Prepared for

U.S. Fish and Wildlife Service
911 NE 11th Avenue
Portland, Oregon 97232
Attn: MaryAnn Amann

2011 ANNUAL REPORT

CERCLA Non-time Critical Removal Action

MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

MIDWAY ISLAND

Contract No. F11PC00327

Prepared by

NW Demolition and Environmental
A Joint Venture

P.O. Box 230819
Tigard, Oregon 97281

503-638-6900

29 February 2012

2011 Annual Report
CERCLA Non-time Critical Removal Action
Midway Atoll National Wildlife Refuge
Midway Island
Contract No. F11PC00327

Prepared for

U.S. Fish and Wildlife Service
911 NE 11th Avenue
Portland, Oregon 97232

Attention: MaryAnn Amann

Prepared by

NW Demolition and Environmental,
A Joint Venture
P.O. Box 230819
Tigard, Oregon 97281
503-638-6900

Darin Leibelt
Project Manager

Richard Wayper
Program Manager

29 February 2012

TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

NW Demolition and Environmental (NWDE) has prepared this year-end summary report on behalf of the U.S. Fish and Wildlife Service (FWS) as part of its contract to complete a non-time critical removal action (NTCRA) relating to the removal of lead-based paint (LBP) from structures and lead-contaminated soil at Sand Island, Midway Atoll National Wildlife Refuge (Refuge or Site).The removal action is being performed by the FWS under the Comprehensive Environmental Response, Compensation, and Liability Act, (CERCLA) clean up authorities [42 United States Code (USC) 9604, 10 USC 2705], Federal Executive Order 12580 and the July 7, 2011 "*Action Memorandum for a Non-Time Critical Removal Action at Midway Atoll National Wildlife Refuge*".

This report documents the activities executed on-island as part of this contract between 12 October and 10 November 2011. The work was conducted in general accordance with the CERCLA Guidelines and the Removal Action Work Plan (RAWP) dated February 29, 2012 and the site-specific Health and Safety Plan (HASP).

2.0 BACKGROUND

A January 2011 Engineering Evaluation/Cost Analysis (EE/CA) (GeoEngineers, 2011) evaluated CERCLA NTCRA alternatives based on a cleanup goal of 75 milligrams per kilogram (mg/kg) for lead in soil. Of the alternatives evaluated, the EE/CA identified Alternative 3 as the chosen method to complete the removal action in each of nine Decision Units (DU) (Figure 1). In general, the scope of work involves: 1) LBP removal from existing structures and re-painting using encapsulation paint; 2) asbestos containing materials (ACM) removal/treatment and demolition with off-site disposal; 3) excavation and on-site treatment and consolidation of lead-contaminated soil; and 4) demolition of several buildings and two above-ground oil storage tanks (AST). Daily Field Logs and photographs of significant activities and accomplishments from the 2011 field season are provided in Appendices A and B respectively.

The excavated soils and demolition debris will be treated with MAECTITE® and disposed of on island. NWDE will use the existing R-2 unit (a former Naval Air Facility [NAF] freshwater treatment unit) for permanent internment of the stabilized waste materials. Design of the final R-2 modifications is ongoing at the time of this document production and will be detailed in a 2012 design document.

The Removal Action will be conducted over multiple years while the majority of the birds are not present on the site. This period is generally July through October of each year. Work elements by year are as follows:

- 2011 – Placing Shade Cloth over the excavation areas in DU1, DU2 and DU6; and lead abatement of Buildings 349, 363, and 357 in DU6.
- 2012 – Design and construction of R-2 and removal actions for DU6 and DU1.
- 2013 – Removal action for DU2.
- 2014 – Removal action for DU4.
- 2015 – Removal actions for DU5 and DU7.
- 2016 – Removal actions for DU3 and DU8.
- 2017 – Removal action for DU9.

3.0 LEAD BASED PAINT ABATEMENT

Lead-based paint (LBP) was abated from exterior surfaces of Buildings 349,363 and 357 and each building was painted during the 2011 field season. Following establishment of an exclusion zone, the placement of plastic groundcover in the area, and sealing off surfaces that were not to be abated, a MAECTITE®/water solution was applied to the surfaces. Following a reaction period, loose, flaking paint chips were removed using hand tools (scrapers). Where surfaces were inaccessible due to safety concerns, loose, flaking paint chips were removed using a power washer. Abated surfaces were rinsed clean by means of a power washer with a detergent (Simple Green®)/water solution. Clean, abated surfaces were then primed with one coat of Lead Stop® primer paint within 24 hours of abatement (after the detergent/water solution had dried). Cracks in the concrete were sealed with an acrylic latex caulk. Abated surfaces were then painted with one coat of the top coat paint after the primer coat dried. Paint chips were swept and vacuumed up immediately following abatement and secured along with soiled polyethylene sheeting drop cloths, PPE and other LBP waste. Abatement waste was stored and secured in a shipping container at the (former) NAF airport hangar for future transportation and disposal.

Buildings 357 and 363 underwent 100% of all surfaces abatement (including all doors, windows and trim) and were repainted on all sides from top to bottom. Abatement at Building 349 was required only on the north facing exterior wall (including overhang eaves and foundation walls making up the loading dock area) and on the fascia on the south, east and west facing side walls (**Figure 2**). With exception of the fascia board, the south, east and west facing side walls of Building 349 were not originally painted and therefore no abatement was required. All abated, exterior surfaces of Buildings 349,

357 and 363 were subsequently repainted following abatement. **Appendix C** provides additional details on the abatement and painting of Buildings 349, 363, and 357.

3.1 Air Monitoring

Air monitoring was conducted in support of LBP abatement activities. Two boundary samples (one upwind and one downwind), two samples inside the work area or exclusion zone and one personal sample were collected for the first five consecutive work days during which LBP was being abated (14 to 19 October 2011). Samples collected between 14 October and 17 October 2011 are representative of conditions during the abatement of Building 349. Samples collected between 18 October and 19 October 2011 are representative of conditions during the abatement of Building363.

Air monitoring results are presented in **Table 1**. Sample results were below the laboratory reporting limit with the exception of the personal sample on October 14. The personal sample (349-L4) was reported at 8.4 µg/m^3, below the OSHA Action Level of 30 µg/m^3 (8 hr.-TWA). A negative exposure assessment was performed based on the air monitoring results. The negative exposure assessment recommended discontinuing air monitoring for lead (**Appendix C**).

4.0 SHADE CLOTH DEPLOYMENT

SunBlocker Premium 70% and 80% shade cloth was installed at DU6, DU1, and DU2. Following an inspection of burrows for Bonin Petrels or Shearwater birds, the vegetated or sandy areas surrounding each building within the DUs were covered with shade cloth. Roads or other hard surfaces surrounding each building were not covered with shade cloth. Where necessary to obtain a smooth, flat, firm foundation to anchor the shade cloth, minor woody vegetation was removed and the area was roughly leveled and lightly compacted with a mini-excavator prior to installing the shade cloth. In areas where grassy vegetation was especially abundant, 80% shade cloth was installed as opposed to 70% shade cloth. The shade cloth was deployed around each building laterally to the maximum distance as specified in the EE/CA for each DU for upcoming soil excavation). Shade cloth was anchored to the prepared surface with a combination of sandbags, spikes, screw-type anchors and cable-ties depending on which method(s) would hold best in the event of high winds. Where practical and appropriate, a two foot deep by one foot wide trench was dug at the outer edge of the area to anchor the shade cloth.

While clearing bird burrows and excavating the shade cloth anchor trench at DU1, various artifacts were encountered. At the direction of FWS, these artifacts were placed

in individual labeled baggies. A map of the area showing the location where each artifact was found along with other related information was provided to an FWS representative.

Figures 2 through 4 document the areas where shade cloth was installed in DU6, DU1 and DU2, respectively. An estimated 119,500, 89,900 and 38,600 square feet of shade cloth were deployed in DU6, DU1, and DU2, respectively. **Appendix A** documents typical shade cloth deployment activities.

5.0 R-2 UNIT DESIGN ACTIVITIES

5.1 Existing Conditions Survey

In advance of treated soil disposal into the R-2 unit, the existing structure and surrounding topography were surveyed for future design considerations. A Leica Viva GS 15 (survey grade, base station and rover unit) GPS system was used to locate important features of the R-2 unit and surroundings relative to an arbitrarily set point. The survey was tied to an existing, nearby monument designated "11855 Midway" (by the National Geodetic Survey) located on the top of the concrete pump house structure at the R-1 unit. The coordinate system for the survey is based upon NAD83 (1993), UTM (Zone1).

Figure 1 shows the location of the R-2 unit on the island. **Figures 5 and 6** document the current state of the R-2 unit based off of the survey.

The survey will be used for containment volume calculations, leachate system design and management, and the cover design and construction. These project components will be addressed in 2012.

5.2 Percolation Testing

Leachate from the R-2 unit is anticipated to be allowed to freely drain through new or existing R-2 unit drains and infiltrate into the ground -. Field-testing to evaluate percolation rates through the soils was performed for leachate management system design considerations.

On 8 November 2011, two temporary piezometers were constructed of nominal 4-inch Schedule 40 PVC casing with a one-foot length of 0.010-inch machine slotted screen. One of the piezometers was placed such that the top of the screen was below the water table at approximately 4.5 feet below ground surface (bgs). The second piezometer was placed such that the base of the piezometer (and therefore the entire screen) was above

the water table. Both piezometers were placed in separate excavations by a mini-excavator and are located just east of Catch Basin #5 along the north side of the runway. After installing both piezometers, approximately 20 gallons of water were poured into the piezometers to allow the disturbed formation to saturate overnight.

Approximately 24 hours following the presoak, water was poured into the piezometers to create approximately 4 ft. of head above the water table. Measurements of the water surface in the piezometer were recorded every 15 seconds relative to the top of casing (TOC). Five tests per piezometer were conducted to demonstrate repeatability of the results.

Appendix D presents the field logs for the percolation tests. Generally, the 4 feet of head added to the piezometers infiltrated into the subsurface within 60 to 90 seconds. Due to the speed at which the water infiltrated, calculations for permeability using the falling head method are not possible and only a constant head test would allow for an accurate determination. However, given the large volume of water required to complete the constant head test and the high permeability (and achievable infiltration rate) observed in the falling head test, additional testing is not required. Based on the speed of infiltration observed in the falling head test, it appears that leachate from the R-2 unit will adequately drain into the subsurface under all foreseeable design scenarios. Additional details will be provided in the upcoming 2012 design documents.

6.0 BORROW SOURCE CHARACTERIZATION

The proposed sand borrow source area located between the cargo and fuel piers was sampled to verify its suitability as future backfill. Multi-increment sampling (MIS) techniques were used to collect one composite soil sample from the borrow source area. Prior to sampling, a Leica Viva GS 15 GPS system was used to establish a temporary grid in the borrow area. **Figure 1** shows the location of the borrow source area on the island. Thirty incremental subsamples were collected along the grid. Three transects evenly spaced out through the source area (aligned length wise) were sampled with ten incremental samples per transect. The first incremental sampling location was randomly selected along the length of each transect. Each incremental sample (equal volume per incremental sample) was collected between ground surface and six inches below ground surface. Each sampling location was documented with the GPS system.

The incremental samples were submitted to Test America laboratory in Honolulu, Hawaii for compositing and analysis using multi-increment sampling laboratory methods and techniques. The composite sample was analyzed using the following methods:

- MIS for Polyaromatic Hydrocarbons (PAHs) (EPA Method 8270 SIM);
- MIS for Pesticides (EPA Method 8081 and 8081A);
- MIS for Polychlorinated Biphenyls (PCBs) (EPA Method 8082), and;
- MIS for Metals (EPA Method 6010B and 6020 and 7471A).

Table 2 documents the analytical results of the source area sample. The laboratory reports from TestAmerica are provided in **Appendix E**.

The analytical results are summarized below:

- No PAHs, Pesticides or PCBs were detected in the sample;
- Barium and Chromium (total) were detected in the sample below the Hawaii Department of Health Environmental Action Levels (Hawaii Department of Health, 2008 and 2009); and
- Lead was detected at 0.51 mg/kg, well below the sites-specific preliminary cleanup goal (PCG) for lead in soil (GeoEngineers, 2011).

The reported concentrations of barium, chromium and lead were also within the common ranges of naturally-occurring background concentrations for coral beach sands in Hawaii (NAVFAC, 2006) and are less than screening levels for natural background concentrations of metals in soil for Hawaii and Guam (Hawaii Department of Health, 2008 and 2009).

7.0 TREATABILITY TESTING OF LBP CONTAMINATED SOIL

LBP impacted soil and demolition debris will be treated with MAECTITE®, a chemical treatment system to convert leachable lead in the soil to non-leachable mixed mineral forms, prior to internment in the R-2 unit. A sample was collected for treatability testing at the lab to optimize the MAECTITE® solution mix ratio specific to typical soils on island. One five-part composite soil sample was collected from locations surrounding Building 643 (DU1). The sample locations attempted to duplicate GeoEngineers sample locations 125, 128, 131, 133 and 138 (as shown on Figure 4, GeoEngineers 2011). These locations were selected to be representative of elevated concentrations of lead encountered during previous site investigations. Each sample was collected from ground surface to one foot bgs and thoroughly mixed. The five

incremental samples were then mixed together and submitted to Test America in Honolulu, Hawaii.

