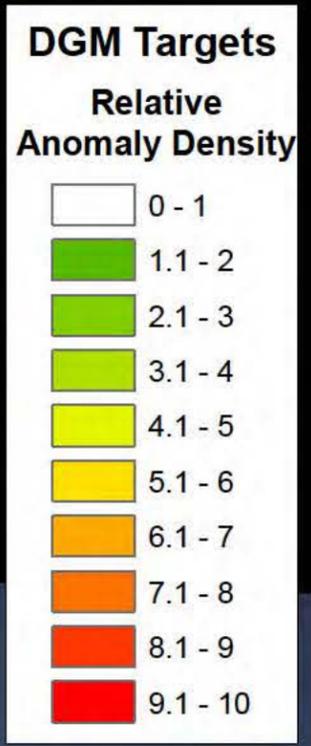
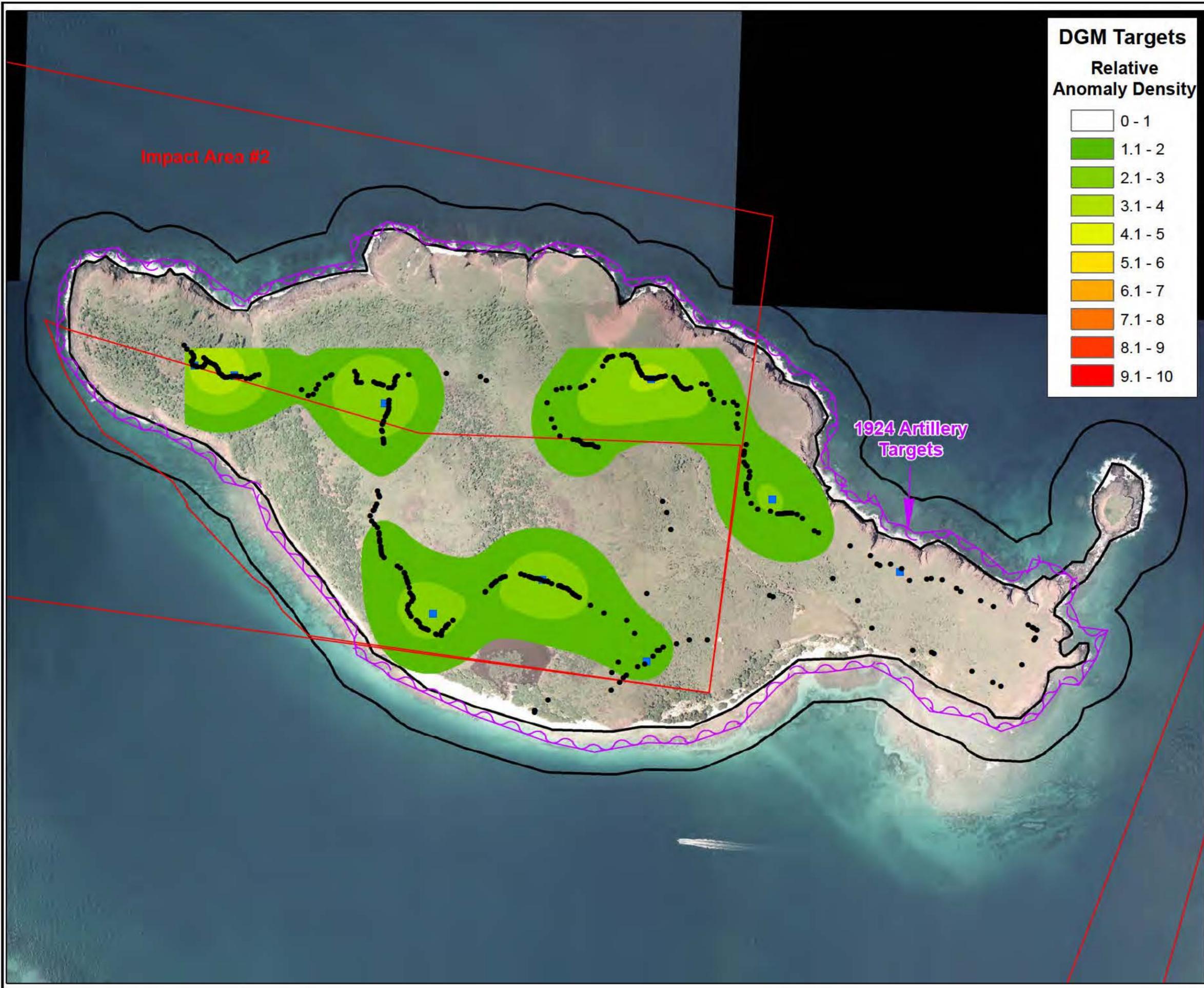
Figure A-9

MRS 06 DGM Anomaly Density Map with Grid Placement

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022



USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 350 meters	Rev: 3	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 3/9/2015		
Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A- 09_MRS 6 DGM Anom Density Map w_Grid Placement.mxd			



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

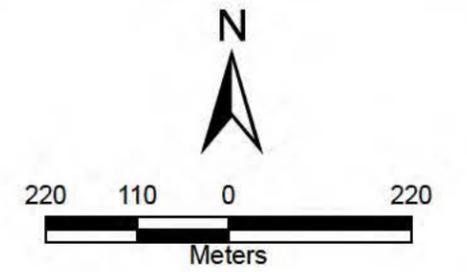
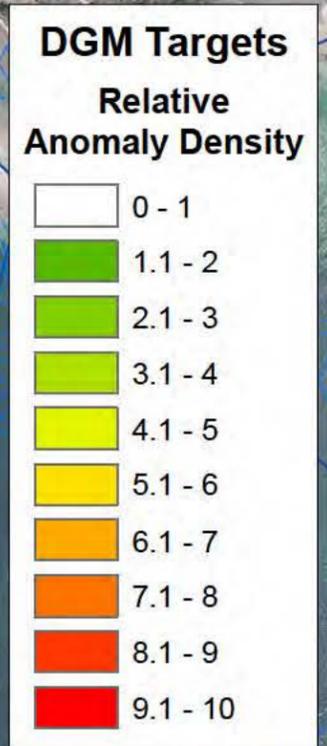
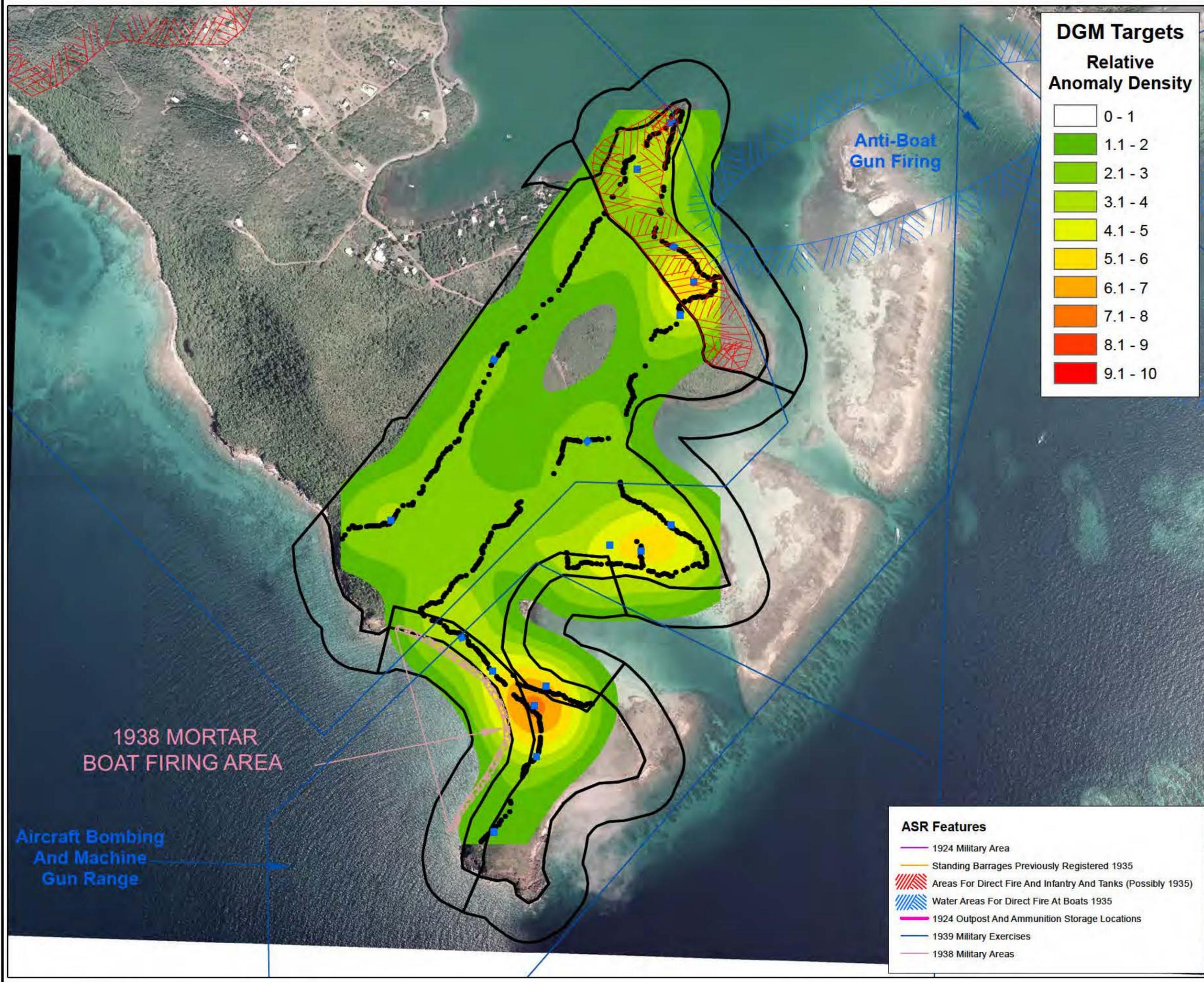
Figure A-10

MRS 08 DGM Anomaly Density Map with Grid Placement

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022



USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 200 meters	Rev: 2	
Checked By:	Date Drawn: 9/13/2014		
Submitted By:	Revision Date: 1/5/2015		
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-10_MRS 8 DGM Anom Density Map w_Grid Placement.mxd		



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

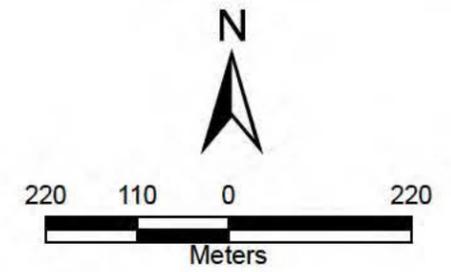
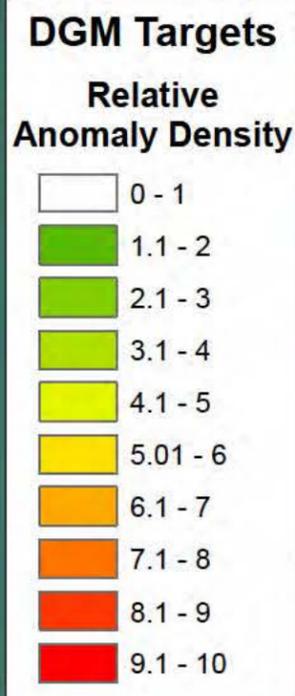
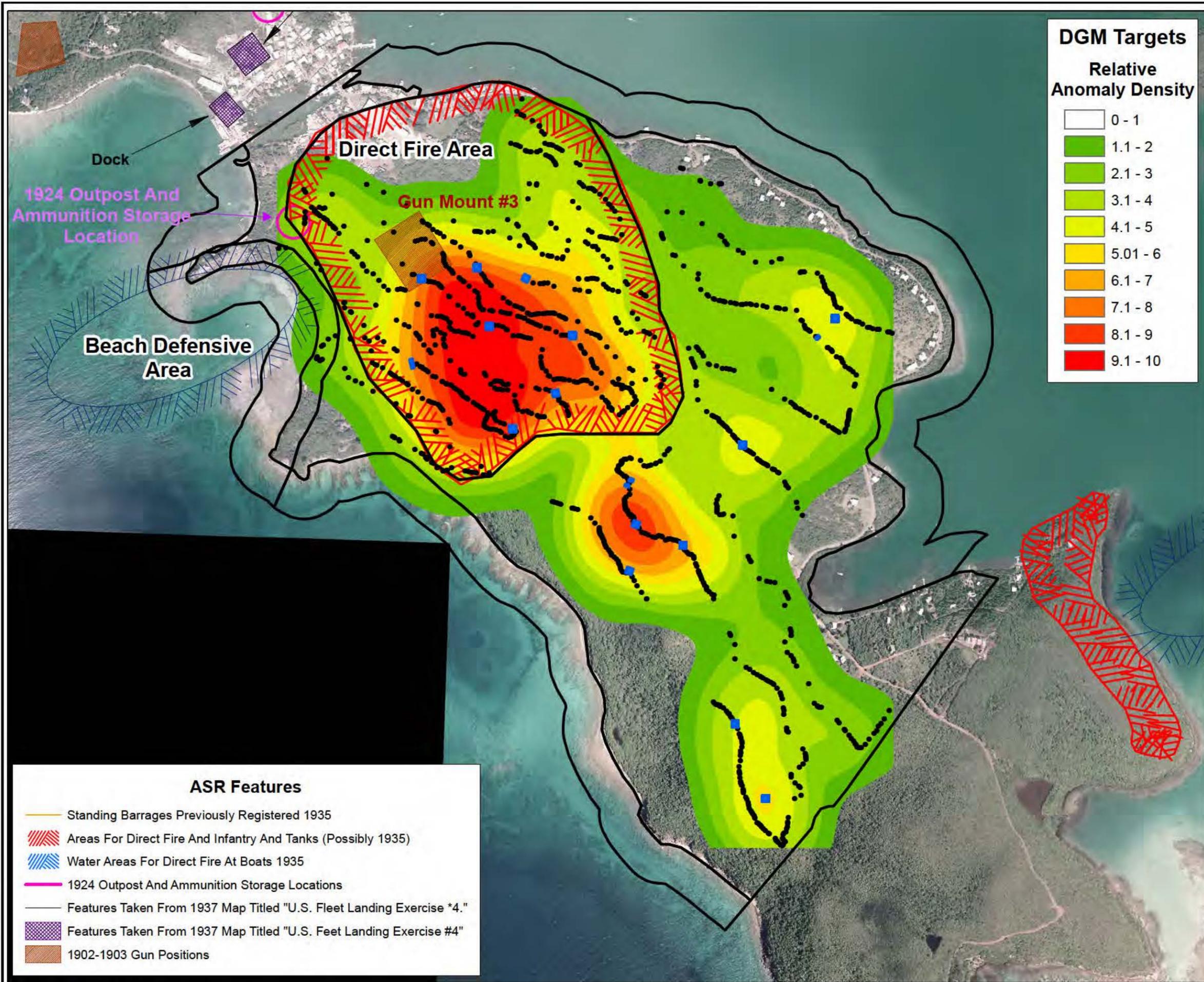
Figure A-11

MRS 9 DGM Anomaly Density Map with Grid Placement

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022



USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 220 meters	Rev: 2	
Checked By:	Date Drawn: 9/13/2014		
Submitted By:	Revision Date: 1/5/2015		
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A-11_MRS 9 DGM Anom Density Map w_Grid Placement.mxd		



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-12

MRS 10 DGM Anomaly Density Map with Grid Placement

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

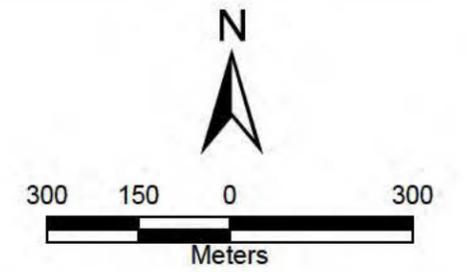
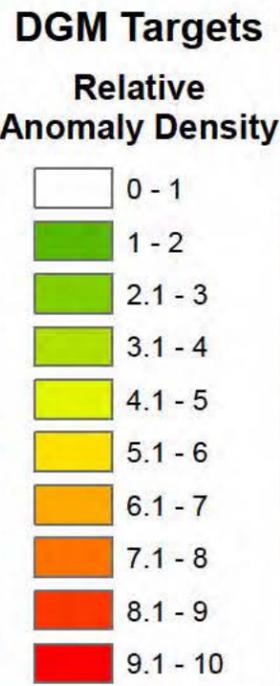
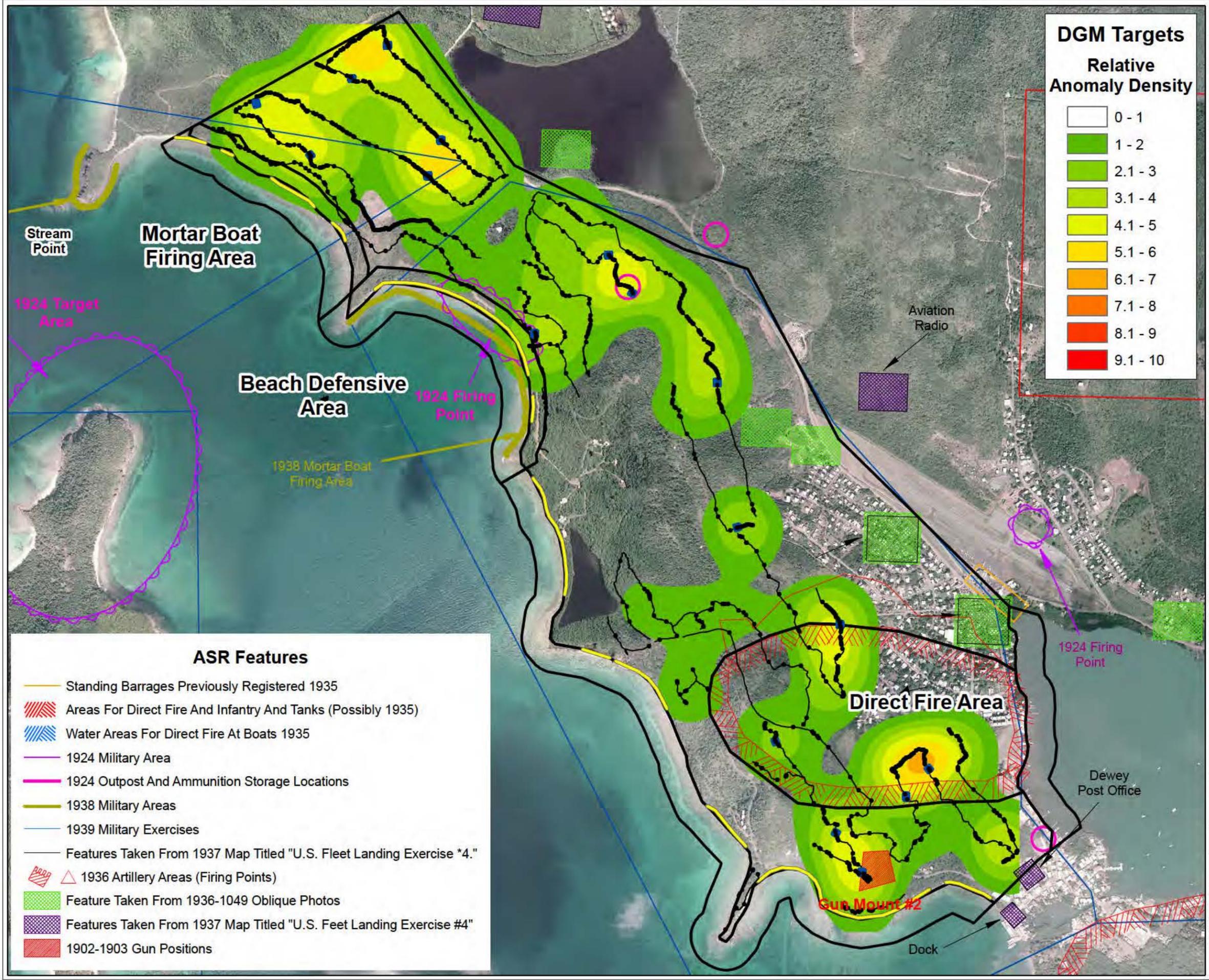
Legend

- Class 1 DGM Targets
- DGM Grids Revised (17- 1 ac.)
- RIFS Investigation Boundaries

ASR Features

- Standing Barrages Previously Registered 1935
- Areas For Direct Fire And Infantry And Tanks (Possibly 1935)
- Water Areas For Direct Fire At Boats 1935
- 1924 Outpost And Ammunition Storage Locations
- Features Taken From 1937 Map Titled "U.S. Fleet Landing Exercise *4."
- Features Taken From 1937 Map Titled "U.S. Feet Landing Exercise #4"
- 1902-1903 Gun Positions

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 220 meters	Rev: 2	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 1/5/2015		
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-12_MRS 10 DGM Anom Density Map w_Grid Placement.mxd		



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-13

MRS 11 DGM Anomaly Density Map with Grid Placement

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

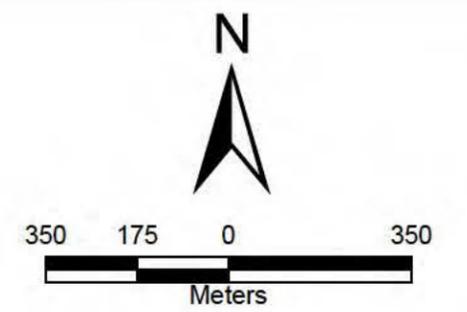
- Class 1 DGM Targets
- Surveyed Transects
- Mag and Dig Land Transects - 1.75 miles
- DGM Grids Revised (17- 1 ac.)
- RIFS Investigation Boundaries

ASR Features

- Standing Barrages Previously Registered 1935
- ▨ Areas For Direct Fire And Infantry And Tanks (Possibly 1935)
- ▨ Water Areas For Direct Fire At Boats 1935
- 1924 Military Area
- 1924 Outpost And Ammunition Storage Locations
- 1938 Military Areas
- 1939 Military Exercises
- Features Taken From 1937 Map Titled "U.S. Fleet Landing Exercise *4."
- ▨ △ 1936 Artillery Areas (Firing Points)
- ▨ Feature Taken From 1936-1049 Oblique Photos
- ▨ Features Taken From 1937 Map Titled "U.S. Feet Landing Exercise #4"
- ▨ 1902-1903 Gun Positions

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 300 meters	Rev: 3	
Checked By:	Date Drawn: 9/13/2014		
Submitted By:	Revision Date: 8/5/2015		

Path: S:\Culebra\1\RIFS 2009\RI Report\Data Deliverable\IMXD\Fig A-13_MRS 11 DGM Anom Density Map w_Grid Placement.mxd



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-14

MRS 06 Underwater Video Transect Coverage

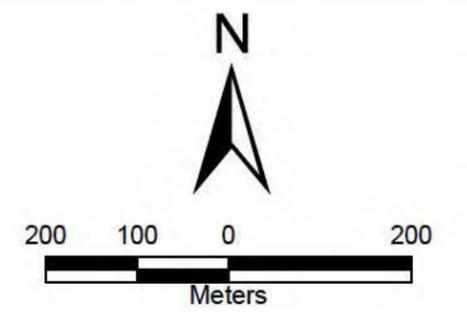
Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- Items of Interest
- Transect Type**
- Underwater Investigation Coverage
- Step Out
- 100 Yd. Investigation Boundary

Total Acreage of Scheduled Transects, MRS 6: 4.11 acres	Total Number of Items of Interest Found, MRS 6: 0
Total Acreage of Underwater Investigation, MRS 6: 4.36acres	

USA <i>Environmental, Inc.</i>		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 350 meters	Rev:	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date:		
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-14_MRS 6 Underwater RI Transect Map.mxd		



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-15

MRS 08 Underwater Video Transect Coverage

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

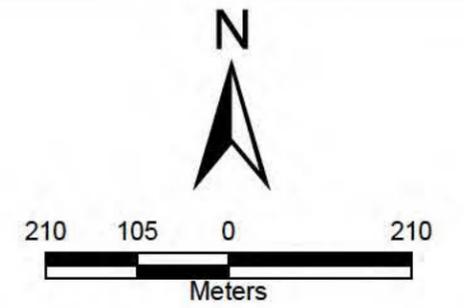
Legend

- Items of Interest
- Transect Type**
- Underwater Investigation Coverage
- Step Out
- 100 Yd. Investigation Boundary

Total Acreage of Scheduled Transects, MRS 8: 2.32 acres	Total Number of Items of Interest Found, MRS 8: 0
Total Acreage of Underwater Investigation, MRS 8: 3.31 acres	

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 200 meters	Rev:	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date:		

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-15_MRS 8 Underwater RI Transect Map.mxd	
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Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-16

MRS 09 Underwater Video Transect Coverage

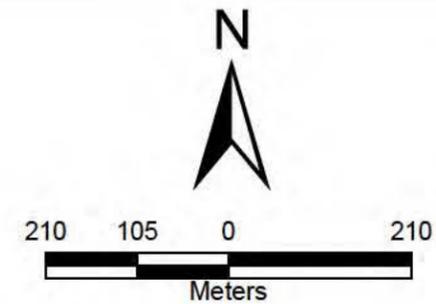
Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- Items of Interest
- Transect Type**
- Underwater Investigation Coverage
- Step Out
- 100 Yd. Investigation Boundary

Total Acreage of Scheduled Transects, MRS 9: 3.10 acres	Total Number of Items of Interest Found, MRS 9: 0
Total Acreage of Underwater Investigation, MRS 9: 3.35 acres	

USA <i>Environmental, Inc.</i>		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 210 meters	Rev:	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date:		
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A- 16_MRS 9 Underwater RI Transect Map.mxd		



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-17

MRS 10 Underwater Video Transect Coverage

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- Items of Interest
- Transect Type**
- Underwater Investigation Coverage
- Step Out
- 100 Yd. Investigation Boundary

Total Acreage of Scheduled Transects, MRS 10: 3.38 acres	Total Number of Items of Interest Found, MRS 10: 0
Total Acreage of Underwater Investigation, MRS 10: 3.82 acres	

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 210 meters	Rev:	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date:		
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-17_MRS 10 Underwater RI Transect Map.mxd		



N

300 150 0 300
Meters

Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-18

MRS 11 Underwater Video Transect Coverage

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- Items of Interest

Transect Type

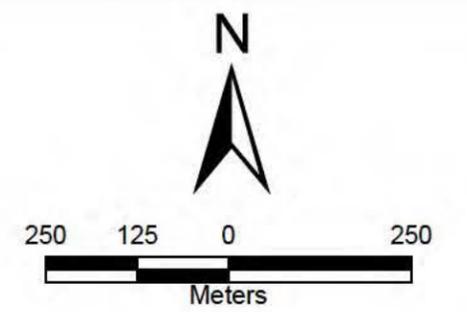
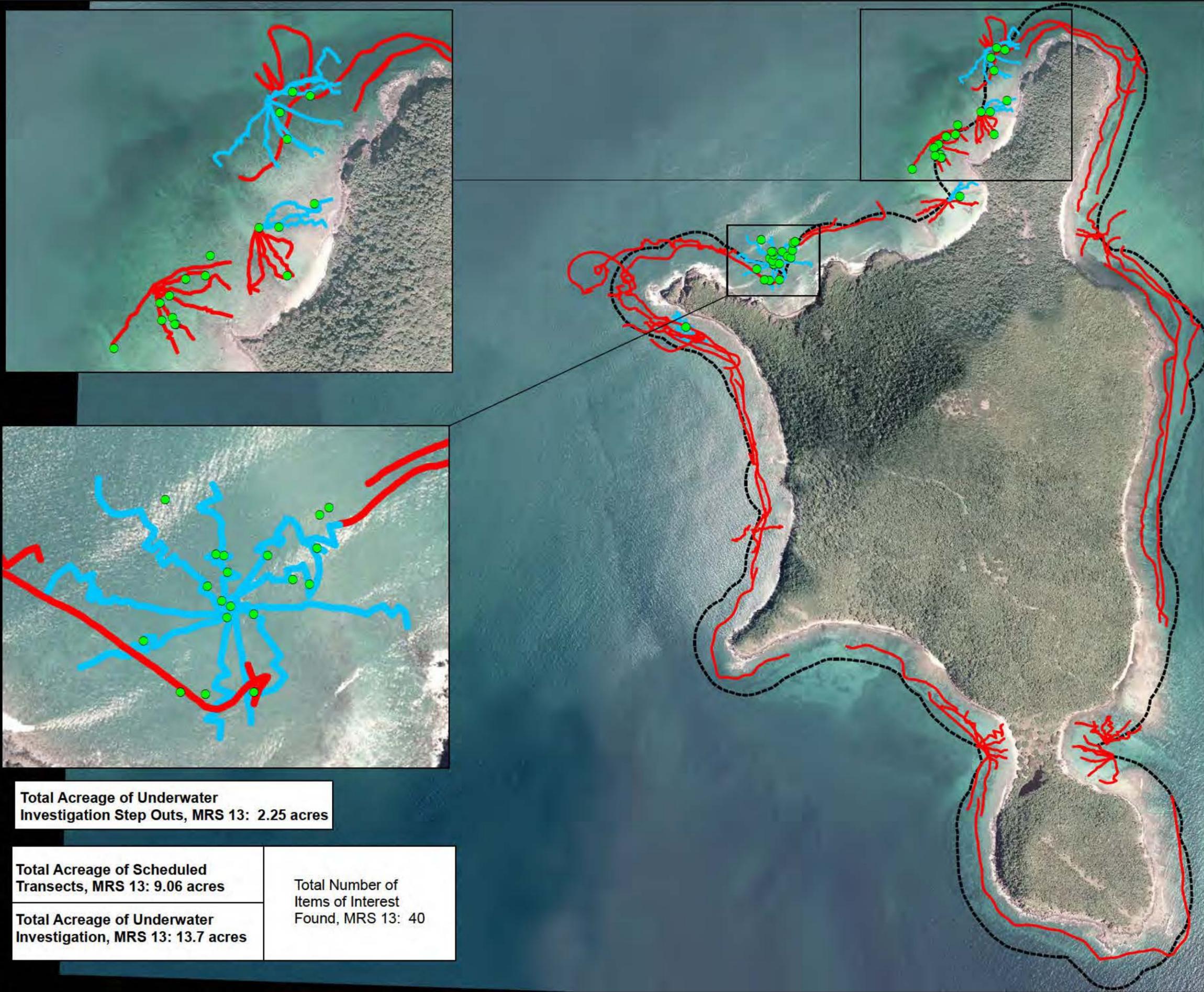
- Underwater Investigation Coverage
- Step Out
- 100 Yd. Investigation Boundary