The sample will be analyzed for total lead, then treated with MAECTITE® and following a three-hour contact period between the soil and MAECTITE® reagent, the sample will be analyzed using Multiple Extraction Procedure (MEP). The MEP testing is conducted on treated soils and is designed to predict the potential of lead leaving the treated soil in the R-2 unit as leachate to further confirm the effectiveness of treatment through time. The purpose of this test is to monitor lead sequestration performance and verify proper dosing, contact time, and soil mixing process efficacy. Analytical results were not available at the time of writing this report but will submitted as an addendum upon receipt.

8.0 BIBLIOGRPAHY

Code of Federal Regulations Title 40: "*Protection of Environment, Chapter I, Subchapter J, Part 300 – National Oil and Hazardous Substances Pollution Contingency Plan*." Available from epa.gov/docs/epacfr40/Chapt-I.info/subch-j.htm; Internet.

GeoEngineers, Inc. 18 January 2011. *Engineering Evaluation/Cost Analysis, Midway Atoll National Wildlife Refuge, Midway Island.*

Hawaii Department of Health, 2008, Environmental Management Division. *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater, Volume 1,* Summer 2008 (updated March 2009).

Hawaii Department of Health, 2009, Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater, Pacific Basin Edition, Summer 2008, updated March 2009.

NAVFAC, 2006. *Environmental Background Analysis of Metals in Soil at Navy Oahu Facilities, Oahu, Hawaii*. June, 2006.

NW Demolition and Environmental, A Joint Venture, 29 February 2012. *Removal Action Work Plan, Removal of Lead-Based Paint from Structures and Lead-Contaminated Soil, Midway Atoll National Wildlife Refuge, Midway Island*

U.S. Environmental Protection Agency (USEPA), 1993. "*Guidance on Conducting Non-Time-Critical Removal Actions Under CERCLA*," Office of Solid Waste and Emergency Response, PB93-963402, 9360.0-32, EPA540-R-93-057, August 1993.

U.S. Fish & Wildlife Service, 7 July 2011. Memorandum to Regional Director, Region I, from Assistant Regional Director, Budget and Administration, Region I: *Action Memorandum for a Non-Time Critical Removal Action at Midway Atoll National Wildlife Refuge, Sand Island*.

TABLES

Table 1
AIR MONITORING RESULTS
MIDWAY ATOLL NWR
Contract No. F11PC00327

Sample ID	Sample Date	Location	Descriptor	Result (µg/m^3)
349-L1	10/14/2011	Bldg 349	Inside Work Area	<3.3
349-L2			Boundary, Upwind	<3.3
349-L3			Boundary, Downwind	<3.3
349-L4			Personal	8.4
349-L5			Inside Work Area	<3.3
349-L6	10/15/2011	Bldg 349	Inside Work Area	<3.0
349-L7			Inside Work Area	<3.0
349-L8			Boundary, Upwind	<3.0
349-L9			Boundary, Downwind	<3.0
349-L10			Personal	<3.0
349-L11	10/17/2011	Bldg 349	Inside Work Area	<5.3
349-L12			Inside Work Area	<5.3
349-L13			Boundary, Upwind	<5.3
349-L14			Boundary, Downwind	<5.3
349-L15			Personal	<5.3
63-L1	10/18/2011	Bldg 363	Inside Work Area	<18
63-L2			Inside Work Area	<18
63-L3			Boundary, Upwind	<18
63-L4			Boundary, Downwind	<18
63-L5			Personal	<18
63-L6	10/19/2011	Bldg 363	Inside Work Area	<2.9
63-L7			Inside Work Area	<2.9
63-L8			Boundary, Upwind	<2.9
63-L9			Boundary, Downwind	<2.9
63-L10			Personal	<2.9

Table 2
BORROW / BACKFILL SAMPLE ANALYTICAL RESULTS
MIDWAY ATOLL NWR
Contract No. F11PC00327

Analysis Method	Sample ID	MDW-BORROW
	Date Sampled	10/19/2011
	Analyte	Result
Metals - EPA Method 6010B, 6020, & 7474A (mg/kg)	Arsenic	<5.9
	Barium	4.7
	Cadmium	<0.98
	Chromium	4.4
	Lead	0.51
	Selenium	<9.8
	Silver	<2.0
	Mercury	<0.019
PAHs - EPA Method 8270 SIM (mg/kg)	1-Methylnaphthalene	<0.00650
	2-Methylnaphthalene	<0.00650
	Acenaphthene	<0.00649
	Acenaphthylene	<0.00650
	Anthracene	<0.00650
	Benzo(a)anthracene	<0.00650
	Benzo(a)pyrene	<0.00650
	Benzo(b)flouranthene	<0.00650
	Benzo(g,h,i)perylene	<0.0136
	Benzo(k)fluoranthene	<0.00650
	Chrysene	<0.00650
	Dibenzo(a,h)anthracene	<0.00650
	Fluoranthene	<0.00649
	Fluorene	<0.00650
	Indeno(1,2,3-cd)pyrene	<0.00650
	Naphthalene	<0.00649
	Phenanthrene	<0.00650
	Pyrene	<0.00650
Pesticides - EPA Method 8081 & 8081A (mg/kg)	4,4'-DDD	<0.00391
	4,4'-DDE	<0.00391
	4,4'-DDT	<0.00391
	Aldrin	<0.00391
	alpha-BHC	<0.00391
	beta-BHC	<0.00391
	delta-BHC	<0.00391
	Chlordane	<0.322
	Dieldrin	<0.00391
	Endosulfan I	<0.00391
	Endosulfan II	<0.00391
	Endosulfan sulfate	<0.00391
	Endrin	<0.00391
	Endrin aldehyde	<0.00391

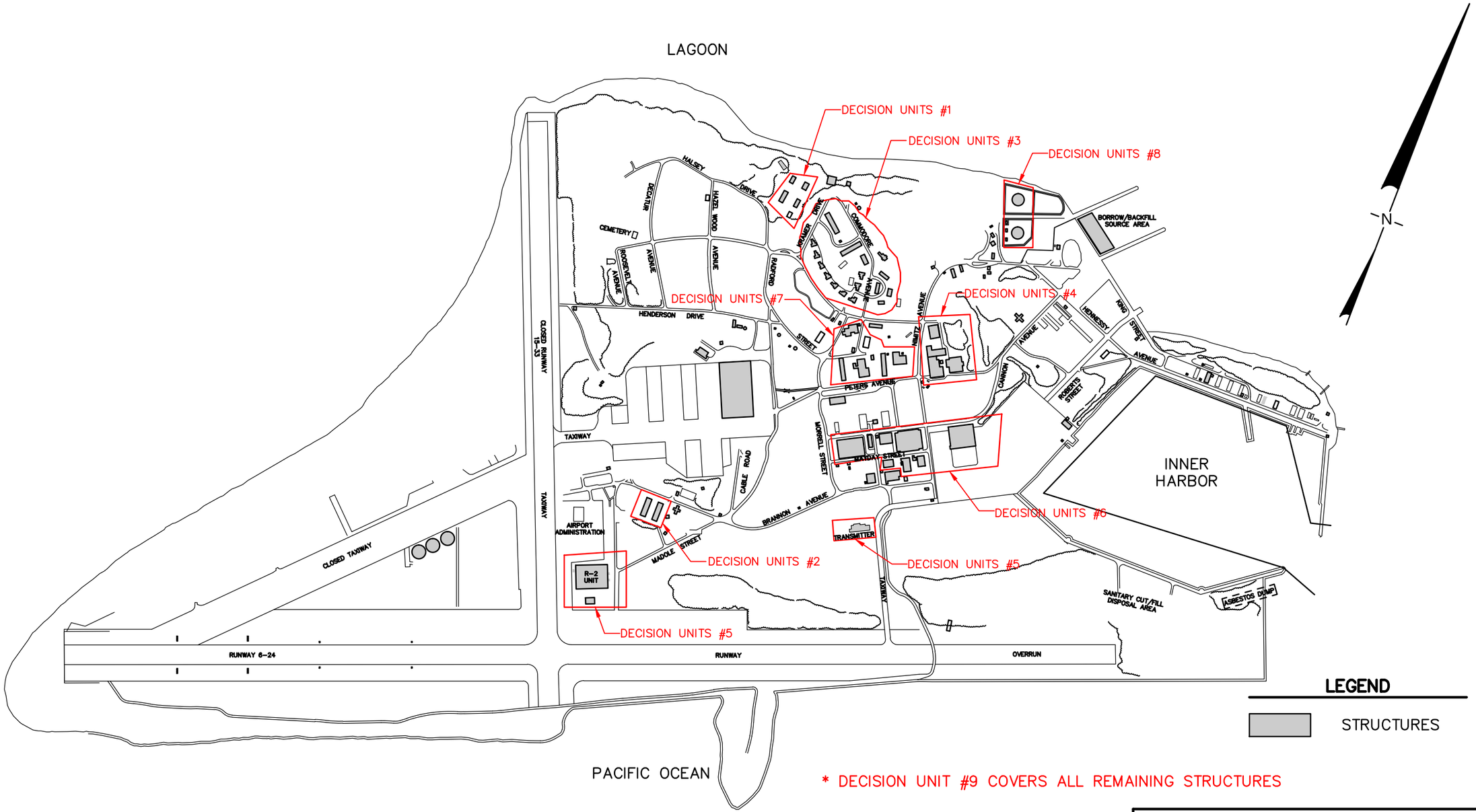
Table 2
BORROW / BACKFILL SAMPLE ANALYTICAL RESULTS
MIDWAY ATOLL NWR
Contract No. F11PC00327

Analysis Method	Sample ID	MDW-BORROW
	Date Sampled	10/19/2011
	Analyte	Result
	Endrin ketone	<0.00391
	gamma-BHC (Lindane)	<0.00391
	Heptachlor	<0.00391
	Heptachlor epoxide	<0.00391
	Methoxychlor	<0.005
	Toxaphene	<0.0489
	alpha-Chlordane	<0.00391
	gamma-Chlordane	<0.00391
PCBs - EPA Method 8082 (mg/kg)	Aroclor 1016	<0.0311
	Aroclor 1221	<0.0621
	Aroclor 1232	<0.0311
	Aroclor 1242	<0.0311
	Aroclor 1248	<0.0311
	Aroclor 1254	<0.0311
	Aroclor 1260	<0.0311

Notes

1. "<#" is interpreted as not detected above the Reporting Limit concentration

FIGURES



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 1000' 2000'

SCALE IN FEET

SITE LAYOUT WITH DECISION UNITS

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

DECEMBER 2011

Figure: 1

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\2011 REPORT\0511F001

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.
3. A TOTAL OF 119,500 SF OF SHADECLOTH WAS DEPLOYED IN DECISION UNIT #6.

LEGEND

SHADECLOTH DEPLOYED

SITE LAYOUT - DECISION UNIT 6

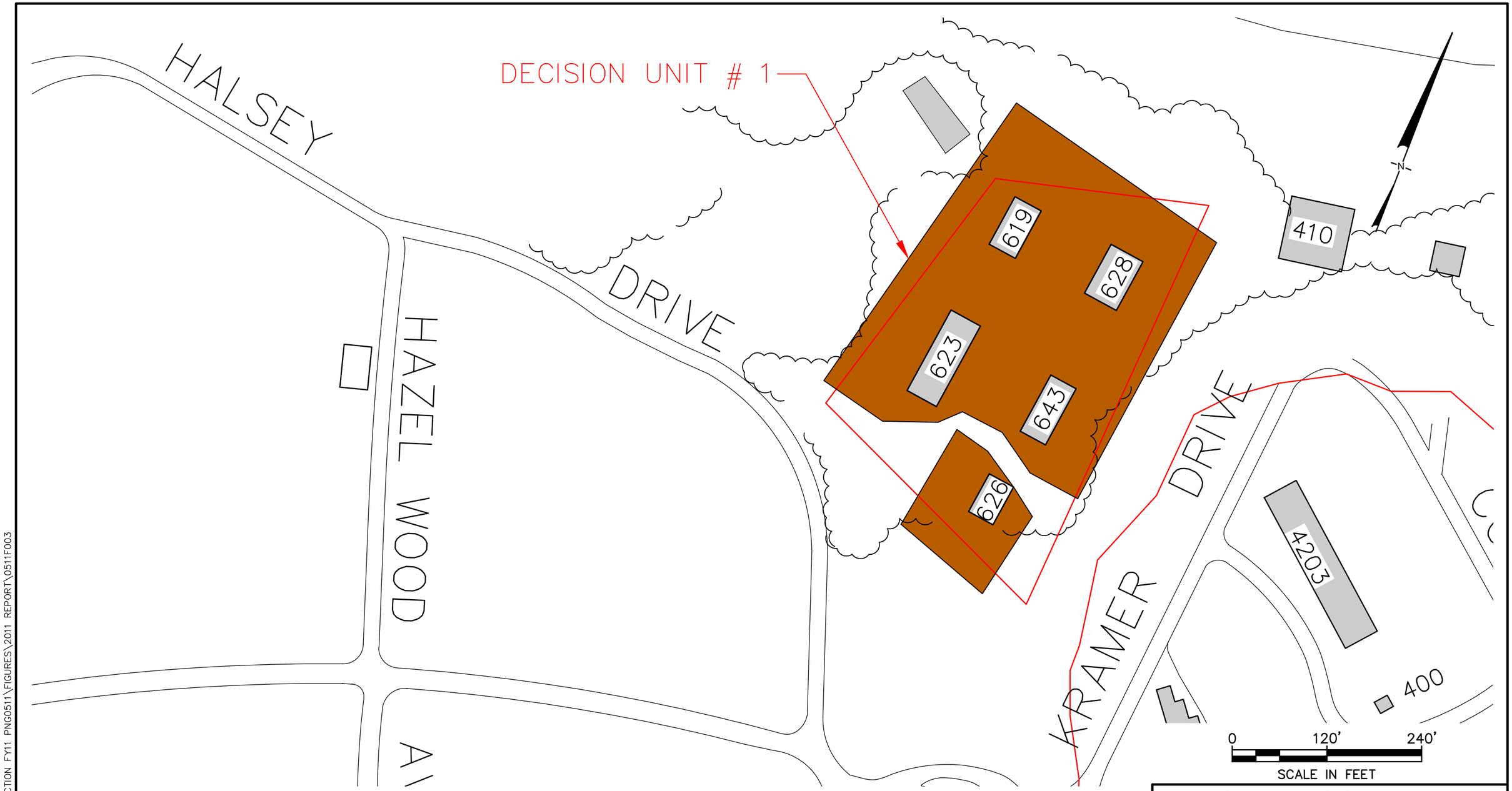
REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