**Total Acreage of Underwater
Investigation Step Outs, MRS 11: 0.29 acres**

Total Acreage of Scheduled Transects, MRS 11: 3.93 acres	Total Number of Items of Interest Found, MRS 11: 1
Total Acreage of Underwater Investigation, MRS 11: 5.13 acres	

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 300 meters	Rev: 1	
Checked By:	Date Drawn: 1/5/2015		
Submitted By:	Revision Date: 8/5/2015		

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A- 18_MRS 11 Underwater RI Transect Map.mxd	
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Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-19

MRS 13 Underwater Video Transect Coverage

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- Items of Interest
- █ Underwater Investigation Coverage
- █ Step Out
- 100 Yd. Investigation Boundary

Total Acreage of Underwater Investigation Step Outs, MRS 13: 2.25 acres

Total Acreage of Scheduled Transects, MRS 13: 9.06 acres	Total Number of Items of Interest Found, MRS 13: 40
Total Acreage of Underwater Investigation, MRS 13: 13.7 acres	

USA <i>Environmental, Inc.</i>		US Army Engineering And Support Center Huntsville, Alabama
Drawn By: CLH	Scale: 1 inch = 250 meters	Rev:
Checked By:	Date Drawn: 1/5/2015	
Submitted By:	Revision Date:	
	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-19_MRS 13 Underwater RI Transect Map.mxd	

- Soil Type - JaC2
PR-0915-S-0001
PR-0915-S-0002
PR-0915-S-0003
PR-0915-S-0004
PR-0915-S-0005
- Soil Type - DrF
PR-0915-S-0041
PR-0915-S-0042
PR-0915-S-0043
PR-0915-S-0044
PR-0915-S-0045
- Soil Type - DeE2
PR-0915-S-0036
PR-0915-S-0037
PR-0915-S-0038
PR-0915-S-0039
PR-0915-S-0040
- Soil Type - Rs
PR-0915-S-0031
PR-0915-S-0032
PR-0915-S-0033
PR-0915-S-0034
PR-0915-S-0035
- Soil Type - AmC2
PR-0915-S-0006
PR-0915-S-0007
PR-0915-S-0008
PR-0915-S-0009
PR-0915-S-0010
- Soil Type - Tf
PR-0915-S-0016
PR-0915-S-0017
PR-0915-S-0018
PR-0915-S-0019
PR-0915-S-0020
- Soil Type - Cm
PR-0915-S-0011
PR-0915-S-0012
PR-0915-S-0013
PR-0915-S-0014
PR-0915-S-0015
- Soil Type - Cf
PR-0915-S-0021
PR-0915-S-0022
PR-0915-S-0023
PR-0915-S-0024
PR-0915-S-0025

N



900 450 0 900

Meters

Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

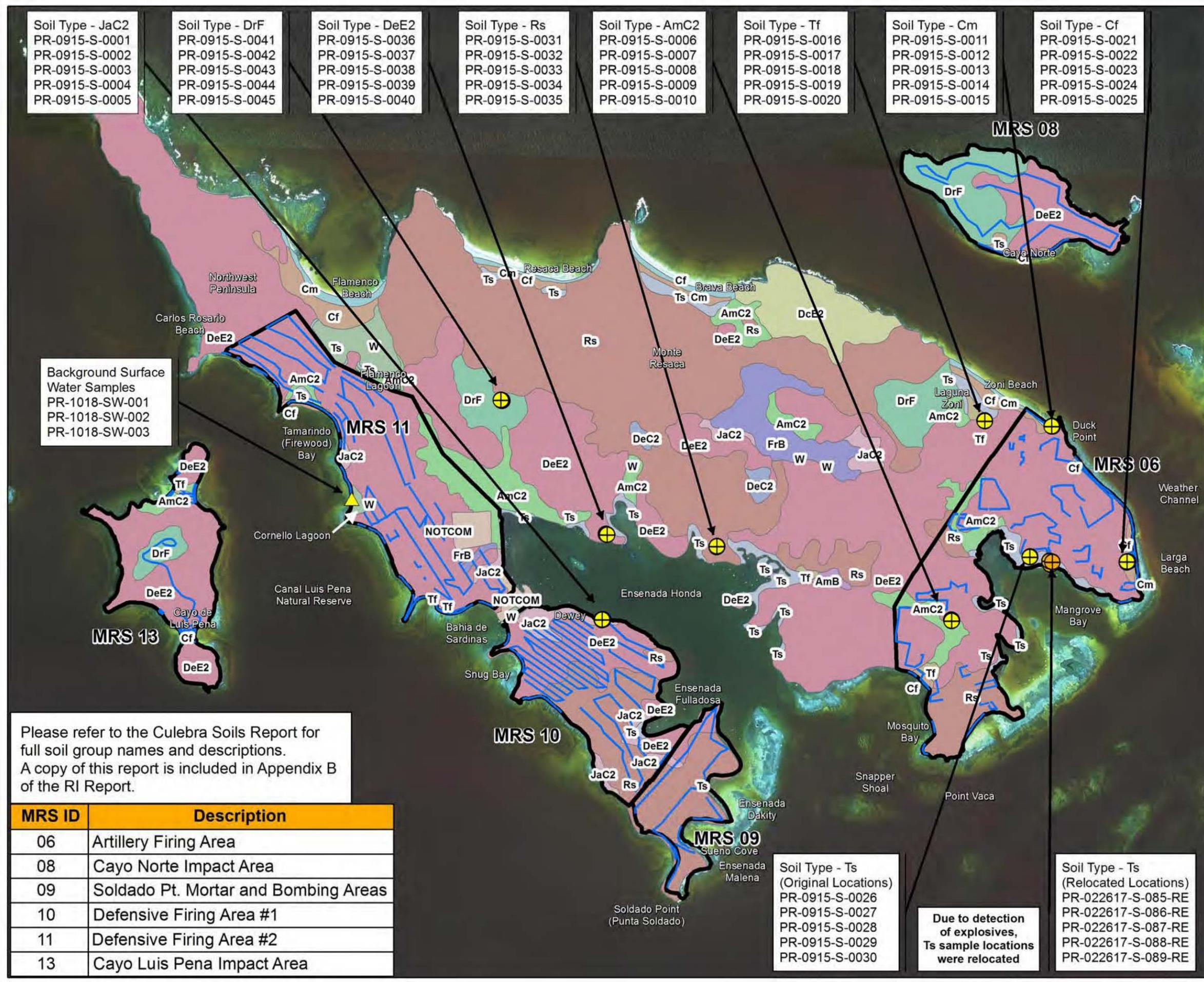
Remedial Investigation

Figure A-20

Culebra Background Sample Locations

Culebra Island Site
Culebra, Puerto Rico
Contract No: W912DY-04-D-006
Task Order No: 0022

- Background Surface Water Samples
PR-1018-SW-001
PR-1018-SW-002
PR-1018-SW-003



Legend

Background Samples

- Soil Samples (Yellow circle with cross)
- Surface Water Samples (Yellow triangle)
- Relocated Ts Samples (Orange circle with cross)
- Geophysical Transects (Blue line)
- MRS Boundaries (Black outline)

Soil Type

AmB	DcE2	FrB	Tf
AmC2	DeC2	JaC2	Ts
Cf	DeE2	NOTCOM	W
Cm	DrF	Rs	

Please refer to the Culebra Soils Report for full soil group names and descriptions. A copy of this report is included in Appendix B of the RI Report.

MRS ID	Description
06	Artillery Firing Area
08	Cayo Norte Impact Area
09	Soldado Pt. Mortar and Bombing Areas
10	Defensive Firing Area #1
11	Defensive Firing Area #2
13	Cayo Luis Pena Impact Area

- Soil Type - Ts
(Original Locations)
PR-0915-S-0026
PR-0915-S-0027
PR-0915-S-0028
PR-0915-S-0029
PR-0915-S-0030

Due to detection of explosives, Ts sample locations were relocated

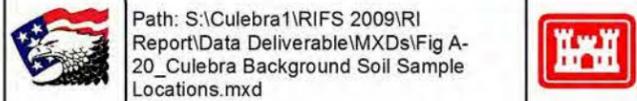
- Soil Type - Ts
(Relocated Locations)
PR-022617-S-085-RE
PR-022617-S-086-RE
PR-022617-S-087-RE
PR-022617-S-088-RE
PR-022617-S-089-RE

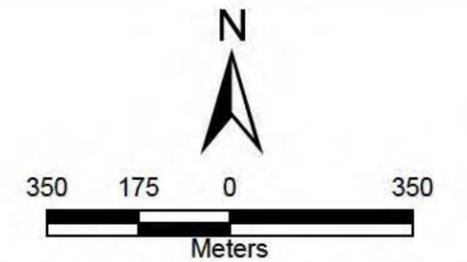
USA
Environmental, Inc.

US Army Engineering
And Support Center
Huntsville, Alabama

Drawn By: CLH	Scale: 1 inch = 900 meters	Rev: 3
Checked By:	Date Drawn: 9/13/2012	
Submitted By:	Revision Date: 4/10/2017	

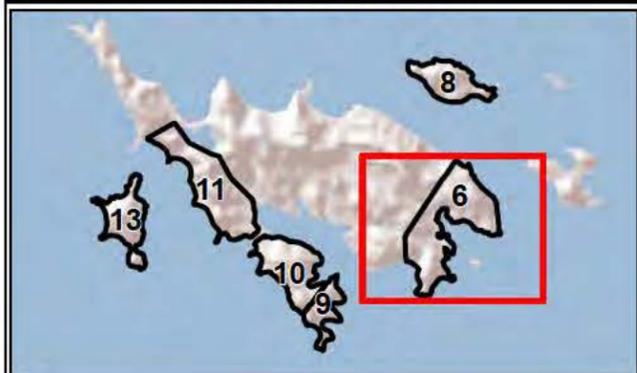
Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-20_Culebra Background Soil Sample Locations.mxd





Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation
Figure A-21
Sample Detail Map
MRS 06
 Culebra Island Site
 Culebra, Puerto Rico
 Contract No: W912DY-04-D-006
 Task Order No: 0022

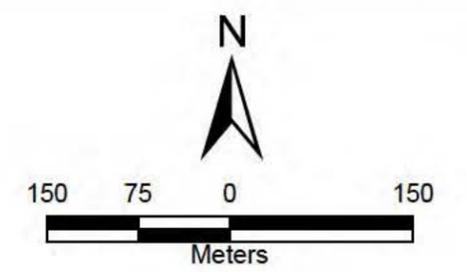


Legend

- Water Flow Direction
- 10 ft. Contours
- MD Items
- RI Soil Sample Location
- RI Stepout Soil Sample
- Well Sample Location
- Analog Transects
- No MD Found on Transect
- MD Found in Grid
- No MD Found in Grid
- MRS Boundaries

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: JAL	Scale: 1 inch = 350 meters	Rev: 2	
Checked By:	Date Drawn: 12/5/2014		
Submitted By:	Revision Date: 3/9/2015		

Path: S:\Culebra1\IRIS 2009\RI
Report\Data Deliverable\MXD\Fig A-
21_MRS 6 Soil Sample MD Map.mxd



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation
Figure A-22

Sample Detail Map
MRS 08

Culebra Island Site
Culebra, Puerto Rico
Contract No: W912DY-04-D-006
Task Order No: 0022

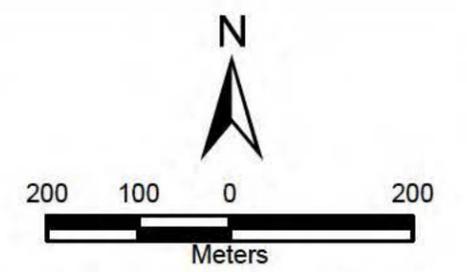
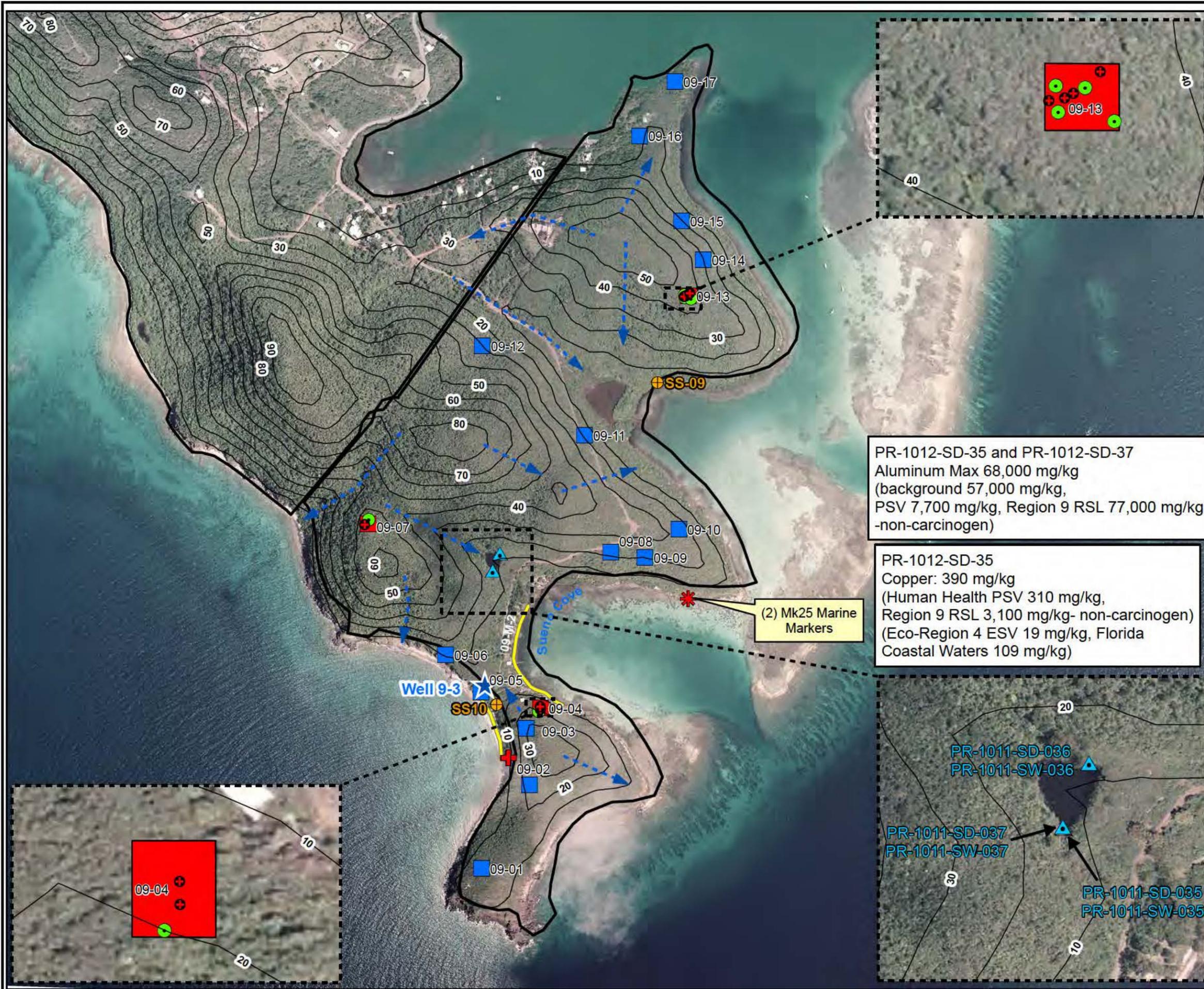