DECEMBER 2011

Figure:
2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\2011 REPORT\0511F002



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.
3. A TOTAL OF 89,900 SF OF SHADECLOTH WAS DEPLOYED IN DECISION UNIT #1.

LEGEND

SHADECLOTH DEPLOYED

SITE LAYOUT - DECISION UNIT 1

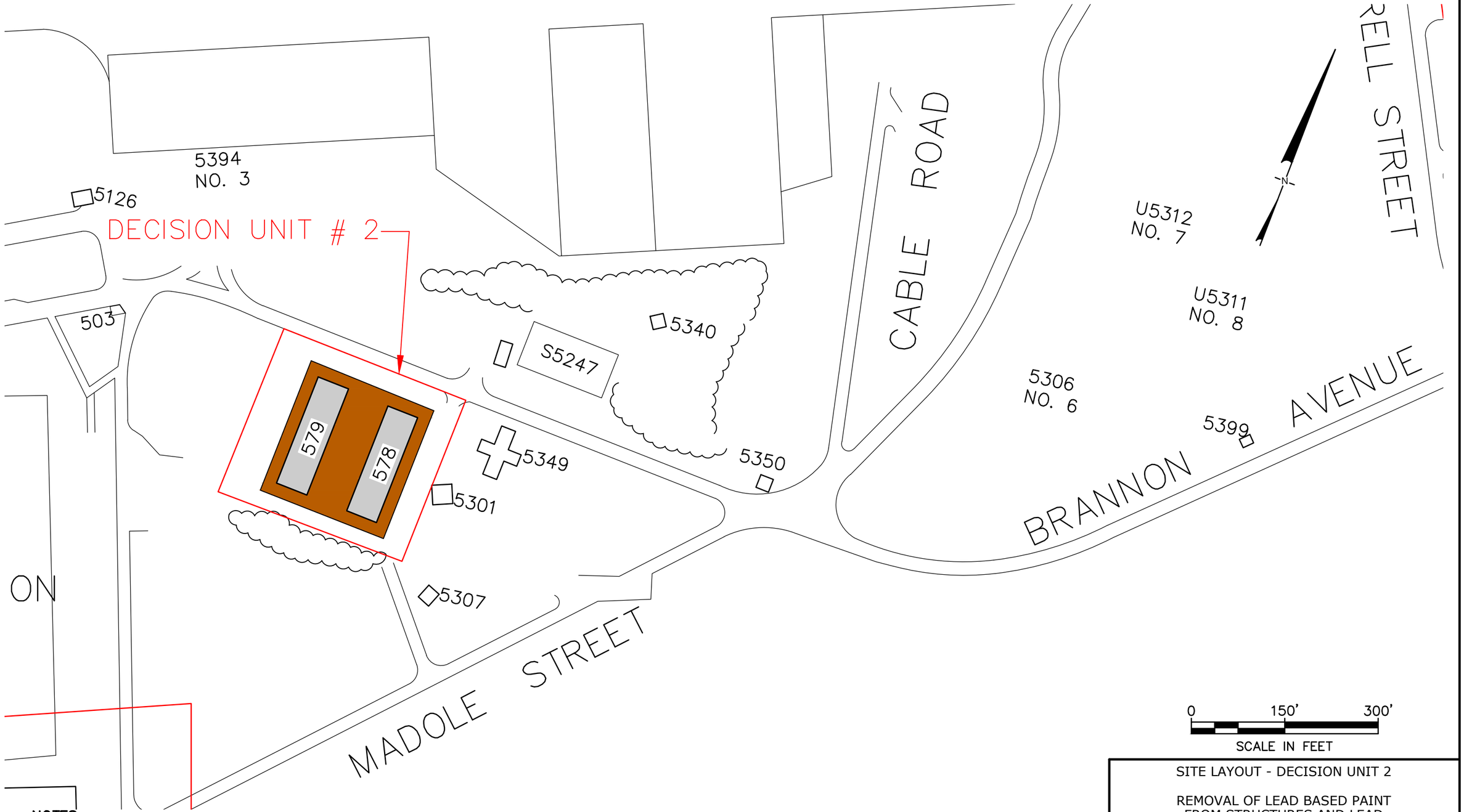
REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

DECEMBER 2011

Figure:
3

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\2011 REPORT\0511F003



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.
3. A TOTAL OF 38,600 SF OF SHADECLOTH WAS DEPLOYED IN DECISION UNIT #2.

LEGEND

SHADECLOTH DEPLOYED

0 150' 300'

SCALE IN FEET

SITE LAYOUT - DECISION UNIT 2

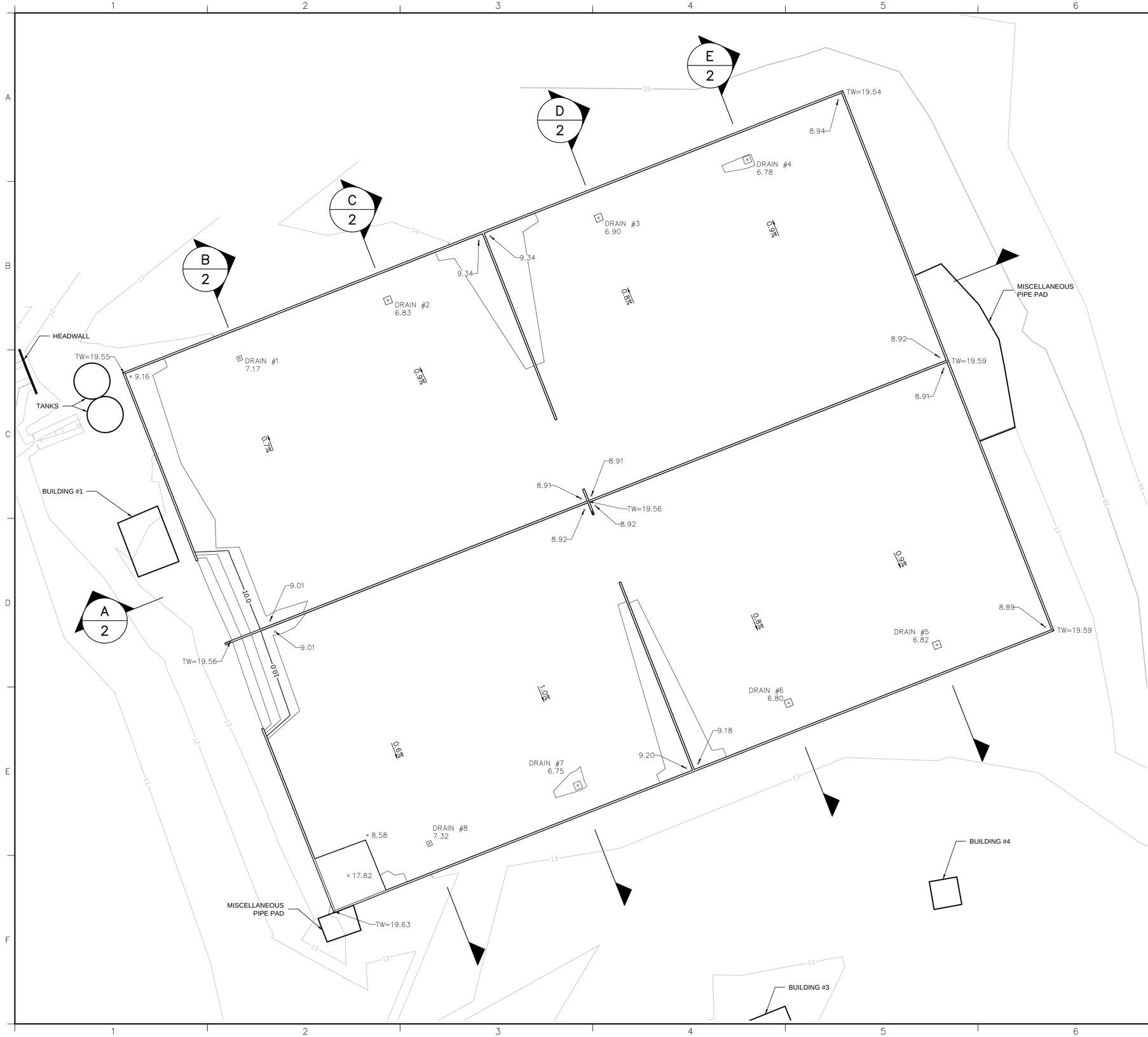
REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

DECEMBER 2011

Figure:
4

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PN00511\FIGURES\2011 REPORT\0511F004



SITE LOCATION

0 800' 1600'

AERIAL SCALE IN FEET

LEGEND

730 EXISTING GROUND MAJOR CONTOUR (5')

EXISTING GROUND MINOR CONTOUR (1')

730 UNIT R2 AS-BUILT MAJOR CONTOURS (2.5')

UNIT R2 AS-BUILT MINOR CONTOURS (0.5')

× 8.71 AS-BUILT SPOT ELEVATION (FEET)

-N-

0 30' 60'

SCALE IN FEET

NOTES:

1. COORDINATE SYSTEM BASED UPON NAD83 (1993), UTM (ZONE 01).
2. AERIAL PHOTOGRAPHY PROVIDED BY DIGITALGLOBE-GEOEYE, 2011

REV	DATE	DESCRIPTION	DRN	APP

Geosyntec consultants
10875 RANCHO BERNARDO RD, SUTE 200
SAN DIEGO, CA 92127
PHONE: 858.674.6559

TITLE: UNIT R2 AS-BUILT SURVEY

PROJECT: UNIT R2 CAP DESIGN

SITE: MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

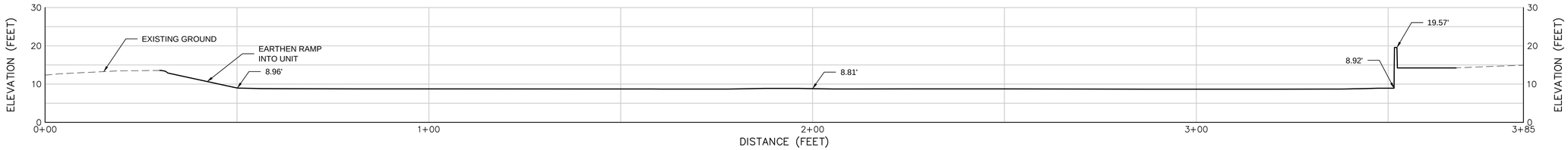
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

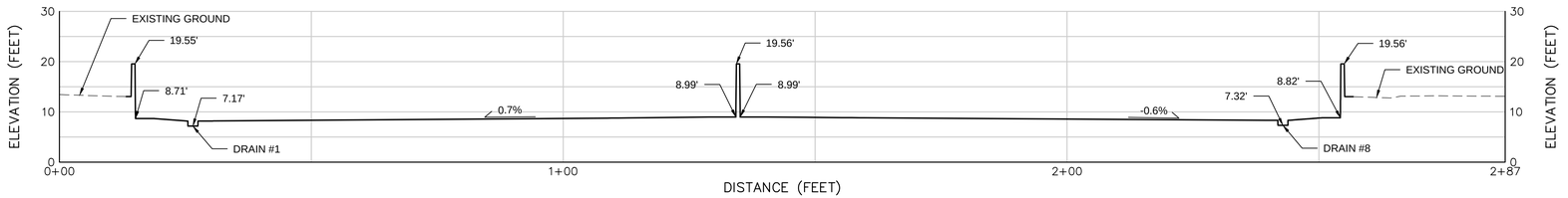
DATE

DESIGN BY:	GTC	DATE:	DECEMBER 2011
DRAWN BY:	MMC	PROJECT NO.:	PNG0511
CHECKED BY:	GTC	FILE:	SITE R2 UNIT SURVEY-11-14-11
REVIEWED BY:	GTC	FIGURE NO.:	5
APPROVED BY:	GTC		