Legend

— 10 ft. Contours	Geophysical Grids
● MD Items	■ MD Found in Grid
⊕ SI Sediment Sample Location	■ No MD Found in Grid
⊕ SI Soil Sample Location	Analog Transects
● RI Soil Sample Location	— No MD Found on Transect
	▭ MRS Boundaries

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: JAL	Scale: 1 inch = 150 meters	Rev: 2	
Checked By:	Date Drawn: 12/5/2014		
Submitted By:	Revision Date: 3/9/2015		

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-22_MRS 8 Soil Sample MD Map.mxd	



Data is projected to the UTM Coordinate System:
 NAD 1983 UTM Zone 20N

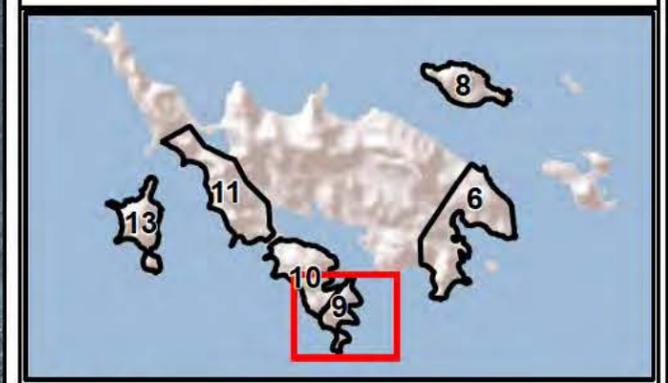
Remedial Investigation

Figure A-23

Sample Detail Map

MRS 09

Culebra Island Site; Culebra, Puerto Rico
 Contract No: W912DY-04-D-006
 Task Order No: 0022



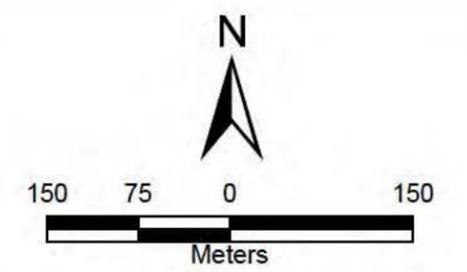
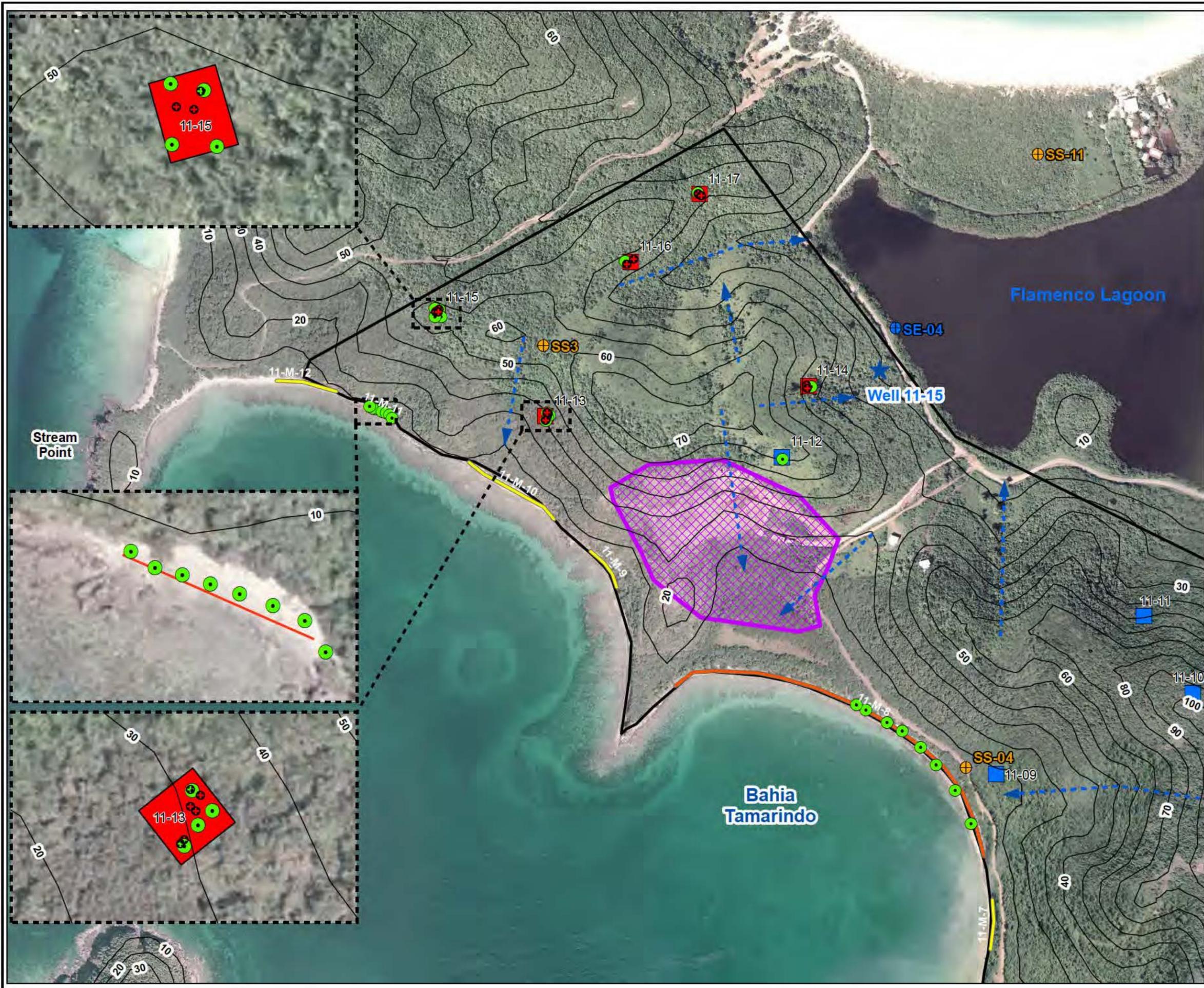
- #### Legend
- Water Flow Direction
 - MD Items
 - MPPEH Items
 - SI Soil Sample Location
 - RI Soil Sample Location
 - Demo Location
 - Groundwater Sample Location
 - RI Surface Water/Sediment Sample
 - Geophysical Grids**
 - MD Found in Grid
 - No MD Found in Grid
 - Analog Transects**
 - No MD Found on Transect
 - MRS Boundaries

USA
Environmental, Inc.

US Army Engineering
 And Support Center
 Huntsville, Alabama

Drawn By: JAL	Scale: 1 inch = 200 meters	Rev: 3
Checked By:	Date Drawn: 12/5/2014	
Submitted By:	Revision Date: 5/15/2015	

Path: S:\Culebra1\RIFS 2009\RI
 Report\Data Deliverable\MXD\Fig A-
 23_MRS 9 Soil Sample MD Map.mxd



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-24

Sample Detail Map

MRS 11 North

Culebra Island Site
Culebra, Puerto Rico
Contract No: W912DY-04-D-006
Task Order No: 0022

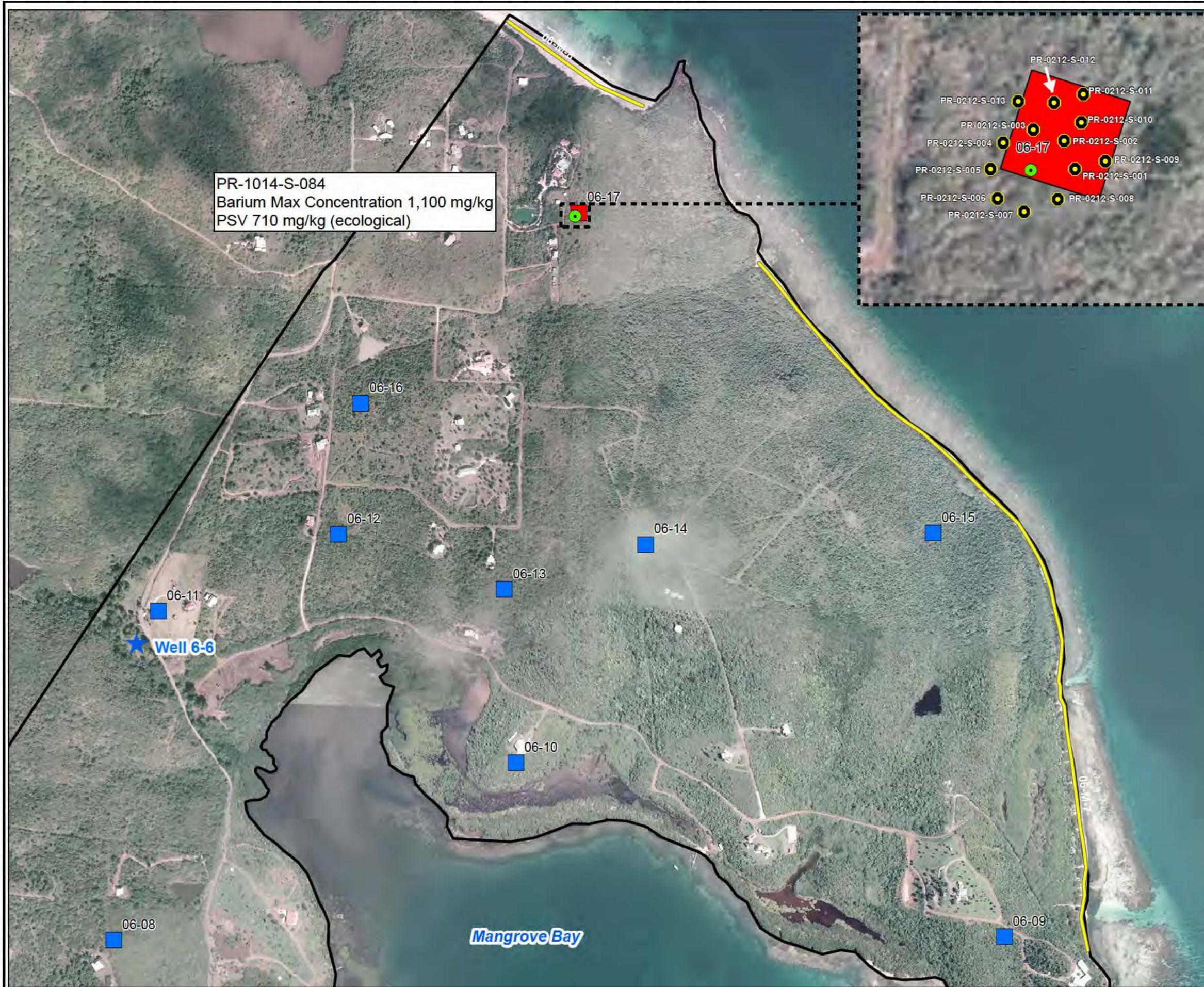


Legend	
● MD Items	Geophysical Grids
⊕ SI Sediment Sample Location	■ MD Found in Grid
⊕ SI Soil Sample Location	■ No MD Found in Grid
★ Groundwater Sample Location	Analog Transects
● RI Soil Sample Location	— No MD Found on Transect
→ Water Flow Direction	— MD Found on Transect
— 10 ft. Contours	▨ Culebra Landfill Boundary
■ Geophysical Grids	▭ MRS Boundaries

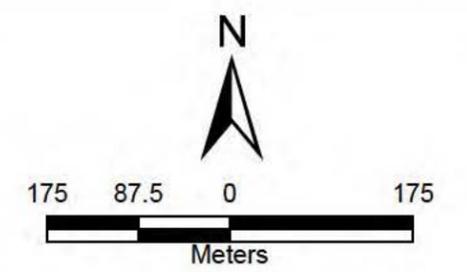
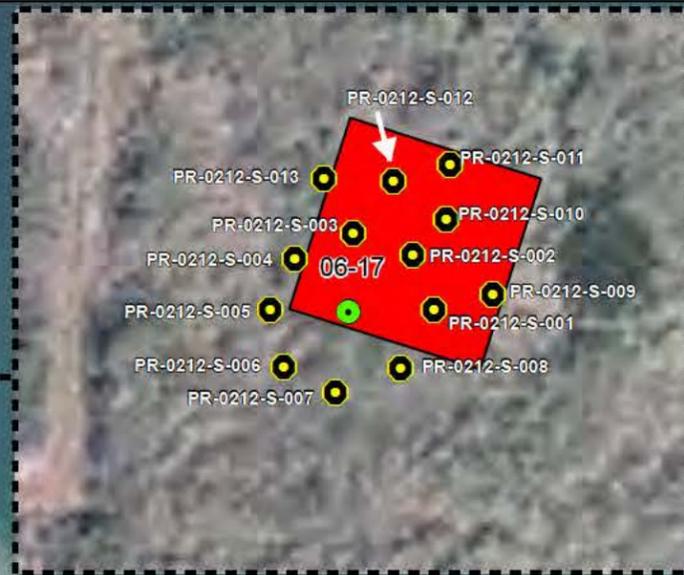
USA Environmental, Inc. US Army Engineering And Support Center
Huntsville, Alabama

Drawn By: JAL	Scale: 1 inch = 150 meters	Rev: 4
Checked By:	Date Drawn: 12/5/2014	
Submitted By:	Revision Date: 8/5/2015	

Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-24_MRS 11 Soil Sample MD Map.mxd



PR-1014-S-084
 Barium Max Concentration 1,100 mg/kg
 PSV 710 mg/kg (ecological)



Data is projected to the UTM Coordinate System:
 NAD 1983 UTM Zone 20N

Remedial Investigation
Figure A-25

Sample Detail Map
MRS 06 North

Culebra Island Site
 Culebra, Puerto Rico
 Contract No: W912DY-04-D-006
 Task Order No: 0022



Legend

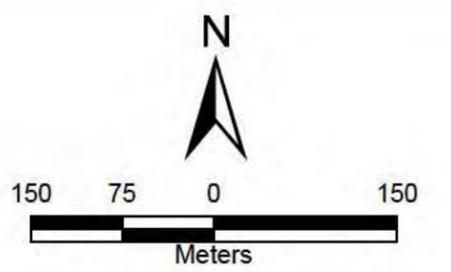
- RI Soil Sample Location
- RI Stepout Soil Sample
- ★ Groundwater Sample
- No MD Found on Transect
- MD Found in Grid
- No MD Found in Grid
- MRS Boundaries

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 175 meters	Rev: 4	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 3/10/2015		

Path: S:\Culebra1\RIFS 2009\RI
 Report\Data Deliverable\MXD\Fig A-
 25_MRS 6N Soil Sample Detail
 Map.mxd



PR-CUL-GW-MRS-06-9
Chromium (VI) 0.031 µg/L
PSV



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-26

Sample Detail Map

MRS 06 South

Culebra Island Site
Culebra, Puerto Rico
Contract No: W912DY-04-D-006
Task Order No: 0022



Legend

- SI Soil Sample Location
- RI Soil Sample Location
- Groundwater Sample
- Geophysical Grid
- MRS Boundaries

Analog Transects

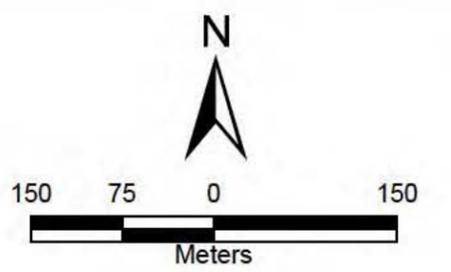
- No MD Found on Transect

Geophysical Grids

- MD Found in Grid
- No MD Found in Grid

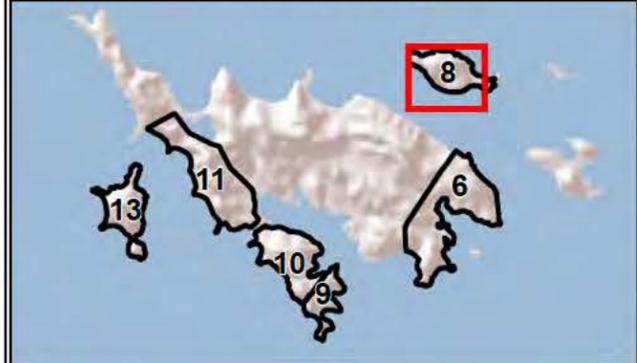
USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 150 meters	Rev: 4	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 3/10/2015		

Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-26_MRS 6S Soil Sample Detail Map.mxd



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation
Figure A-27
Sample Detail Map
MRS 08
 Culebra Island Site
 Culebra, Puerto Rico
 Contract No: W912DY-04-D-006
 Task Order No: 0022



Legend

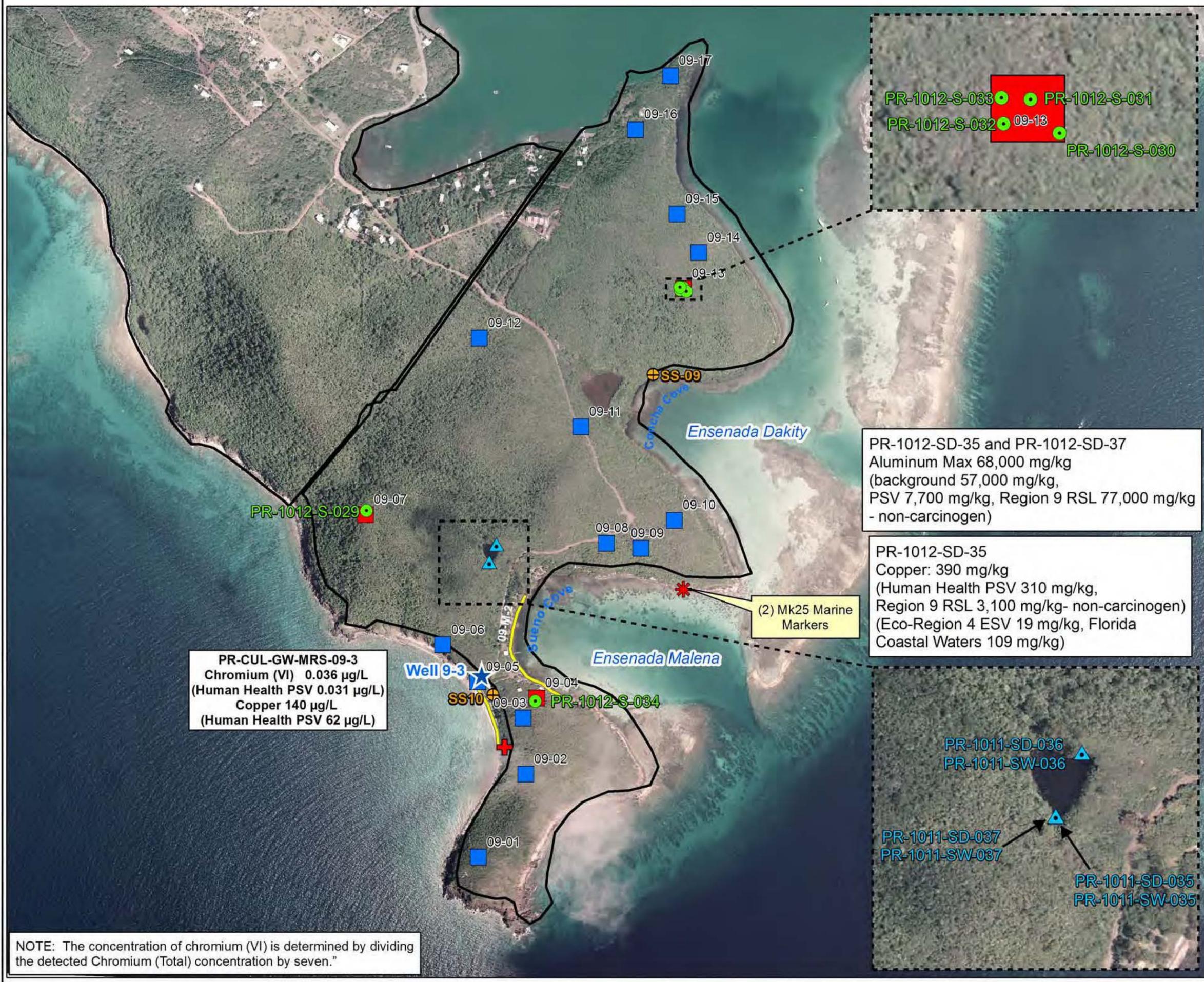
- ⊕ SI Sediment Sample Location
- ⊕ SI Soil Sample Location
- RI Soil Sample Location
- ⊕ Geophysical Grids
- MD Found in Grid
- No MD Found in Grid

Analog Transects

- No MD Found on Transect
- MRS Boundaries

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 150 meters	Rev: 3	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 1/6/2015		

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A- 27_MRS 8 Soil Sample Detail Map.mxd	
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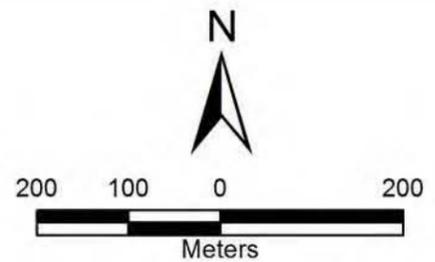


PR-CUL-GW-MRS-09-3
 Chromium (VI) 0.036 µg/L
 (Human Health PSV 0.031 µg/L)
 Copper 140 µg/L
 (Human Health PSV 62 µg/L)

PR-1012-SD-35 and PR-1012-SD-37
 Aluminum Max 68,000 mg/kg
 (background 57,000 mg/kg,
 PSV 7,700 mg/kg, Region 9 RSL 77,000 mg/kg
 - non-carcinogen)

PR-1012-SD-35
 Copper: 390 mg/kg
 (Human Health PSV 310 mg/kg,
 Region 9 RSL 3,100 mg/kg- non-carcinogen)
 (Eco-Region 4 ESV 19 mg/kg, Florida
 Coastal Waters 109 mg/kg)

NOTE: The concentration of chromium (VI) is determined by dividing the detected Chromium (Total) concentration by seven."



Data is projected to the UTM Coordinate System:
 NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-28

Sample Detail Map

MRS 09

Culebra Island Site
 Culebra, Puerto Rico
 Contract No: W912DY-04-D-006
 Task Order No: 0022



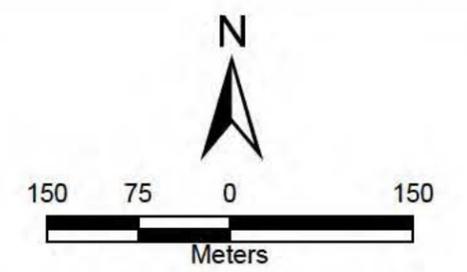
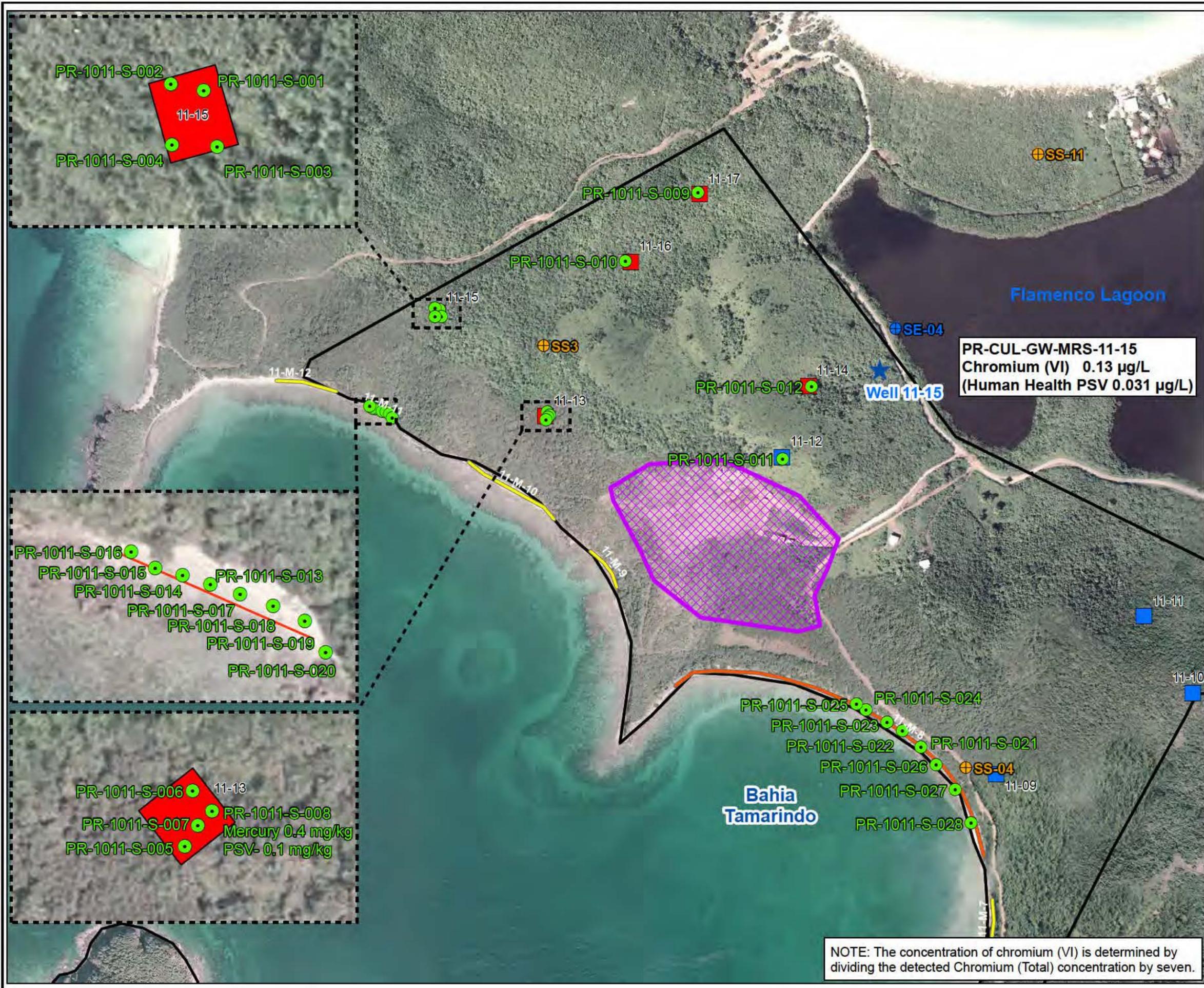
Legend

- SI Soil Sample Location
- RI Surface Water/Sediment Sample
- RI Soil Sample Location
- Demo Location
- Groundwater Sample Location
- MPPEH Items
- Geophysical Grids
- MD Found in Grid
- No MD Found in Grid
- Analog Transects
- No MD Found on Transect
- MRS Boundaries

USA Environmental, Inc. US Army Engineering And Support Center
 Huntsville, Alabama

Drawn By: CLH	Scale: 1 inch = 200 meters	Rev: 3
Checked By:	Date Drawn: 9/13/2012	
Submitted By:	Revision Date: 4/10/2017	

Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-28_MRS 9 Soil Sample Detail Map.mxd



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-29

Sample Detail Map

MRS 11 North

Culebra Island Site
Culebra, Puerto Rico
Contract No: W912DY-04-D-006
Task Order No: 0022



Legend

- SI Sediment Sample Location
- ⊕ SI Soil Sample Location
- RI Soil Sample Location
- ★ Groundwater Sample Location
- Culebra Landfill Boundary
- MRS Boundaries
- MD Found in Grid
- No MD Found in Grid