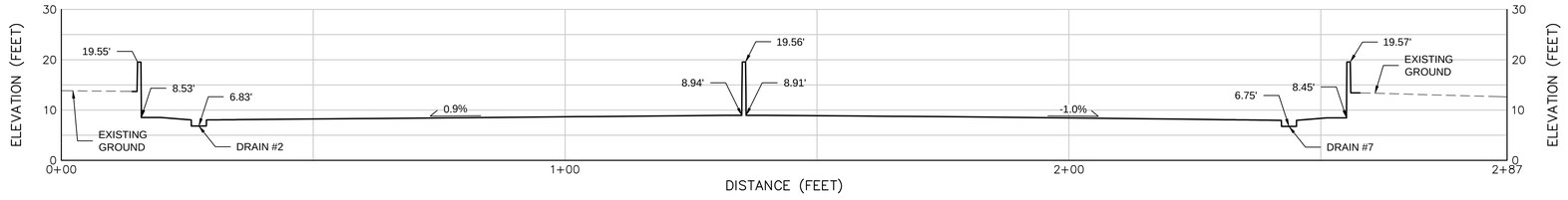
P:\PRJ\SDCadd\CADD\PNG0511 MIDWAY\C3D\Surfaces\SITE R2 UNIT SURVEY-11-14-11.dwg



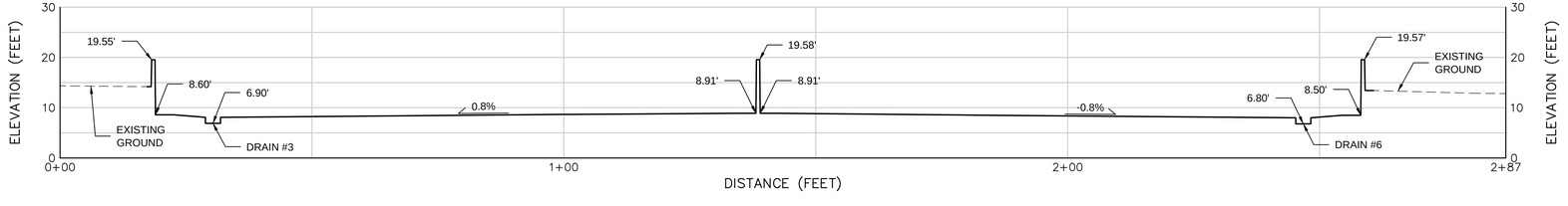
PROFILE A



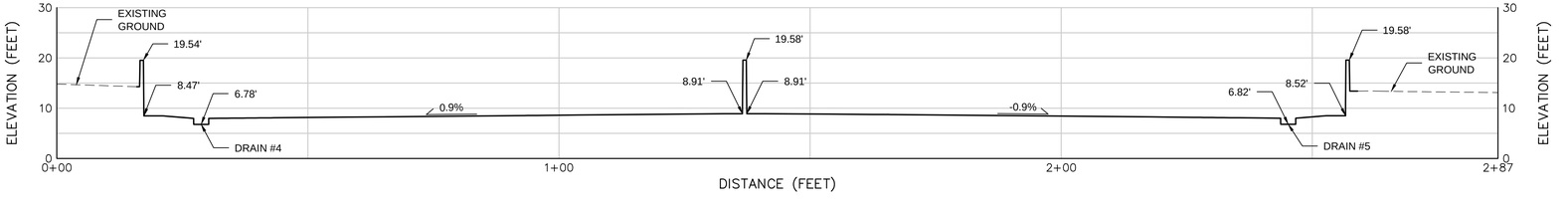
PROFILE B



PROFILE C



PROFILE D



PROFILE E

0 15' 30'

SCALE IN FEET
(HORIZONTAL = VERTICAL)

REV	DATE	DESCRIPTION	DRN	APP

Geosyntec consultants

10875 RANCHO BERNARDO RD, SUTE 200
SAN DIEGO, CA 92127
PHONE: 858.674.6559

TITLE: PROFILES

PROJECT: UNIT R2 CAP DESIGN

SITE: MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	GTC	DATE:	DECEMBER 2011
DRAWN BY:	MMC	PROJECT NO.:	PNG0511
CHECKED BY:	GTC	FILE:	SITE R2 UNIT SURVEY-11-14-11
REVIEWED BY:	GTC	FIGURE NO.:	6
APPROVED BY:	GTC		

P:\PRJ\SDCadd\CADD\PNG0511 MIDWAY\C3D\Surfaces\SITE R2 UNIT SURVEY-11-14-11.dwg

Appendix A
Daily Field Reports

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: October 12, 2011

Project: Midway
Description: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Medium to High wind, Partly Cloudy, Temps ~ 80's

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	8
Everett White	NWDE Super.	8
Jose Ordaz	NWDE Laborer	8
Vuyani Ntantiso	NWDE Laborer	8
Brian Carns	NWDE Laborer	8
Dane Borero	NWDE Laborer	8
Michael Schott	NWDE SSHO / QC	8
Gary Lewis	Iniki Supervisor	8
Jeremy Kauwe	Iniki Lead Abate Super.	8
Eric Alcosiba	Iniki Lead Abate	8
Noah Wond	Iniki Painter	8
Armando Viloria	Iniki Painter	8
Samuel Awai	Iniki Painter Super	8
Ben Joaquin Jr.	Iniki Lead Abate	8
Evan Esposito	Iniki Painter	8
Antonio Perry III	Globetech Industrial Hygenist	8

Visitors:

Name	Company
Greg (Crane Operator)	Local 3

Equipment:

Description	Model No.	Comments
None for Day		

Materials Delivered:

Description	QTY	Condition/Comments
None for Day		

Description of Work:

~0615 HST – All workers (NWDE, Iniki, Geosyntec, Globetech) and 1 Crane Operator (17 total) at Asheville Jet.

~0930 (On island Time, 1 hour later than HST) – arrive at Midway. Crane Operator is escorted to operate the Crane to offload the Kahauna.

0945 – Escorted to Hotel Charlie where the group is briefed by Darlene (Chugach) on logistics related to life on the island, meal service and emergency procedures. Following briefing, all check into rooms to get settled.

1145 – lunch

1230 – Group at visitors center to receive a medical briefing from on island P. A. Patty O.

1300 – 1430 - Group receives briefing from FWS biologist Pete L. covering history, culture, biology on land and in waters.

1430 – 1630 – Group takes a walking tour of Decision Unit 6 and Decision Unit 1 with Mary Ann A. FWS Project PM. End of Day.

Photographs:

None for Day.

Site Map

None for Day.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: October 13, 2011

Project: Midway
Description: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Intermittent rain and wind in the morning, clearer with lighter wind in the afternoon, Temps ~ 80's

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	10
Everett White	NWDE Super.	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Michael Schott	NWDE SSHO / QC	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Antonio Perry III	Globetech Industrial Hygenist	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Flatbed Truck		Iniki (rental)
Man Lift	JLG	Iniki (rental)
Skid Steer	Bobcat	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Shipping Containers	7?	

Description of Work:

0700-0730: Review safety plan with workers and FWS PM.

0730-0800: Michael and Darin review and discuss necessary edits with FWS PM. FWS PM requests the HASP and RAWP be more “user friendly” and more detail as to how different work tasks are to be performed and more detail on what work is being performed on each Decision Unit

0800 - 1200: NWDE and Iniki are staging shipping containers at the Airport Terminal Building and getting organized. Iniki begins preparing the loading dock area of Bldg 349 for LBP abatement by sealing off with plastic sheeting portions of the loading dock not being abated. Globetech is setting up air monitoring samples. NWDE is removing shadecloth from shipping containers and preparing to fill sand bags with sand from the borrow area.

1200 – 1230: Lunch

1230: NWDE is filling sandbags for use in shadecloth installation. Iniki continues preparing for abatement work at Bldg 349.

1400 – NWDE is checking for Petrels in their burrows between buildings 356 and 349. Iniki is applying an Maectite / water solution.

1430 – FWS PM stops Iniki from Maectite / water solution application on the eaves of the loading dock overhang over concerns of spray or drift outside the containment zone. Decision was made to close off a larger area to prevent potential exposure to un-protected persons outside the exclusion zone.

1500 – Iniki completes Maectite / water application. Iniki begins assisting with Petrel burrow inspections surrounding Bldg 349 and assisting with shadecloth deployment.

1730 – An estimated 8,000 sq. ft. of shadecloth was deployed between bldgs. 349 and 356 as well as along the west wall of 356 and the south wall of 349. See attached map. An estimated 10 to 12 Petrels were retrieved from their burrows prior to shadecloth deployment. End of Day.

Photographs:

Photo 01 – Iniki preparing for abatement of the eaves or overhang of the loading dock

Photo 02 – Petrel removed from between Bldgs. 349 and 356

Photo 03: Preparing for Maectite / water solution application to overhang eaves of Bldg 349

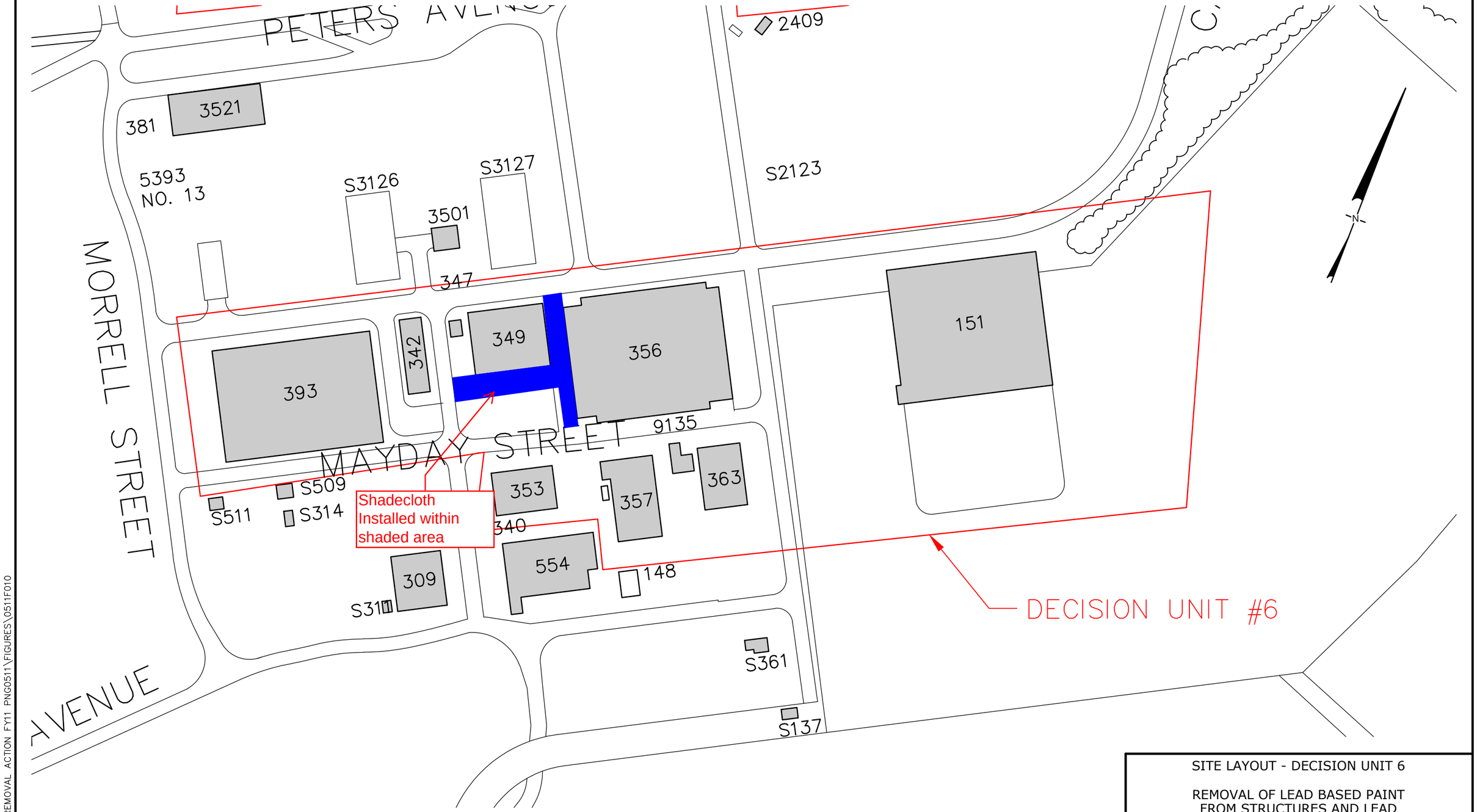
Photo 04: Shadecloth deployment between Bldgs. 356 and 349

Photo 05: Shadecloth deployment along south wall of Bldg 349

Site Map

See following page for shadecloth deployment.