Analog Transects

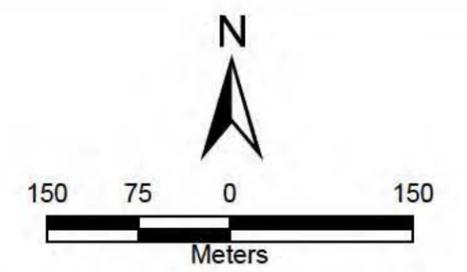
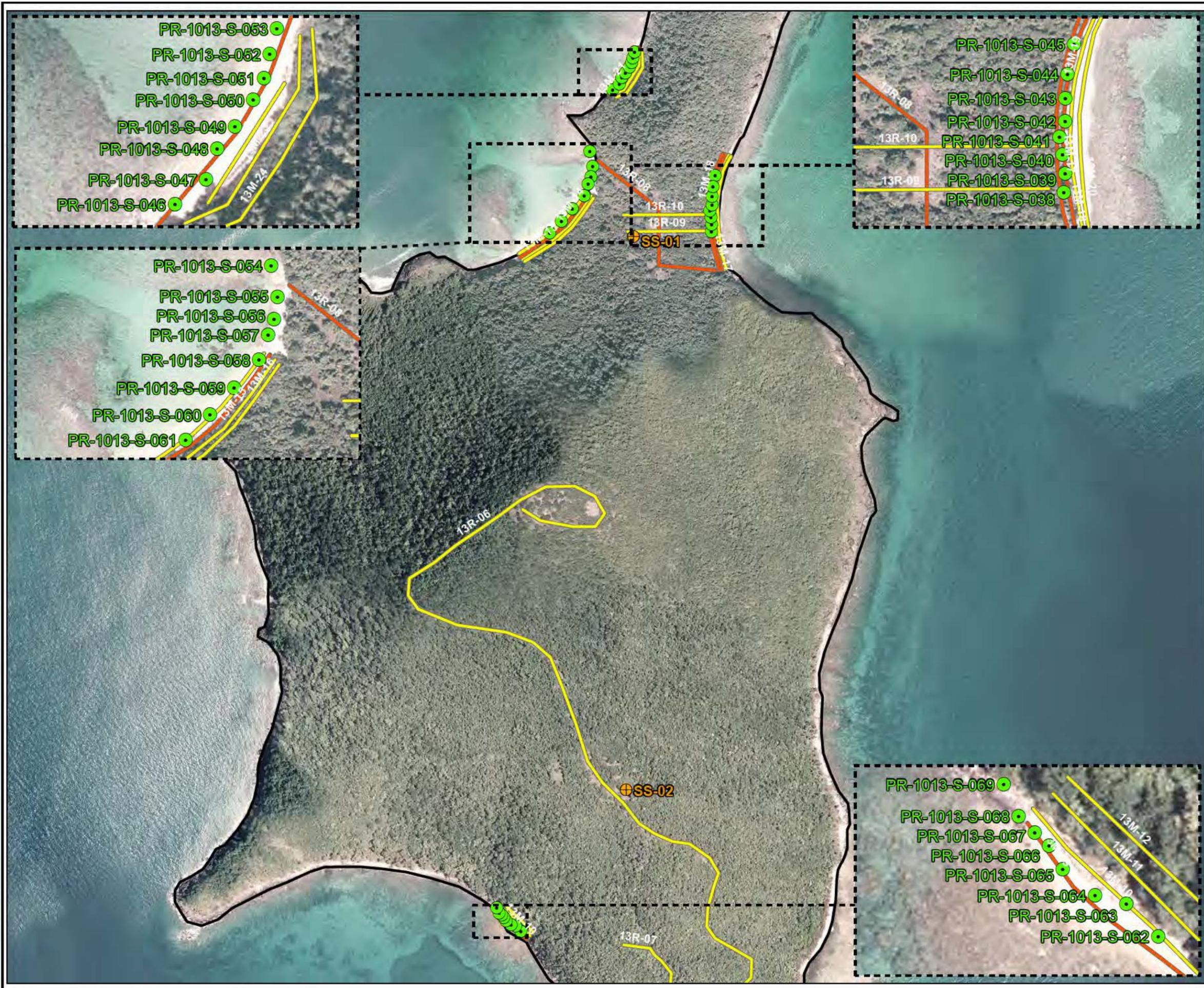
- No MD Found on Transect
- MD Found on Transect

USA Environmental, Inc. US Army Engineering And Support Center
Huntsville, Alabama

Drawn By:	CLH	Scale:	1 inch = 150 meters	Rev:	4
Checked By:		Date Drawn:	9/13/2012		
Submitted By:		Revision Date:	3/10/2015		

NOTE: The concentration of chromium (VI) is determined by dividing the detected Chromium (Total) concentration by seven.

Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A-29_MRS 11N Soil Sample Detail Map.mxd



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-30

Sample Detail Map

MRS 13

Culebra Island Site
Culebra, Puerto Rico
Contract No: W912DY-04-D-006
Task Order No: 0022

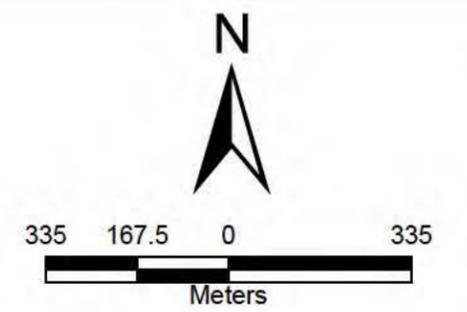
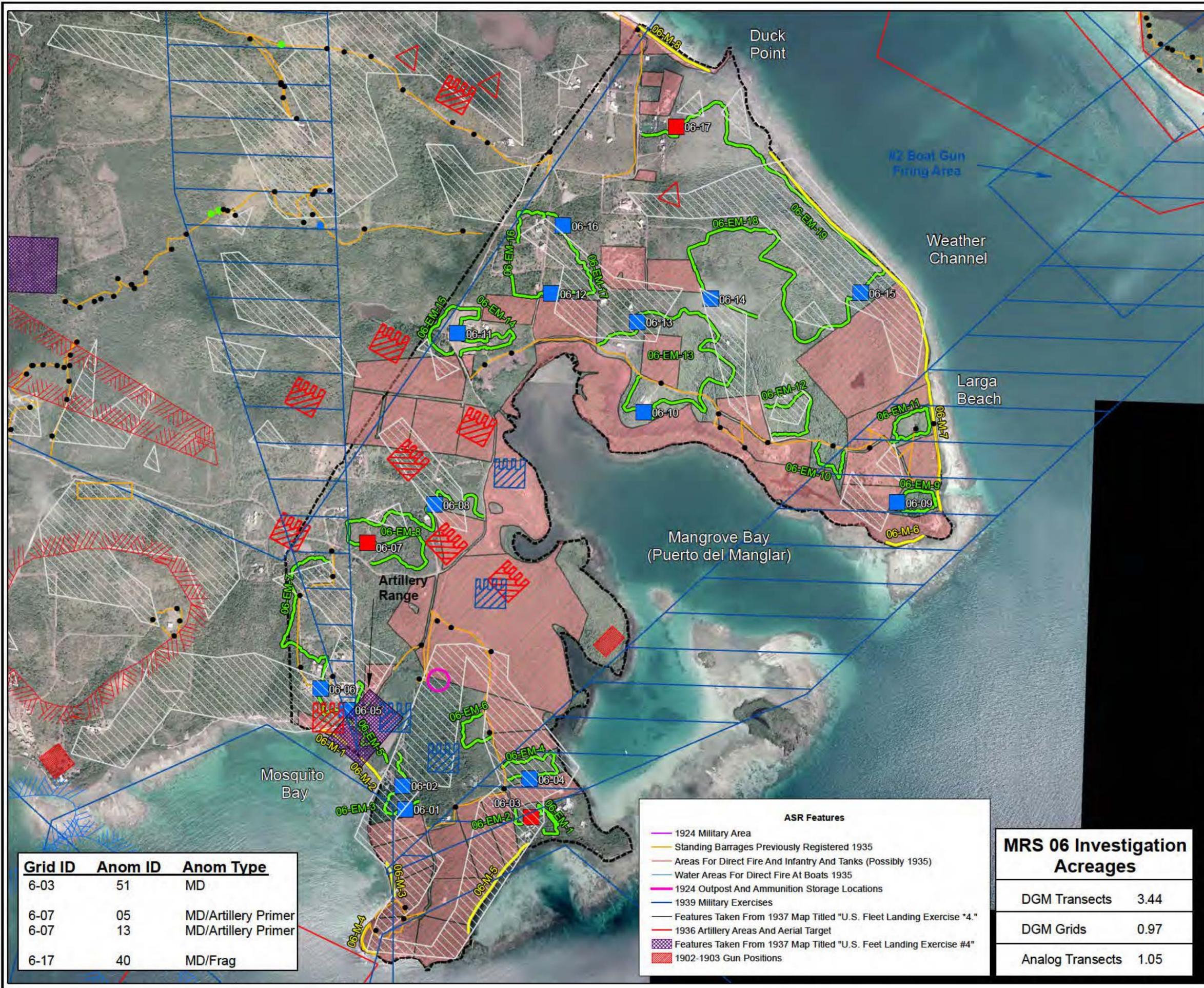


Legend

- SI Soil Sample Location
- RI Soil Sample Location
- MRS Boundaries
- Analog Transects**
- No MD Found on Transect
- MD Found on Transect

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By:	CLH	Scale:	1 inch = 150 meters
Checked By:		Date Drawn:	9/13/2012
Submitted By:		Revision Date:	6/18/2014

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD's\Fig A-30_MRS 13 Soil Sample Detail Map.mxd	
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Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-31

MRS 06 Intrusive Results Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- SI Data**
 - MD Observation
 - Other Field Observation
 - Small Arms Debris Observation
 - ▭ Slope over 33 degrees
 - SI Transects
- DGM Grids**
 - ▭ No MD Found in Grid
 - ▭ MD Found in Grid
- Analog Transects**
 - No MD Found on Transect
- DGM Transects**
 - No MD Found on Transect
- Land Parcels**
 - ▭ No Right of Entry
 - ▭ MRS Boundaries

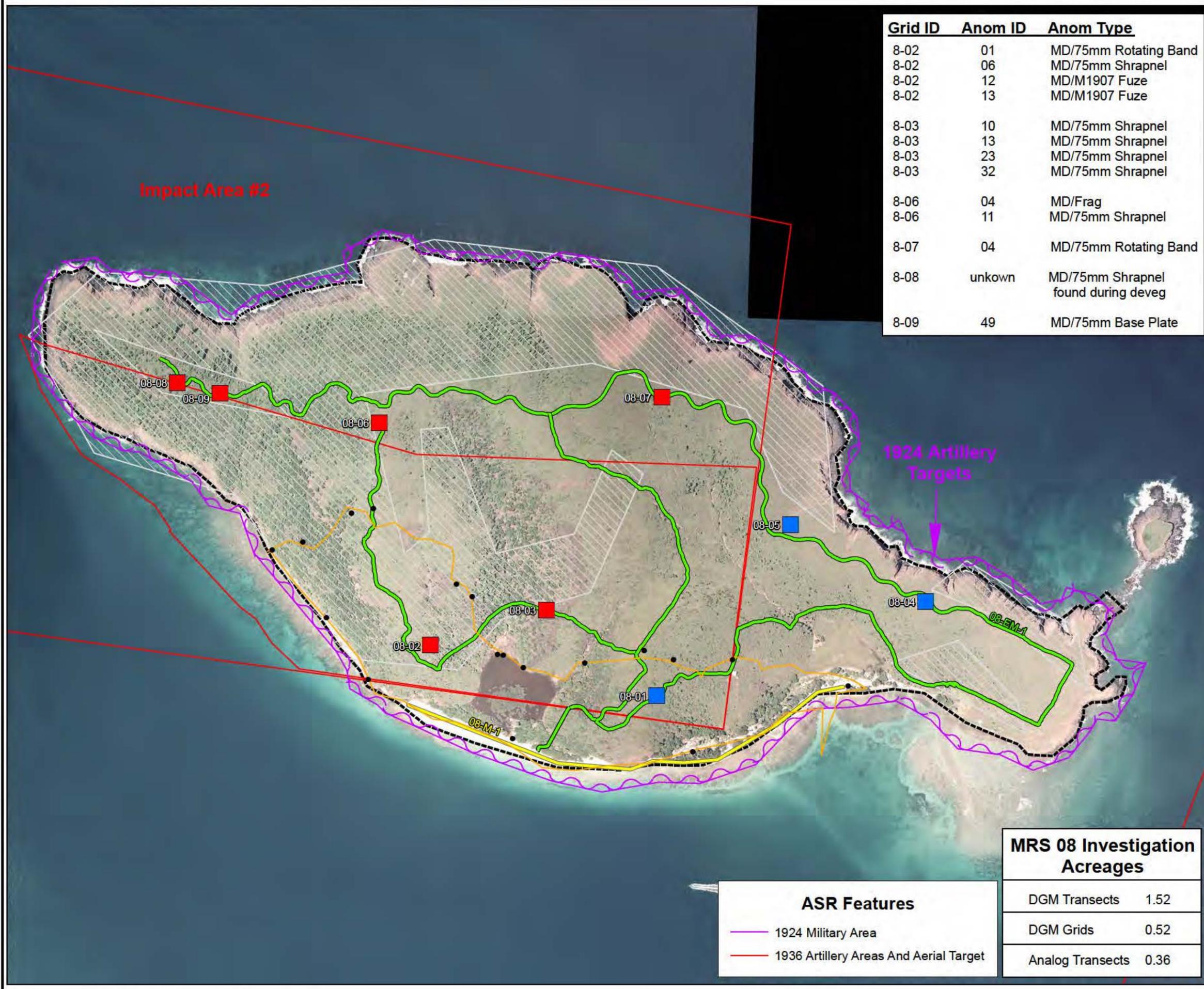
- #### ASR Features
- 1924 Military Area
 - Standing Barrages Previously Registered 1935
 - Areas For Direct Fire And Infantry And Tanks (Possibly 1935)
 - Water Areas For Direct Fire At Boats 1935
 - 1924 Outpost And Ammunition Storage Locations
 - 1939 Military Exercises
 - Features Taken From 1937 Map Titled "U.S. Fleet Landing Exercise #4."
 - 1936 Artillery Areas And Aerial Target
 - ▭ Features Taken From 1937 Map Titled "U.S. Fleet Landing Exercise #4"
 - ▭ 1902-1903 Gun Positions

MRS 06 Investigation Acreages

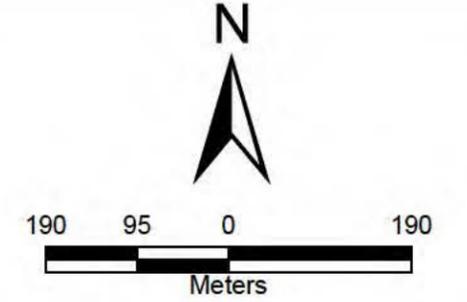
DGM Transects	3.44
DGM Grids	0.97
Analog Transects	1.05

Grid ID	Anom ID	Anom Type
6-03	51	MD
6-07	05	MD/Artillery Primer
6-07	13	MD/Artillery Primer
6-17	40	MD/Frag

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 335 meters	Rev: 4	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 2-12-2015		
Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A- 31_MRS 6 Intrusive Results Map.mxd			



Grid ID	Anom ID	Anom Type
8-02	01	MD/75mm Rotating Band
8-02	06	MD/75mm Shrapnel
8-02	12	MD/M1907 Fuze
8-02	13	MD/M1907 Fuze
8-03	10	MD/75mm Shrapnel
8-03	13	MD/75mm Shrapnel
8-03	23	MD/75mm Shrapnel
8-03	32	MD/75mm Shrapnel
8-06	04	MD/Frag
8-06	11	MD/75mm Shrapnel
8-07	04	MD/75mm Rotating Band
8-08	unkown	MD/75mm Shrapnel found during deveg
8-09	49	MD/75mm Base Plate