.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: October 14, 2011

Project: Midway
Description: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Calm to light wind, Temps ~ 80's, humid

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	9.5
Everett White	NWDE Super.	9.5
Jose Ordaz	NWDE Laborer	9.5
Vuyani Ntantiso	NWDE Laborer	9.5
Brian Carns	NWDE Laborer	9.5
Dane Borero	NWDE Laborer	9.5
Michael Schott	NWDE SSHO / QC	9.5
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Antonio Perry III	Globetech Industrial Hygenist	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Flatbed Truck		Iniki (rental)
Man Lift	JLG	Iniki (rental)
Skid Steer	Bobcat	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715: Tailgate Safety briefing with workers and FWS PM.

0715 - NWDE crew discusses safety and the Scope for the day. NWDE will continue with sandbags and shadecloth deployment along the south and west sides of Bldg 349. Iniki is continuing with LBP abatement of the eaves / overhang of Bldg 349 loading dock.

1030 – Michael and Darin talk with Pete L, US FWS and FWS PM about the need to cut the tall grass surrounding Bldg 363 and others in Decision Unit 6. Pete will ask Chugach to cut the grass to facilitate shadecloth deployment.

1040 – Iniki is starting abatement followed immediately by painting of fascia board only on the east side of Bldg 349 and continuing with abatement of the eaves / overhang of Bldg 349 loading dock. NWDE continues with shadecloth deployment at Bldg 349.

1110 – Michael goes with FWS PM to meet Tim, FAA, the Airport Manager concerning the need to access the R-2 unit for surveying. Michael will plan to complete the surveying on Monday, 10/17. FWS PM then shows Michael benchmark she has found near the water pumping station and benchmarks (5) in the harbor area. The FWS PM has hardcopy maps with the coordinates and elevations on it for the benchmark near the pumping station.

1200 – lunch

1230 – NWDE continues with shadecloth deployment along the south and west walls of Bldg 349. Iniki continues with abatement activities on Bldg 349.

1400 – 1430 – NWDE is checking petrel burrows for birds along the north wall of Bldg 363 in advance of shadecloth deployment . 3 petrels were removed from the area.

1500-1700 – NWDE installs shadecloth along the north wall of Bldg 363. Iniki continues with abatement activities on Bldg 349. Iniki completes abatement activities along the east side of Bldg 349. Approximately 11,300 sq ft of shadecloth was installed today. End of day.

Photographs:

Photo 01 – Iniki abatement along north and east walls of Bldg 349

Photo 02 – Iniki scraping loose paint from eaves / overhang of Bldg 349

Photo 03: Shadecloth deployment along south wall of Bldg 349

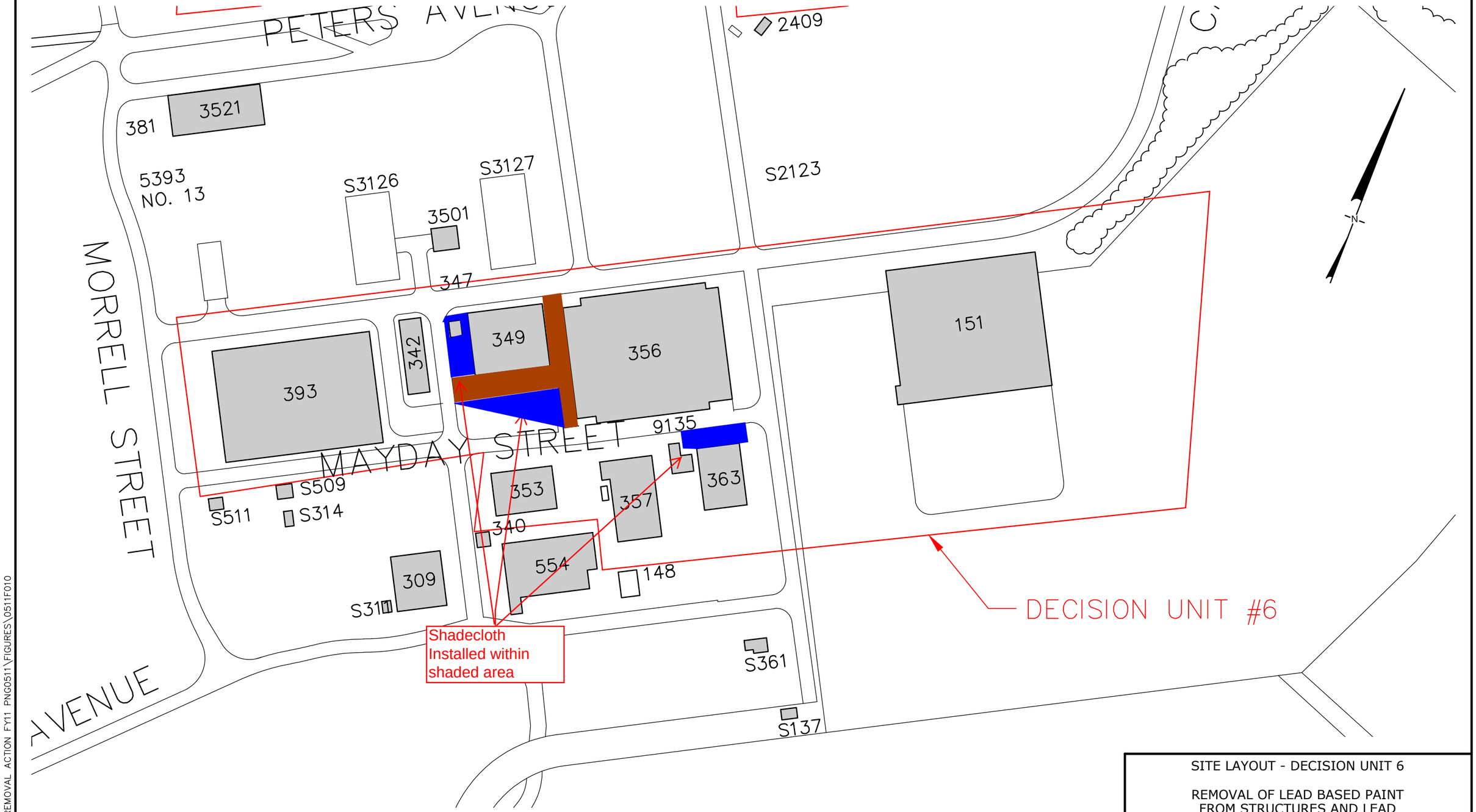
Photo 04: Iniki abatement followed immediately by painting along east wall of bldg 349

Photo 05: Shadecloth deployment along west wall of Bldg 349

Site Map

See following page for shadecloth deployment.

.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
8

OCTOBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: October 15, 2011

Project: Midway
Description: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Intermittent rain through mid afternoon, partly cloudy in later afternoon, Temps ~ 80's, humid

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	10
Everett White	NWDE Super.	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Michael Schott	NWDE SSHO / QC	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Antonio Perry III	Globetech Industrial Hygenist	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	JLG	Iniki (rental)
Skid Steer	Bobcat	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715: Tailgate Safety briefing with workers and FWS PM. It was decided that the larger group would only meet on Monday mornings as a group. NWDE and Ininki both have separate Tailgate Safety Meetings with their individuals crews every morning, therefore the larger group meeting will be reduce in frequency. FWS PM requests that the Daily Field Reports be sent to her by the end of the week.

0715 – Following Tailgate Safety briefings of both crews, Iniki returns to Bldg 349 for abatement activities and NWDE returns to Bldg 363 to continue shadecloth installation.

0730 – NWDE inspects Petrel burrows for birds along the east wall of Bldg 363. No birds found. NWDE filling sandbags.

0800 - NWDE inspects Petrel burrows along the south wall. No birds found.

0915 – Iniki continuing with abatement of the eaves / overhang of Bldg 349. NWDE is installing shadecloth along the east wall of Bldg 363.

0930 – NWDE begins excavating a trench along the south wall (offset 50 ft) of Bldg 363. A 6” PVC pipe was encountered during the trenching. The origin of the PVC pipe is unknown. The PVC pipe was not previously identified as part of the utility locates.

1145 – 1245- lunch. (Workers packed a dinner and returned it to their respective rooms as there was no dinner service this evening. Dining Facility is closed for cleaning.

1245 – NWDE inspects Petrel burrows for birds along the south wall of Bldg 363. No birds found during the day. Approximately 6 manhours were spent checking Petrel burrows today. NWDE continues with shadecloth deployment along the east side wall of Bldg 363.

1330 – Iniki is preparing to paint the first coat of the eaves / underhang and exterior paneling on the north wall of Bldg 349. Iniki begins abatement activities of the fascia board along the west wall of Bldg 349.

1550 – Iniki continues with painting along the north wall and abatement along the west wall of Bldg 349.

1245 – 1730 –NWDE continues with shadecloth deployment along the east and south wall of Bldg 363. A total of 11,530 sq ft of shadecloth was deployed today. Iniki completes painting the first coat along the north wall of Bldg. 349.

Photographs:

Photo 01 – Iniki abatement along north wall of Bldg 349

Photo 02 – NWDE trenching along south wall (50' offset) of Bldg. 363

Photo 03: 6” PVC encountered during trenching

Photo 04: Iniki painting first coat on north wall of Bldg 349

Photo 05: Shadecloth deployment along east wall of Bldg 363

Photo 06 : Completd shadecloth deployment on east and south wall of Bldg 363.

Site Map

See following page for shadecloth deployment.

PETERS AVENUE

MORRELL AVENUE

MAYDAY STREET

381

3521

5393
NO. 13

S3126

3501

S3127

347

2409

S2123

151

393

342

349

356

9135

353

357

363

340

554

148

309

S311

S509

S511

S314

S361

S137

Shadecloth
Deployed in
Shaded Area

DECISION UNIT #6

N

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Monday, October 17, 2011

Project: Midway
Description: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Morning high winds and cloudy, afternoon clearer and less wind, Temps ~80

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	10
Everett White	NWDE Super.	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Michael Schott	NWDE SSHO / QC	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Antonio Perry III	Globetech Industrial Hygenist	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	JLG	Iniki (rental)
Skid Steer	Bobcat	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715: Tailgate Safety briefing with workers and FWS PM. Iniki splits off to start with their Tailgate Safety Meeting and prep for the days tasks.

0730 – NWDE has a Tailgate H&S meeting. Start inspection of Petrel burrows on west wall of Bldg 363. Iniki is abating fascia on south wall and west wall of Bldg 349. Iniki continues painting on north wall of Bldg 349.

1000 – Weekly conference call with US FWS, NWDE, Iniki, and Geosyntec. Meeting Minutes to follow as a separate document.

1055- NWDE continues with inspecting for Petrels on west side of Bldg 363.

1200 – Lunch

1230 – Iniki prepping for final coat on North side of Bldg 349 and continues abatement on south wall (fascia board only). Michael surveys R-2 unit for initial design.

1715 – Michael completes survey of R-2 unit.

Iniki is continuing painting the final coat on the north side of Bldg 349 (walls, doors, trim). Iniki began prepping Bldg 363 for the Abatement process by putting down and taping plastic around the outside of building on the east side.

Per Iniki, US FWS PM provides green paint (about 15 gallons) to paint trim and doors.

NWDE installed shadecloth between Bldg 363 and Bldg 357. NWDE trenched behind (south side) of Bldg 357 to facilitate shadecloth. A 12” PVC pipe and conduit was encountered but not damaged.

1730 – End of Day. Approximately 12 manhours spent inspecting Petrel burrows. 15 total birds were encountered / removed today. A total of 10,700 sq ft. of shade cloth was laid today.

Cumulative Manhours for Petrel Inspections: 52

Photographs:

Photo 01 – NWDE inspecting Petrel burrows along west wall of Bldg 349

Photo 02 – Iniki working on final coat, north wall Bldg. 349

Photo 03: Iniki working on final coat on trim (green color), north wall Bldg 349

Photo 04: Iniki working on final coat of trim (green color) on north and east wall of Bldg 349

Photo 05: Shadecloth deployment along west wall of Bldg 363, platic sheeting is in preparation for Iniki's work on Bldg 363

Photo 06 : Shadecloth deployment between Bldg 363 and 357.

Site Map

See following page for shadecloth deployment.

.

PETERS AVENUE

MORRELL AVENUE

MAYDAY STREET

3521

381

5393
NO. 13

S3126

3501

S3127

347

2409

S2123

151

393

342

349

356

9135

353

357

363

340

354

148

309

S311

S509

S511

S314

S361

S137

N

DECISION UNIT #6

Shadecloth previously deployed

Shadecloth deploy on this day

Shadecloth
Deployed in
Shaded Area

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, October 18, 2011

Project: Midway
Description: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Medium winds and partly cloudy to clear, Temps ~80

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	10
Everett White	NWDE Super.	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Michael Schott	NWDE SSHO / QC	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Antonio Perry III	Globetech Industrial Hygenist	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	JLG	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift		Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715:NWDE has a Tailgate safety briefing and resumes shadecloth deployment tasks along the south wall of Bldg 357.

0730-0800 NWDE initiates inspection of Petrel burrows along south and west wall of Bldg 357.

0900: Iniki is working on first (primer) coat on fascia board only on west wall and setting up for Maectite application on east wall of Bldg 363.

1110 – NWDE begins laying down shadecloth along south wall of Bldg 357. Iniki is working on Maectite application on Bldg 363 north and east wall. Iniki is painting first coat (primer) on south wall (fascia board) only Bldg 349. Iniki continues with doors and trim painting on north side Bldg 349.

1200 - Lunch

1230 Iniki and NWDE resume activities. Michael goes to survey the borrow site.

1610 – Michael is complete with surveying the borrow site.

Iniki continues working on Final coat on trim and doors on North wall, east and south wall final coat (fascia board only) of Bldg 349. Iniki complete MAectite application on all sides of Bldg 363 and starts abatement on south wall.

NWDE continued with shadecloth deployment on south and east side walls of Bldg 357.

Chugach was directed by FWS to remove debris between Bldgs 357, 354 and 353. Chugach removed what appeared to be a vault box along with the PVC casing and screen for a injection/extraction/monitoring well. The vault was located between Bldg 354 and 353.

1730 – End of Day. Approximately 5 manhours spent inspecting Petrel burrows. 7 total birds were encountered / removed today. Approximately 14, 200 sq ft of shadecloth was deployed today.

Cumulative Manhours for Petrel Inspections: 59

Photographs:

Photo 01 – Iniki continues with Final coat (green color) on trim, north wall Bldg 349

Photo 02 – Final coat (green color) on fascia board only, south wall Bldg 349

Photo 03: Iniki working on final coat on fascia board only (green color), east wall Bldg 349

Photo 04: Iniki working on abatement on south wall of Bldg 363

Photo 05: Shadecloth deployment along south wall of Bldg 357

Photo 06 : Shadecloth deployment between Bldg 357 and 354.

Site Map

See following page for shadecloth deployment.

.

PETERS AVENUE

MORRELL AVENUE

MAYDAY STREET

3521

381

5393
NO. 13

S3126

3501

S3127

347

S2123

2409

393

342

349

356

9135

151

S509

S511

S314

353

357

363

340

354

148

309

S310

S361

S137

DECISION UNIT #6

N

Shadecloth previously deployed

Shadecloth deploy on this day

Shadecloth
deployed today

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Wednesday, October 19, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Medium with gusts of high winds and partly cloudy to clear, Temps ~70s

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	10
Everett White	NWDE Super.	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Michael Schott	NWDE SSHO / QC	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Antonio Perry III	Globetech Industrial Hygenist	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	JLG	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift		Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715:NWDE has a Tailgate safety briefing and resumes shadecloth deployment tasks along the north wall of Bldg 357.

1030: NWDE is working on shadecloth deployment along north wall of Bldg 357 and between Bldg 357 and Bldg 353

Iniki is abating overhang of second story west wall (with roof access), south wall is complete, east wall is mostly completely abated. Iniki continues painting final coat on east wall (fascia only) and painting north side trim and doors of Bldg 349. Iniki is brushing on Maectite on the exposed metal/wood edge of the loading dock (north wall) of Bldg 349. This surface will be abated followed by painting to include the concrete wall from the metal/wood edge down to the ground surface.

1100 – Michael and Darin assess buildings and surroundings at DU 2.

1200- Lunch

1230-1715 – NWDE continues with shadecloth deployment between Bldgs. 357 and 353. And along the south wall of Bldg 353.

1230 -Michael and Darin work to collect a sample of the borrow area. Darin will hand deliver sample to the analytical lab (Test America) in Honolulu on 10/20.

1400 – Iniki continues abatement of metal/wood edge of the loading dock (north wall) of Bldg 349. Iniki is abating overhang of second story east wall (with roof access) and north wall of Bldg. 363.

~1430 – US FWS PM noted paint flakes were blown outside of the containment area along the north wall of Bldg 363. The building is ~3 stories high in part and winds at the time were medium with some higher gusts. Iniki stopped abatement and began vacuuming up the paint chips in and outside the containment area. It appeared as if the paint chips were contained on the shadecloth by the line of shadebags.

~1500 – US FWS PM noted that some scraps of wood and paint chips from the abatement process along the north wall of Bldg 349 (exposed metal/wood edge of the loading dock) were in the road. Iniki intitiates cleanup of the wood / paint chips.

~1600 – NWDE notices a portion of the shadecloth along the south wall of Bldg 349 needs anchors (nails). Will address in the morning of 10/20.

1730 – End of Day. Approximately 2 manhours spent inspecting Petrel burrows. 0 total birds were encountered / removed today. Approximately 17,930 sq ft of shadecloth was deployed today.

Cumulative Manhours for Petrel Inspections: 61

Photographs:

Photo 01 – Iniki abatement of second story overhang (roof access) on west wall Bldg 363

Photo 02 – NWDE filling sandbags

Photo 03: NWDE filling sandbags

Photo 04: NWDE trenching in advance of shadecloth deployment along south wall Bldg.353 (Photo was taken on 10/18/11)

Site Map

See following page for shadecloth deployment.

.

PETERS AVENUE

MORRELL AVENUE

MORRELL STREET

MAYDAY STREET

3521

381

5393
NO. 13

S3126

3501

S3127

347

2409

S2123

151

393

342

349

356

9135

353

357

363

S509

S511

S314

354

309

S311

148

S361

S137

Shadecloth
deployed today

DECISION UNIT #6

Shadecloth previously deployed

Shadecloth deploy on this day

N

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Thursday, October 20, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Medium winds and clear to partly cloudy, Temps ~70s

Personnel:

Name	Company	Hours
Darin Leibelt	NWDE PM	4
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	8
Dave Hard	NWDE Laborer	8
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Michael Schott	NWDE SSHO / QC	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Antonio Perry III	Globetech Industrial Hygenist	4

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	JLG	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift		Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
Sandbags	1400	
Spikes (nails)	6 box	
Washers	1000	
Rain Gear		

Description of Work:

0700-0715:NWDE has a Tailgate safety briefing and resumes shadecloth deployment tasks.

0945- A QC inspection of the area of shadecloth previously put down along the south wall of Bldg 349 determined that a portion of the shadecloth area needed to be anchored with spikes. NWDE starts with this task and installs shadeclath at the extreme north west corner of Bldg 349 (area was previously inaccessible due to the presence of Iniki's activities in the area).

Iniki is painting the metal / wood edge of the loading dock and the concrete below to the ground surface on Bldg 349 and continuing abtment activities on Bldg 363.

~1030 – Plane arrives with Mike Saiki and Dave Hard, NWDE, and more supplies for NWDE. Mike and Dave received the Cugach orientation; lunch followed by US FWS orientation prior to starting work.

1030 – Iniki is rinsing (final) the east wall of Bldg 363 in preparation for painting.

1050 – Iniki took the JLG lift (rental) out of service due to the fact that it had a hydraulic oil leak. The lift was returned to the Transportation shop for servicing. De-minimus amounts of hydraulic fluid spots were evident on the gravel road.

Iniki continues abatement on the west wall, first floor overhang and wall. Iniki initiates painting (priming) the second story eaves on the west wall (excludes the fiberglass panels).

~1100 – US FWSPM, Gary and Michael walk inside Bldg 357 to observe the condition of the structural columns and beams supporting the roof. The condition of the columns and beams is not conducive to allowing workers on the roof (for abatement / painting tasks). Iniki will get as much of the building as they can this year from the Manlifts, but no worker will access the roof.

~1115 – US FWS PM expresses concern that the east wall of Bldg 363 is still "chalky" to the touch and is concerned about paint adherence. Gary asked the crew to slow down and work each surface in a systematic manner.

~1115 – US FWS PM indicates that (non-impacted) general garbage could be taken to the dump on a weekly basis. Recyclables must be pulled out and general garbage to be disposed must be properly bagged prior to disposal.

1150 - US FWS PM requested the gutter on the first story west wall of Bldg 363 be taken down as a large portion of it is sagging down. Iniki removes the gutter and sets it aside.

NWDE is continuing with shadecloth installation along the west and north walls of Bldg.353.

1200 – 1230 - Lunch

1410 – Iniki continues abatement on the north wall of Bldg. 363. Currently, vacuuming up paint chips off of shadecloth and plastic sheeting (light wind).

Iniki initiates painting (priming) the second story, south wall Bldg 363.

1445 – Iniki initiates painting (priming) the second story, east wall of Bldg 363.

1515 – Dave Hard and Mike Saiki, NWDE, onsite to start work following orientation. NWDE making sandbags and finishing up shadecloth deployment along north wall of Bldg.353.

~1600 – NWDE begins shadecloth deployment along south wall of Bldg 393.

1615 – Iniki continues with painting (priming) east wall, second story of Bldg 363.

Iniki begins cleaning up (vacuuming up) paint chips from along side north and east walls of Bldg 363.

~1700 – US FWS PM expressed concerned that NWDE had supplies brought out by the plane. Per contract this is not allowed (will discuss during next week's Monday conference call).

~1715 – Gary reports he found a bird (Petrel) trapped alive underneath the shadecloth between Bldgs 357 and 363. Gary cut the shadecloth and released the bird. The cut in the shadecloth was re-sealed with duck tape. Need to walk all areas periodically to look for trapped birds.

1730 – End of Day. Approximately 3 manhours spent inspecting Petrel burrows. 0 total birds were encountered / removed today. Approximately 14,500 sq ft of shadecloth was deployed today.

Cumulative Manhours for Petrel Inspections: 64

Photographs:

Photo 01 – North wall Bldg 349 completed.

Photo 02 – Abatement of West Wall Bldg 363.

Photo 03: Painting (priming) south wall Bldg 363.

Photo 04: Painting (priming) east wall (second story) Bldg 363

Photo 5: Sagging gutter on west wall (1st story) of Bldg 363

Photo 6: West wall of Bldg 363 after the gutter had been removed.

Site Map

See following page for shadecloth deployment.

.

PETERS AVENUE

MORRELL AVENUE

MAYDAY STREET

3521

381

5393
NO. 13

S3126

3501

S3127

347

S2123

2409

151

393

342

349

356

9135

353

357

363

S509

S511

S314

354

309

S311

148

S361

S137

DECISION UNIT #6

Shadecloth previously deployed

Shadecloth deploy on this day

N

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Friday, October 21, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Medium winds and clear to partly cloudy, Temps ~70s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift		Iniki (rental)
Skid Steer	Bobcat	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	42 gallons	Purchased from Chugach

Description of Work:

0700-0715:NWDE holds a Tailgate safety briefing and preps to resume shadecloth deployment tasks on west wall of Bldg 393.

0715 – Gary and Jeremy, Iniki, walk all areas with shadecloth installed to check for birds trapped under the shadecloth. 4 were found and cut out. The Shadecloth penetration was re-sealed with Duck Tape. Need to check all areas every morning.

0730 – NWDE starts inspecting Petrel burrows for birds along the west wall of Bldg 393. NWDE continues filling sandbags.

Iniki continues with abatement of the first floor overhang, north wall Bldg 363. Iniki is painting (priming) the third floor on the east side of Bldg 363. Iniki is painting (priming) first floor wall and overhang on west side Bldg 363.

Per Iniki, US FWS PM indicated that Iniki could apply poly (plastic) sheeting to the inside of the windows of Bldg 363 and spray prime / paint from the outside. Poly (plastic) sheeting can be left in place upon completion of priming / painting.

1100 – NWDE continues with inspecting Petrel burrows for birds along west wall of Bldg 393.

Iniki is painting the second and third story, north wall of Bldg 363 (light wind). Iniki continues with painting the east wall of Bldg 363.

~1115 – US FWS PM requests that fiberglass panels be painted as well (previously determined that the fiberglass panels were to be left unpainted).

US FWS PM requests that the trim on Bldg 363 be painted green and concrete foundation walls (from ground surface to approximately 4 foot above grade be painted grey. US FWS PM will try to find grey paint to use.

~1115 – US FWS PM asked Michael to remind the crews to go through the proper chain of command when advise/care is needed from the on-island Physician's Assistant.

1200 – Lunch.

1230 – Michael reviews Health and Safety Plan with Mike S. and Dave H., NWDE.

1545 – NWDE completes inspection of the Petrel burrows for the day. 7 Shearwater birds were located in the area. Today is the first day Shearwaters have been encountered during shadecloth deployment tasks. Shearwater burrows are deeper (down to 3-4 feet bgs). When a Shearwater is removed from it's burrow it must be placed in a cage temporarily and left in the cage on top of the shadecloth where it's burrow was located to allow the parent birds to locate it and continue feeding / caring for it. Temporary

cages were obtained from US FWS Refuge personnel. US FWS Refuge personnel later provided wooded tents to place the Shearwater chicks in.

Chugach cut the tall grass in the area cleared of Petrel / Shearwater burrows.