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-32

MRS 08 Intrusive Results Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- | | |
|---------------------------------|---------------------------|
| SI Data | Analog Transects |
| ● MD Observation | — No MD Found on Transect |
| ● Other Field Observation | |
| ● Small Arms Debris Observation | DGM Transects |
| — SI Transects | — No MD Found on Transect |
| | ▨ Slope over 33 degrees |
| DGM Grids | ▭ MRS Boundary |
| ■ No MD Found in Grid | |
| ■ MD Found in Grid | |

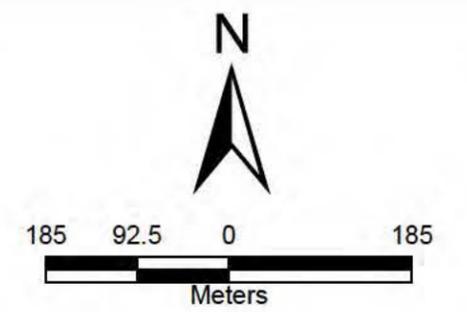
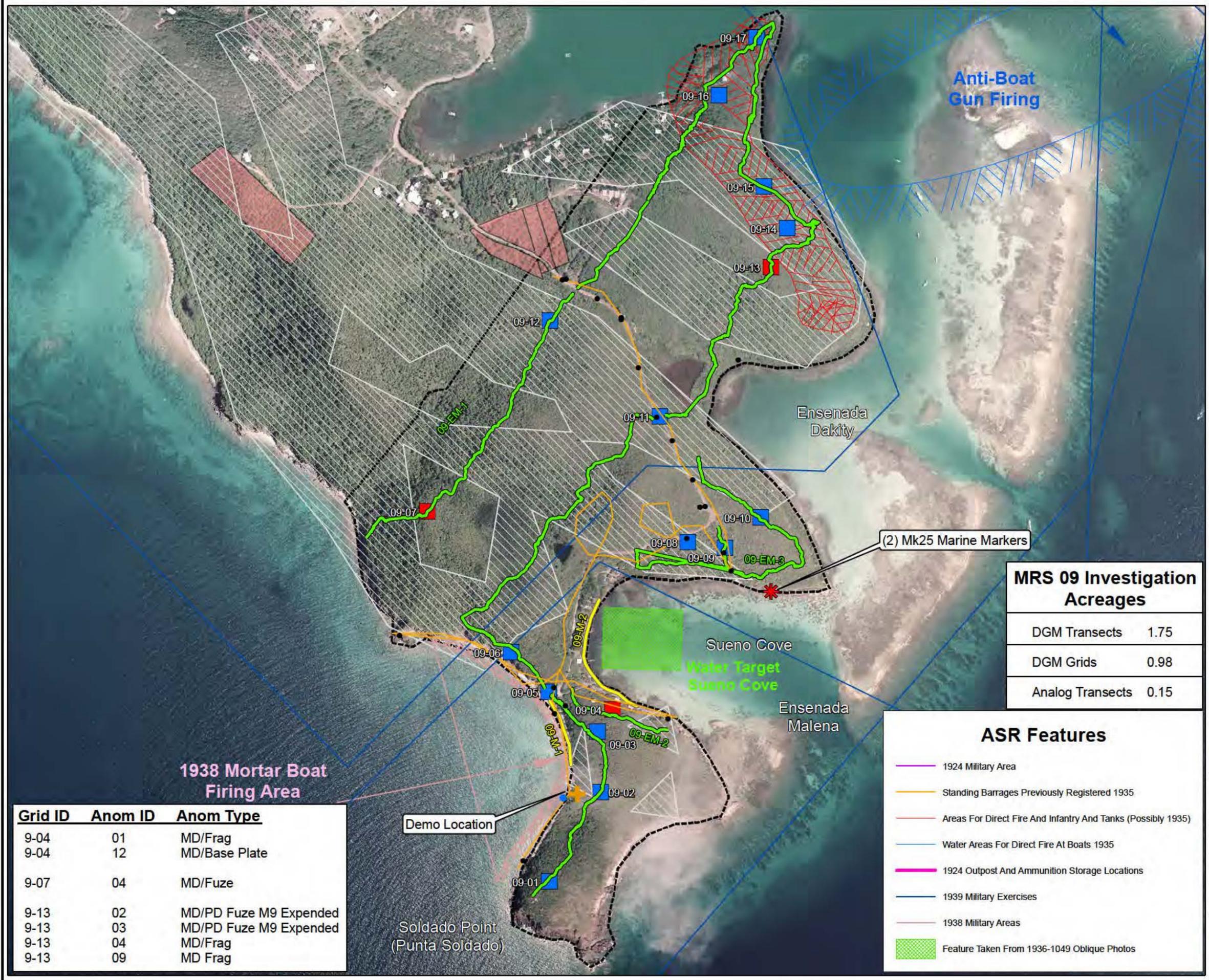
USA Environmental, Inc. US Army Engineering And Support Center
Huntsville, Alabama

Drawn By: CLH	Scale: 1 inch = 190 meters	Rev: 4
Checked By:	Date Drawn: 9/13/2012	
Submitted By:	Revision Date: 2-12-2015	

MRS 08 Investigation Acreages	
DGM Transects	1.52
DGM Grids	0.52
Analog Transects	0.36

ASR Features	
— 1924 Military Area	
— 1936 Artillery Areas And Aerial Target	

Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A-32_MRS 8 Intrusive Results Map.mxd



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-33

MRS 09 Intrusive Results Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- | | |
|-------------------------------------|---------------------------|
| SI Data | DGM Transects |
| ● MD Observation | — No MD Found on Transect |
| ● Other Field Observation | DGM Grids |
| ● Small Arms Ammunition Observation | ■ No MD Found in Grid |
| ★ MPPEH Items | ■ MD Found in Grid |
| ⊕ Demo Location | ▨ Slope over 33 degrees |
| — SI Transects | Land Parcels |
| Analog Transects | ■ No Right of Entry |
| — No MD Found on Grid | ▭ MRS Boundary |

MRS 09 Investigation Acreages

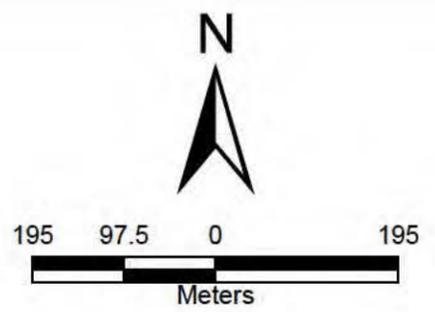
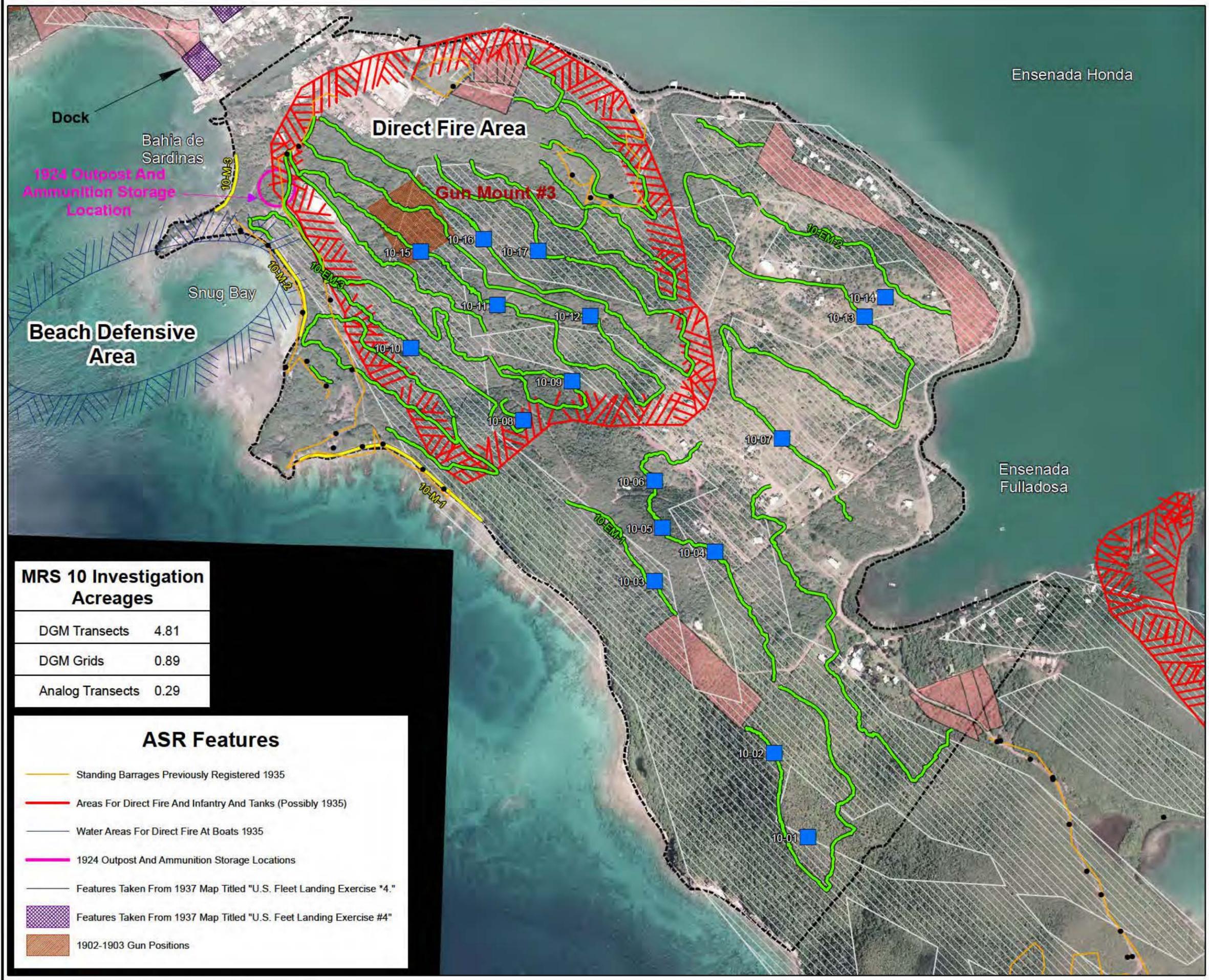
DGM Transects	1.75
DGM Grids	0.98
Analog Transects	0.15

ASR Features

- 1924 Military Area
- Standing Barrages Previously Registered 1935
- Areas For Direct Fire And Infantry And Tanks (Possibly 1935)
- Water Areas For Direct Fire At Boats 1935
- 1924 Outpost And Ammunition Storage Locations
- 1939 Military Exercises
- 1938 Military Areas
- ▨ Feature Taken From 1936-1049 Oblique Photos

Grid ID	Anom ID	Anom Type
9-04	01	MD/Frag
9-04	12	MD/Base Plate
9-07	04	MD/Fuze
9-13	02	MD/PD Fuze M9 Expanded
9-13	03	MD/PD Fuze M9 Expanded
9-13	04	MD/Frag
9-13	09	MD Frag

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Drawn By: CLH	Scale: 1 inch = 185 meters	Rev: 4	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 2-12-2015		
Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A-33_MRS 9 Intrusive Results Map.mxd			



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-34

MRS 10 Intrusive Results Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

MRS 10 Investigation Acreages	
DGM Transects	4.81
DGM Grids	0.89
Analog Transects	0.29

ASR Features

- Standing Barrages Previously Registered 1935
- Areas For Direct Fire And Infantry And Tanks (Possibly 1935)
- Water Areas For Direct Fire At Boats 1935
- 1924 Outpost And Ammunition Storage Locations
- Features Taken From 1937 Map Titled "U.S. Fleet Landing Exercise #4."
- Features Taken From 1937 Map Titled "U.S. Feet Landing Exercise #4"
- 1902-1903 Gun Positions

Legend

- | | |
|-------------------------------|-------------------------|
| SI Data | Analog Transects |
| MD Observation | No MD Found on Transect |
| Other Field Observation | No MD Found on Transect |
| Small Arms Debris Observation | Slope over 33 degrees |
| SI Transects | Land Parcels |
| No MD Found in Grid | No Right of Entry |
| | MRS Boundary |

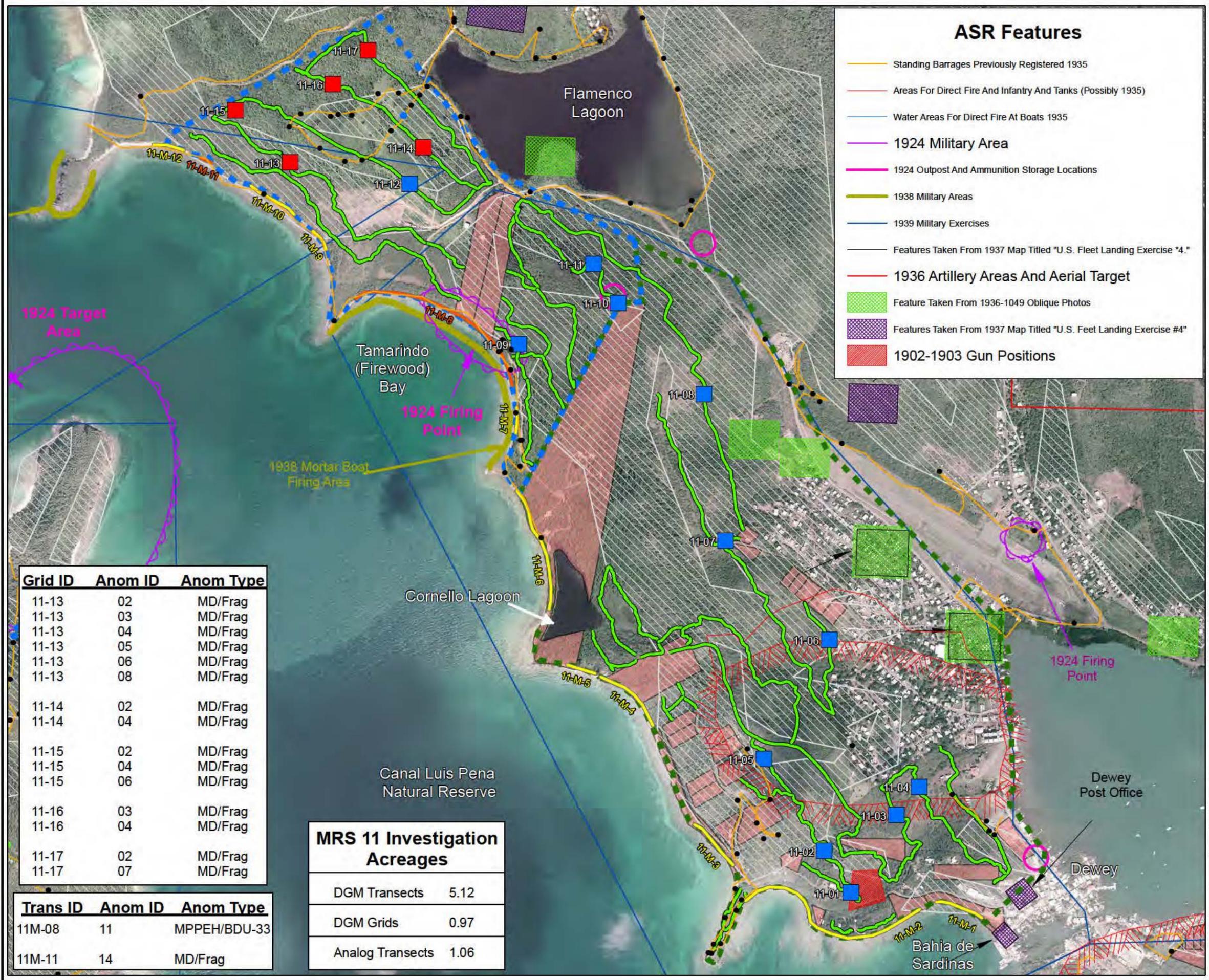
USA Environmental, Inc. US Army Engineering And Support Center
Huntsville, Alabama