NWDE used the excavator to smooth over the area cleared of birds and compact the area slightly by tracking the excavator back and forth to smooth the area out in advance of shadecloth being installed.

Temporay shadecloth was rolled out over the area and secured only with sandbags. US FWS PM wanted NWDE to be sure the 80% shadecloth was being used in this area with hopes that the 80% shadecloth would prevent the establish grass from penetrating the perforations of the shadecloth. The shade cloth was not fully anchored down until it can be determined which “color code” is the 80% shadecloth.

1605 – Iniki is applying Maectite to the block wall associated with Bldg 363 (an extension of Bldg 363?)

~1630 – US FWS PM requests a metal pipe rack behind the block wall associated with Bldg 363 be removed entirely. Iniki needs access to the backside of the block wall and along the extreme northwest corner of Bldg 363 for abatement / painting purposes. NWDE will see if it has the necessary tools and can come up with a plan to remove the pipe rack.

1730 – End of Day. Approximately 32 manhours spent inspecting Petrel burrows. 3 Petrels and 7 Shearwater were encountered / removed today. No sq ft of shadecloth was deployed today.

Cumulative Manhours for Petrel / Shearwater Inspections: 96

Photographs:

Photo 01 – NWDE inspecting Petrel / Shearwater burrows along west wall of Bldg 393.

Photo 02 – Abatement of North Wall Bldg 363.

Photo 03: Painting (priming) tower and east wall Bldg 363.

Photo 04: Painting (priming) west wall Bldg 363

,

Photo 5: Painting (priming) east wall (1st story) of Bldg 363

Site Map

No shadecloth deployed today.

.

PETERS AVENUE

2409

3521

381

5393
NO. 13

S3126

3501

S3127

S2123

MORRELL AVENUE

347

342

349

356

151

393

9135

MAYDAY STREET

353

357

363

S509

S511

S314

354

148

309

S311

S361

S137

N

DECISION UNIT #6

Shadecloth previously deployed

Shadecloth deploy on this day

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Saturday, October 22, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light winds and clear to partly cloudy, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift		Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715:NWDE holds a Tailgate safety briefing and preps to resume shadecloth deployment tasks on west wall of Bldg 393.

0730 – Gary and Jeremy, Iniki, check all areas with shadecloth previously deployed for trapped birds (Petrels) underneath the shade cloth. None were found.

0800 – Iniki is cutting out a small portion of the pipe rack behind the block wall associated with Bldg 363 to allow man access for abatement / painting. Iniki reports 1 man for 2 hours was spent cutting the pipe rack to allow for access and cleanup.

Iniki continues painting trim on Bldg 363.

Iniki applies Maectite to block wall (front and back) and associated out building.

Iniki receives paint (grey, about 20 gallons) from US FWS PM for top coat for the foundation wall, north side Bldg 363.

NWDE resumes checking for Petrel / Shearwater burrows along the west wall of Bldg 393.

0930 – NWDE reports cutting a phone line while excavating the trench along the west wall (50' offset) of Bldg 393. The trench will secure the shadecloth. NWDE reported the cut line to the US FWS PM. A Chugach employee determined the line to be previously abandoned (a relict).

1145 – Iniki continues painting the trim (green) on the north wall and tower, east wall and south wall of Bldg 363.

NWDE is deploying shadecloth along the west and north walls of Bldg 393.

1200 - Lunch

~1400 – NWDE completes shadecloth deployment along the north wall of Bldg 393.

1500 – NWDE completes shadecloth deployment along the north wall and southeast corner of Bldg 342.

Iniki continues painting the trim (green) along the east and west walls of Bldg 363. Iniki is painting (priming) the block wall and associated out-building (associated with Bldg 363).

1530 – NWDE begins inspecting Petrel / Shearwater burrows for birds along the east wall of Bldg 356.

1630 – NWDE temporarily covers the area cleared of Petrels / Shearwaters with shadecloth and secures with sandbags.

US FWS PM provided notes on required edits / changes to the Remedial Action Work Plan to Michael.

1700 – End of Day. Approximately 8 manhours spent inspecting Petrel burrows. 5 Petrels and 6 Shearwater were encountered / removed today. 17,170 sq ft of shadecloth was deployed today.

Cumulative Manhours for Petrel / Shearwater Inspections: 104

Photographs:

Photo 01 – Block wall associated with Bldg 393. Note pipe rack behind the block wall.

Photo 02 – Iniki cut a portion of the pipe rack out to allow for man access for abatement / painting purposes.

Photo 03: NWDE trenching along west wall of Bldg 393. Note cut phone line in the foreground.

Photo 04: A Shearwater chick removed from its burrow along the west wall Bldg 363

Photo 5: Iniki painting trim (green) east wall of Bldg 363

Photo 6: Iniki painting trim (green) south wall of Bldg 363.

Photo 7: Foundation wall (concrete) is painted grey, north wall Bldg 363.

Photo 8: Painting (priming) block wall associated with Bldg 363.

Site Map

See attached map for the amount / locations of shadecloth deployed today.

.

PETERS AVENUE

MORRELL AVENUE

MAYDAY STREET

3521

381

5393
NO. 13

S3126

3501

S3127

347

S2123

2409

393

342

349

356

151

9135

353

357

363

S509

S511

S314

309

S311

354

148

S361

S137

N

DECISION UNIT #6

Shadecloth previously deployed

Shadecloth deploy on this day

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Monday, October 24, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Medium to light winds and clear to partly cloudy, Temps ~70's - 80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift		Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715:NWDE / Iniki holds a group Logistics Meeting. Discuss the "thank you" letter from Darlene and the proper procedure when going to see the on-island P.A. for minor concerns. US FWS PM adds that most beaches are closed for swimming and pedestrian / bike / cart access. Please stay off closed beaches.

0715 – NWDE holds a Tailgate H&S meeting with crew prior to resuming shadecoth deployment activities.

0730 – Michael inspects a portion of the area where shadecloth was previously deployed to look for birds trapped underneath the shadecloth. No birds were found.

0900- NWDE is inspecting Petrel / Shearwater burrows in advance of shadecloth deployment along the east side of Bldg 356. NWDE continues filling sandbags.

Iniki is painting the block wall (front and back and the out building associated with Bldg 363. Iniki continues painting the trim on the south wall green.

Iniki is laying down poly (plastic) sheeting in advance of abatement activities surrounding Bldg 357.

1000 – Weekly Conference call with NWDE, Iniki, Geosyntec, and US FWS PM.

1100 – NWDE completes inspecting Petrel / Shearwater burrows in advance of shadecloth deployment along the east side of Bldg 356 and begins shadecloth deployment.

1130 – Iniki continues painting the large doors on the north side of Bldg 363 and putting down poly (plastic) sheeting around Bldg 357.

1200 – Lunch.

1230 – NWDE continues with shadecloth deployment along the east side of Bldg 356.

1330 – NWDE is deploying shadecloth along the south wall of Bldg 356.

Iniki continues with painting the large doors on the north side of Bldg 356 and removing poly (plastic) sheeting surrounding Bldg 356 and cleaning up.

Iniki cut out some large branches along the north and east side of Bldg 357 to allow access for abatement / painting. Limbs were removed to the on-islands stockpile of "slash".

1430 – NWDE picks up excess sandbags surrounding Bldg 356 for use at DU1.

Iniki continues to finish up with Bldg 363 and prepare for abatement activities at Bldg 357.

1600 – NWDE moves to DU 1 and begins inspecting for birds in Petrel burrows along the east side of Bld 643.

1730 – End of Day. Approximately 20 manhours spent inspecting Petrel burrows. 8 Petrels were encountered / removed today. 14,200 sq ft of shadecloth was deployed today.

Cumulative Manhours for Petrel / Shearwater Inspections: 124

Photographs:

Photo 01 – Iniki applying final coat (grey) to doors on north side, Bldg 363.

Photo 02 – Iniki painting front and back side of block wall and out building associated with Bldg 363..

Photo 03: Iniki painting out building associated with Bldg 363.

Photo 04: Iniki laying down poly (plastic) along north side Bldg 357 in advance of abatement activities.

Photo 5: Iniki laying down plastic in advance of abatement activities along west wall Bldg 357.

Photo 6: NWDE deploying shadecloth along the south wall Bldg 356..

Photo 7: Shadecloth deployed along east wall of Bldg 356..

Site Map

See attached map for the amount / locations of shadecloth deployed today.

.

PETERS AVENUE

MORRELL AVENUE

MAYDAY STREET

2409

381

3521

5393
NO. 13

S3126

3501

S3127

S2123

347

342

349

356

393

9135

353

357

363

S509

S511

S314

309

S311

354

148

151

S361

S137

N

DECISION UNIT #6

Shadecloth previously deployed

Shadecloth deploy on this day

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
8

OCTOBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Tuesday, October 25, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light winds and clear to partly cloudy, Temps ~70s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift		Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715:NWDE has a Tailgate H&S meeting and preps for shadecloth deployment around Bldg 643.

0730 – NWDE resume inspecting for birds surrounding Bldg 643.

Iniki continues painting large doors on North side Bldg 363. Hinges were scrapped clean to the bare metal and re-painted.

Iniki starts abatement on north wall, Bldg 357.

1050 – Iniki is painting large doors on south wall and continues painting large doors on north wall of Bldg 363. Iniki is using caulk to seal exterior concrete of the foundation walls and along the block wall and associated outbuilding.

Iniki begins abatement on the north wall of Bldg 357. Per Iniki, Maectite was applied on 10/24 over all surfaces to be abated.

1100 - Michael performs a QC inspection of areas with shadecloth previously deployed to check for birds trapped underneath the cloth. No birds were found.

1130 – NWDE puts down shadecloth temporarily along the east wall of Bldg 643. NWDE is cleaning off the driveway entrance to DU1 buildings.

1430 – Iniki continues abatement of north and east walls, Bldg 357.

Iniki continues with using caulk and touch-up painting all around Bldg 363.

1645 – NWDE stops inspecting bird burrows for birds to allow time to temporarily deploy shadecloth over the area cleared of birds.

1715 – Iniki is cleaning / sweeping up paint chips along the areas abated (Bldg 357).

1730 – End of Day. Approximately 45 man-hours spent inspecting Petrel burrows. 11 Petrels were encountered / removed today. No sq ft of shadecloth was deployed today.

First Aid Incident: An NWDE personnel (Vuyani Ntantiso) reported @ 1545 that he had cut the top of his left thumb (near the fingernail) on something while inspecting bird burrows for Petrels / Shearwaters. Vuyani was able to administer First Aid to himself from the on-site First Aid kit and did not think it required notification or attention of the on-island P.A. Vuyani applied Bactine (cleaning spray) and a band aid to the cut.

Cumulative Man-hours for Petrel / Shearwater Inspections: 169

Photographs:

Photo 01 – Iniki is painting large doors (grey) on south wall, Bldg 363.

Photo 02 – Iniki is sealing / using caulk on cracks in foundation wall, Bldg 363.

Photo 03: Iniki initiating abatement along north wall Bldg 357.

Photo 04: Iniki temporarily lays shadecloth along the east wall of Bldg 643.

Photo 5: NWDE is removing brush between Bldgs 643 and 623.

Photo 6: NWDE lays shaedecloth temporarily along east and south wall of Bldg 643..

Site Map:

No site map is included as no shadecloth was deployed today.

Daily Field Report

Date: Wednesday, October 26, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light winds and clear to partly cloudy, Temps ~70s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Brian Carns	NWDE Laborer	6.5
Dane Borero	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715:NWDE has a Tailgate H&S meeting and preps for shadecloth deployment around Bldg 643.

0730 – NWDE resume inspecting for birds surrounding Bldg 628.

Michael performs a QC Inspection of areas with shadecloth previously deployed. No birds were found underneath the shadecloth.

0840 – Iniki continues with touch up painting surrounding Bldg 363 including the large doors on north wall.

Iniki continues with abatement on the east wall of Bldg 357.

0945 – NWDE continues with inspecting for birds suroounding Bdlg 628.

1000 – NWDE and Iniki hold an intercal conference call.

1100 – US FWS PM and Michael call Darin Leibelt, NWDE, to discuss schedule and the Project Scope for the next 2 to 3 weeks. Iniki is expected to complete Bldg 357 and NWDE is expected to complete laying shadecloth in DU 1 and DU2 prior to departure.

1200 – Lunch.

1230 – NWDE resumes inspecting for birds suroounding Bdlg 628.

1400 – Brian Carns, NWDE, off work to prepare to return home tomorrow.

Chugach marked water lines north of Bldgs 628 and 619.

1620 – Iniki is cleaning up paint chips from abatement of west wall, Bldg 357.

Iniki continues touch up painting surrounding Bldg 363.

NWDE places shadecloth down temporarily on the south east and west wall of Bldg 628.

1730 – End of Day. Approximately 42 man-hours spent inspecting Petrel burrows. 13 Petrels were encountered / removed today. No sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 211

Photographs:

Photo 01 – Iniki is abating on east wall (second story), Bldg 363.

Photo 02 – Iniki is abating on west wall, Bldg 357.

Photo 03: Iniki is abating the east wall second story, Bldg 357.