Drawn By: CLH Scale: 1 inch = 195 meters Rev: 4

Checked By: Date Drawn: 9/13/2012

Submitted By: Revision Date: 2-12-2015

Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A-34_MRS 10 Intrusive Results Map.mxd



- ### ASR Features
- Standing Barrages Previously Registered 1935
 - Areas For Direct Fire And Infantry And Tanks (Possibly 1935)
 - Water Areas For Direct Fire At Boats 1935
 - 1924 Military Area
 - 1924 Outpost And Ammunition Storage Locations
 - 1938 Military Areas
 - 1939 Military Exercises
 - Features Taken From 1937 Map Titled "U.S. Fleet Landing Exercise #4."
 - 1936 Artillery Areas And Aerial Target
 - Feature Taken From 1936-1049 Oblique Photos
 - Features Taken From 1937 Map Titled "U.S. Feet Landing Exercise #4"
 - 1902-1903 Gun Positions

N

295 147.5 0 295
Meters

Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-35

MRS 11 Intrusive Results Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Grid ID	Anom ID	Anom Type
11-13	02	MD/Frag
11-13	03	MD/Frag
11-13	04	MD/Frag
11-13	05	MD/Frag
11-13	06	MD/Frag
11-13	08	MD/Frag
11-14	02	MD/Frag
11-14	04	MD/Frag
11-15	02	MD/Frag
11-15	04	MD/Frag
11-15	06	MD/Frag
11-16	03	MD/Frag
11-16	04	MD/Frag
11-17	02	MD/Frag
11-17	07	MD/Frag

MRS 11 Investigation Acreages	
DGM Transects	5.12
DGM Grids	0.97
Analog Transects	1.06

Trans ID	Anom ID	Anom Type
11M-08	11	MPPEH/BDU-33
11M-11	14	MD/Frag

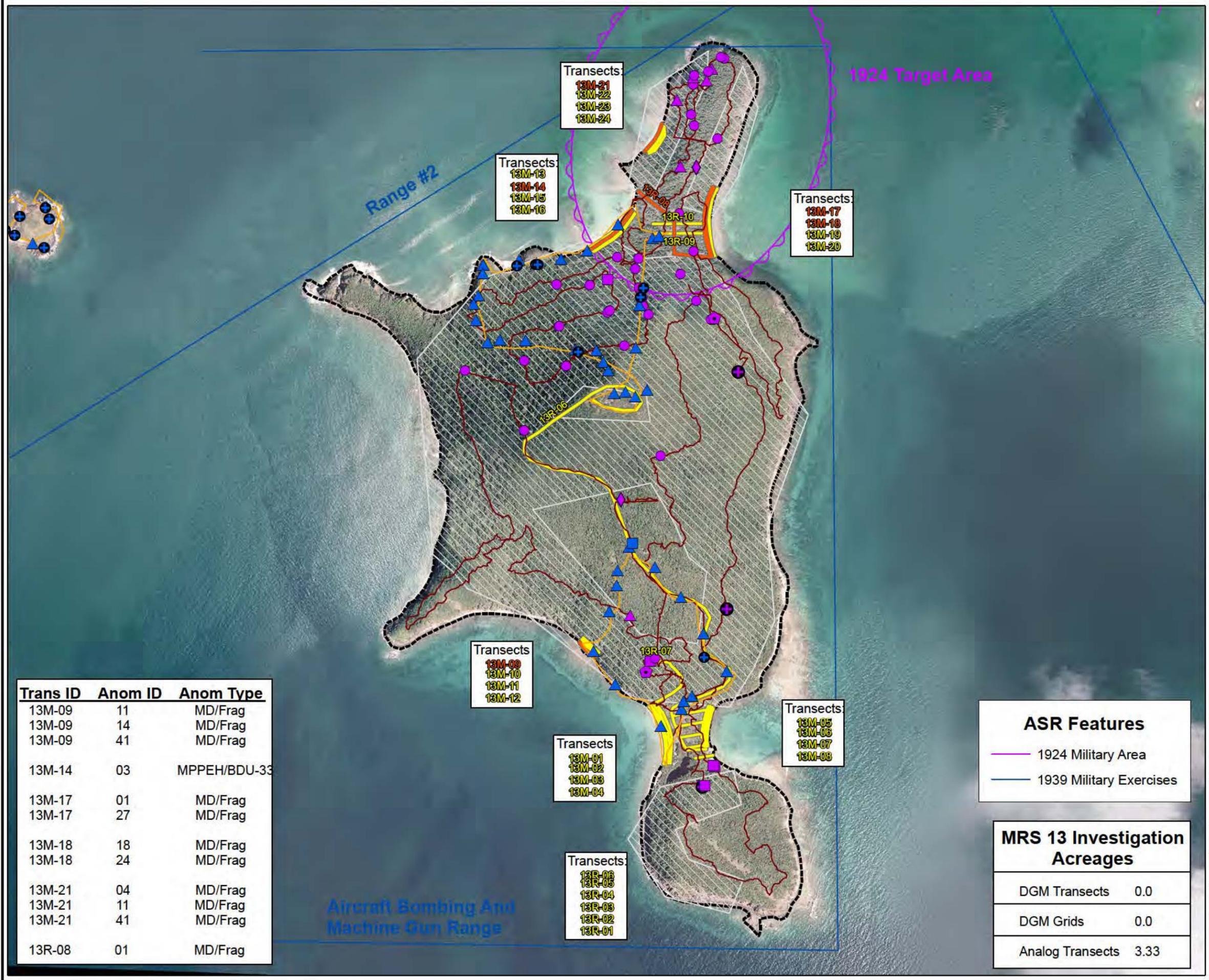
- ### Legend
- SI Data**
 - MD Observation
 - Other Field Observation
 - Small Arms Debris Observation
 - SI Transects
 - Analog Transects**
 - No MD Found on Transect
 - MD Found on Transect
 - DGM Transects**
 - No MD Found on Transect
 - Slope over 33 degrees
 - Geophysical Grids**
 - No MD Found in Grid
 - MD Found in Grid
 - Land Parcels**
 - No Right of Entry
 - MRS Boundaries**
 - MRS 11 North (196.1 acres)
 - MRS 11 South (498.2 acres)

USA Environmental, Inc.

US Army Engineering And Support Center
Huntsville, Alabama

Drawn By: CLH	Scale: 1 inch = 295 meters	Rev: 4
Checked By:	Date Drawn: 9/13/2012	
Submitted By:	Revision Date: 2-12-2015	

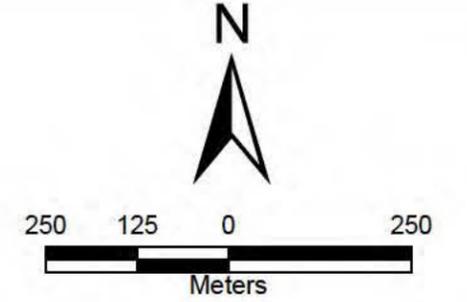
Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A-35_MRS 11 Intrusive Results Map.mxd



Trans ID	Anom ID	Anom Type
13M-09	11	MD/Frag
13M-09	14	MD/Frag
13M-09	41	MD/Frag
13M-14	03	MPPEH/BDU-33
13M-17	01	MD/Frag
13M-17	27	MD/Frag
13M-18	18	MD/Frag
13M-18	24	MD/Frag
13M-21	04	MD/Frag
13M-21	11	MD/Frag
13M-21	41	MD/Frag
13R-08	01	MD/Frag

ASR Features	
	1924 Military Area
	1939 Military Exercises

MRS 13 Investigation Acreages	
DGM Transects	0.0
DGM Grids	0.0
Analog Transects	3.33



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

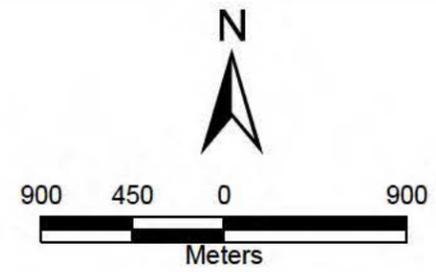
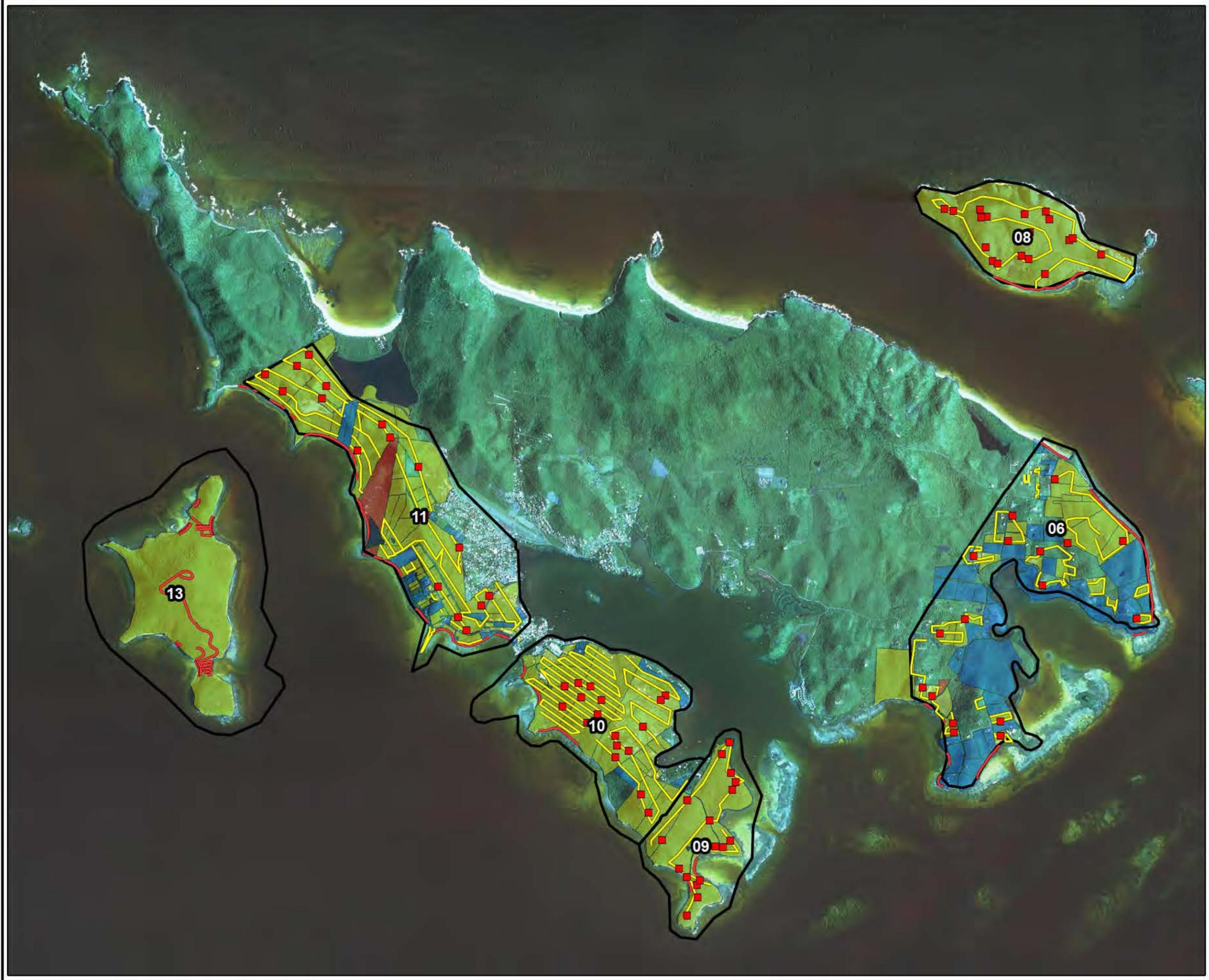
Figure A-36

MRS 13 Intrusive Results Map

Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend	
SI Data	2009 Site Visit MD Findings
MD Observation	105mm Projectile
Other Field Observation	Flare
Small Arms Debris Observation	3-inch Projectile
SI Transects	5-inch Projectile
No MD Found on Transect	Other MD
MD Found on Transect	Fuze
MRS Boundary	Slope over 33 degrees
	Site Visit Tracklog

USA Environmental, Inc.		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 250 meters	Rev: 4	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 2/12/2015		
	Path: S:\Culebra\1RIFS 2009\RI Report\Data Deliverable\MXDs\Fig A- 36_MRS 13 Intrusive Results Map.mxd		



Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Remedial Investigation

Figure A-37

MRS Site Map

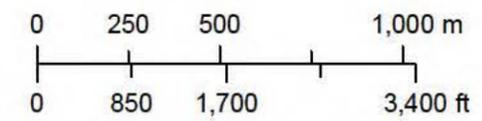
Culebra Island Site
Puerto Rico
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- Geophysical Grids**
- Intrusive Complete (symbols not to scale)
- Transects**
- Analog Transects (Complete)
 - DGM Transects (Complete)
- MRS Boundaries**
- MRS Boundaries
- Rights of Entry**
- Approved
 - No Response
 - Not Approved

		US Army Engineering And Support Center Huntsville, Alabama	
Drawn By: CLH	Scale: 1 inch = 900 meters	Rev: 4	
Checked By:	Date Drawn: 9/13/2012		
Submitted By:	Revision Date: 3/9/2015		

	Path: S:\Culebra1\RIFS 2009\RI Report\Data Deliverable\MXD\Fig A- 37_Right of Entry Map.mxd	
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Data is projected to the UTM Coordinate System:
NAD 1983 UTM Zone 20N

Culebra Island Site
Puerto Rico

Figure A-38

MRS 10/11 Boundary Revision Map

Remedial Investigation
Contract No: W912DY-04-D-0006
Task Order No: 0022

Legend

- Roads
- Original MRS Boundary**
- MRS 10 (454.90 ac)
- MRS 11 (694.79 ac)
- Revised MRS Boundary**
- MRS 10 (953.31)
- MRS 11 (196.37)

USA
Environmental, Inc.

**US Army Engineering
And Support Center
Huntsville, Alabama**

Drawn By: CLH

Scale: 1 inch = 500 meters

Checked By:

Date Drawn: 8/20/2015

Submitted By:

Revision Date: Rev No.



Path: S:\Culebra1\RIFS 2009\RI
Report\Data