Photo 04: Iniki is abating the north wall of Bldg 357.

Photo 5: NWDE is inspecting bird burrows surrounding Bldg 628.

Photo 6: NWDE lays shadecloth temporarily along west and south wall of Bldg 628.

Site Map:

No site map is included as no shadecloth was deployed today.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, October 27, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light winds and clear to partly cloudy, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
Sandbags	1000	
Spikes (nails)	4 boxes	

Description of Work:

3 fly off island today at ~ 1100.

0700-0715: NWDE has a Tailgate H&S meeting and preps for shadecloth deployment around Bldg 628.

0730 – NWDE is anchoring shadecloth previously laid down temporarily. NWDE is removing brush along the north wall of Bldg 628.

Michael makes field sketches of Electrical and Water lines north of Bldg 628 and 619 and south of Bldg 623.

Iniki reports Bldg 363 is complete.

0930 – Iniki continues with abatement along the north wall of Bldg 357. Iniki reports abatement is still required on the west wall, second story. Iniki reports the first story east, south and west walls have been rinsed this morning and they will start painting (priming) after lunch.

1030 – Michael performs a QC inspection of areas where shadecloth was previously deployed for birds trapped underneath the shadecloth. 2 birds were found and removed.

1200 – Lunch.

1345 – US FWS PM and Michael look at the Outfall that is thought to drain the R-2 unit. US FWS PM and Michael meet and go with a Water Plant personnel (Chugach) to the R-2 unit to understand how the drainage system works. The Water Plant personnel (Chugach) was able to provide a piping diagram of the R-2 unit.

1445 – Iniki is rinsing the second story, west wall Bldg 357. Iniki is priming the first story surfaces on the east, north and west walls.

NWDE continues with shadecloth deployment activities surrounding Bldgs 643 and 628.

1730 – End of Day. Approximately 16 man-hours spent inspecting Petrel burrows. 4 Petrels were encountered / removed today. 22,800 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 227

Photographs:

Photo 01 – NWDE is inspecting bird burrows north of Bldg 628. Note the orange markings area an electric line.

Photo 02 – Iniki is rinsing the west wall (second story), Bldg 357.

Photo 03: Iniki is abating the north wall, Bldg 357.

Photo 04: NWDE is removing brush along the north wall of Bldg 628.

Photo 5: Iniki is rinsing the west wall (second story), Bldg 357.

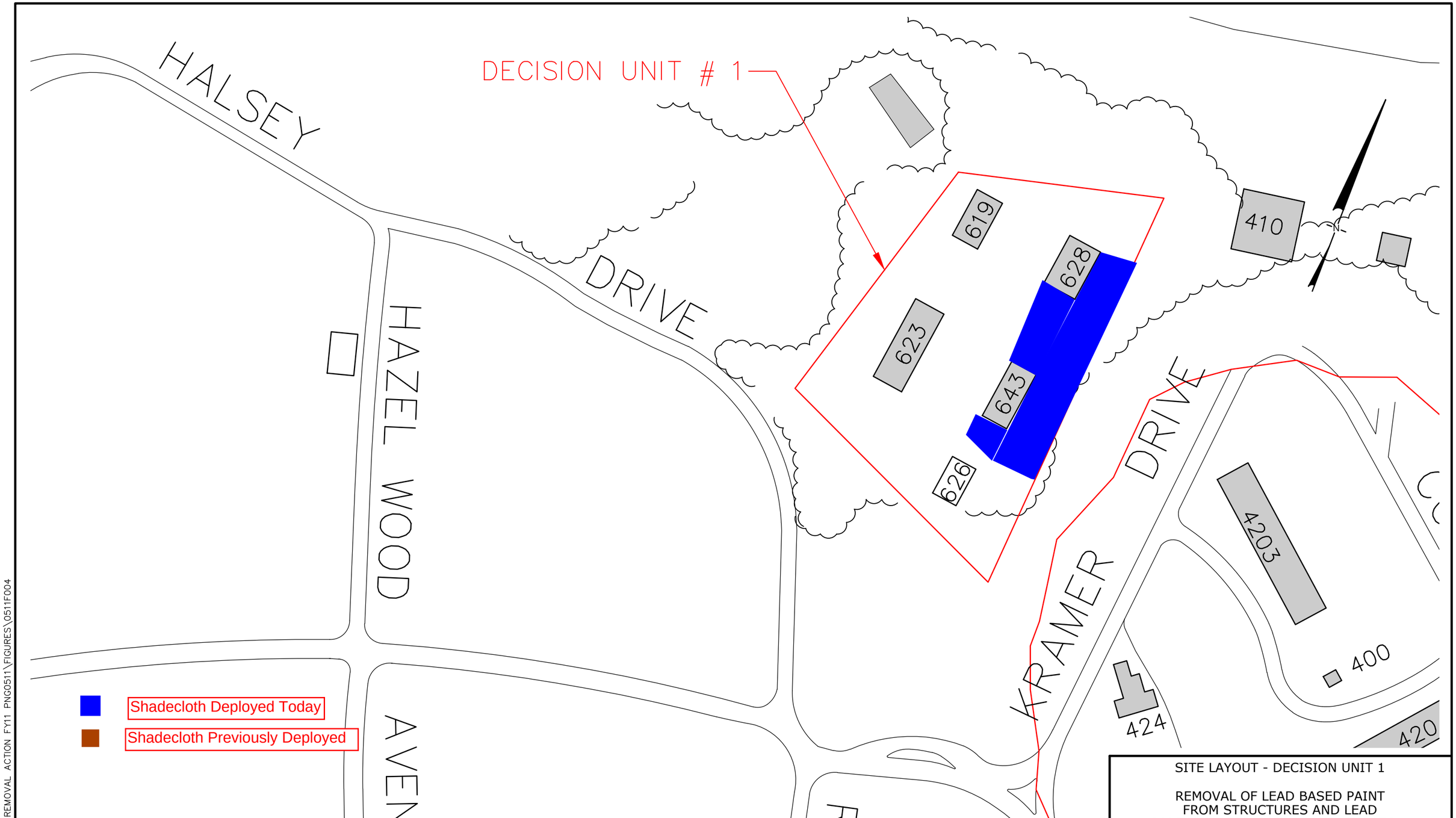
Photo 6: Iniki is painting (priming) the west wall of Bldg 357..

Photo 7: Iniki is painting (priming) the north wall of Bldg 357.

Photo 8: Iniki is painting (priming) the east wall of Bldg 357.

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, October 28, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light winds and clear to partly cloudy, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
Gasoline	1 gallon	Purchased from Chugach for Chain Saw

Description of Work:

0700-0715: NWDE has a Tailgate H&S meeting and preps for shadecloth deployment around Bldg 628.

0730 – NWDE is inspecting bird burrows along the north wall of Bldg 628. NWDE tries unsuccessfully to field verify the location and depth of the electric lines and water lines north of Bldgs 628 and 619. NWDE is filling sandbags.

0920 – Iniki continues painting (priming) the north and west walls Bldg 357.

0930 – NWDE performs a QC inspection to check for birds trapped underneath the shadecloth previously put down surrounding Bldgs 643 and 628. No birds were found.

1130 – NWDE completes inspecting bird burrows in advance of Shadecloth deployment.

1145 – Lunch.

1730 – End of Day. Approximately 16 man-hours spent inspecting Petrel burrows. 10 Petrels were encountered / removed today. 6,500 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 243

Photographs:

Photo 01 – Iniki is priming the west wall, Bldg 357..

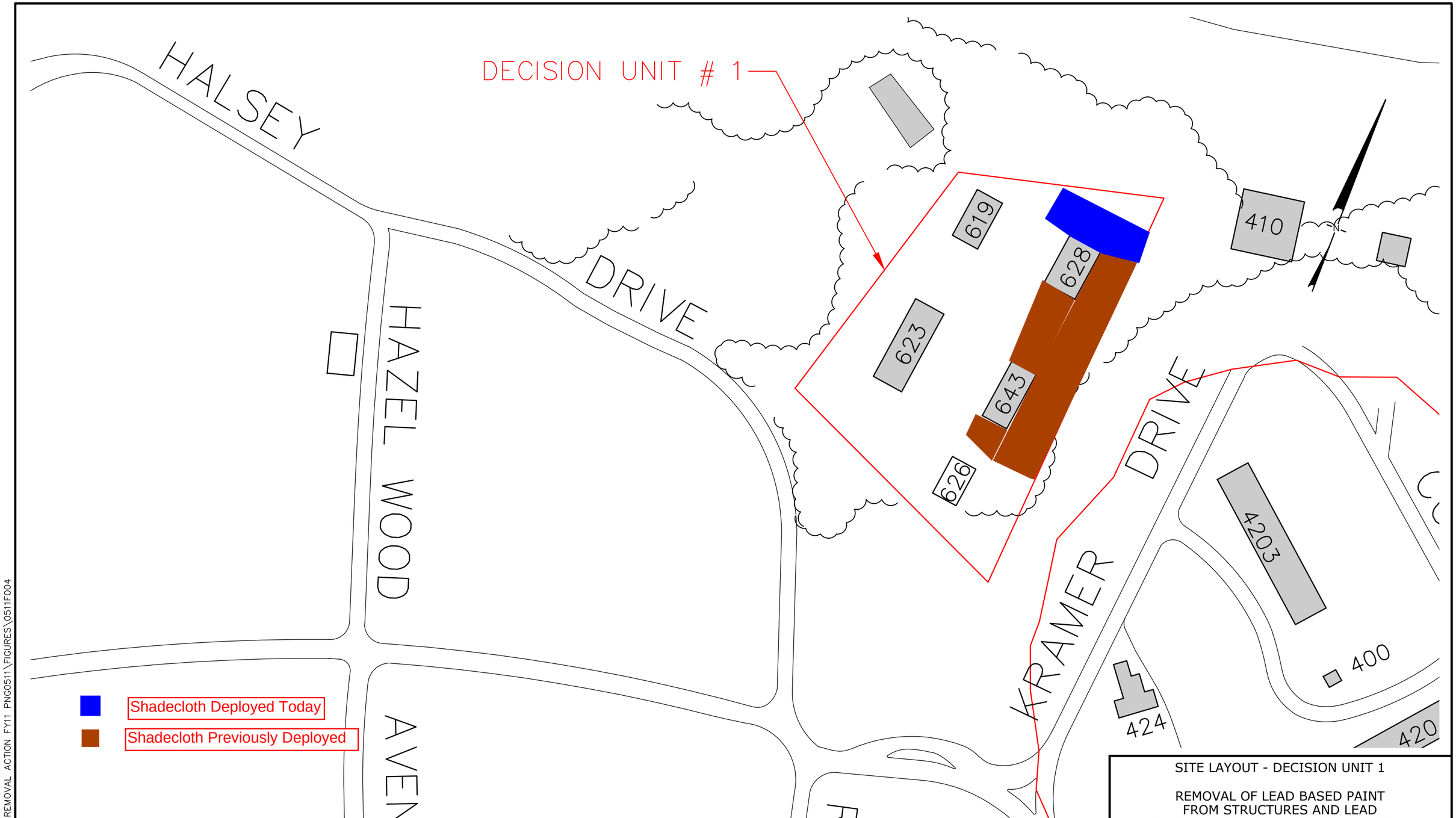
Photo 02 – Iniki is priming the north wall, Bldg 357.

Photo 03: Iniki is cleaning up around Bldg 357.

Photo 04: Primed west wall Bldg 357.

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

Daily Field Report

Date: Saturday, October 29, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Calm, partly cloudy to clear, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	70 gallons	

Description of Work:

0700-0715: NWDE has a Tailgate H&S meeting and preps for shadecloth deployment around Bldg 619.

0830 – Michael performs a QC inspection of shadecloth previously deploed in DU 6 for birds trapped underneath. No birds were found.

0900 – NWDE is trenching (50 ft offset) along the east walls of Bldg 643 and 628 to anchor the previously deployed shadecloth.

US FWS PM requests that items encountered while trenching or inspecting bird burrows (in DU1) be collected and saved for review by others for their historical significance.

0915 – NWDE begins inspecting bird burrows for Petrels / Shearwaters north of Bldg 619.

Iniki is finishing priming the south wall, second story of Bldg 357. Iniki is caulking / sealing the cracks in the foundation walls of Bldg 357. Iniki is waiting for Bldg 357 to dry off (from rain overnight) prior to resuming painting (finish coat).

1130 – NWDE resumes anchoring shadecloth north of Bldgs 628 and 619.

1200 - Lunch

1245 – NWDE resumes inspecting bird burrows in advance of shadecloth deployment. NWDE is removing brush and debris in advance of shadecloth deployment.

1400 – Iniki continues caulking Bldg 357 foundation walls and cleaning up. Iniki is continuing to wait for the building to dry off prior to resume painting.

1545 – NWDE is smoothing out areas in advance of shadecloth deployment and resumes deploying and anchoring shadecloth north and west of Bldg 619.

1730 – End of Day. Approximately 24 man-hours spent inspecting Petrel burrows. 9 Petrels were encountered / removed today. 7,250 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 267

Photographs:

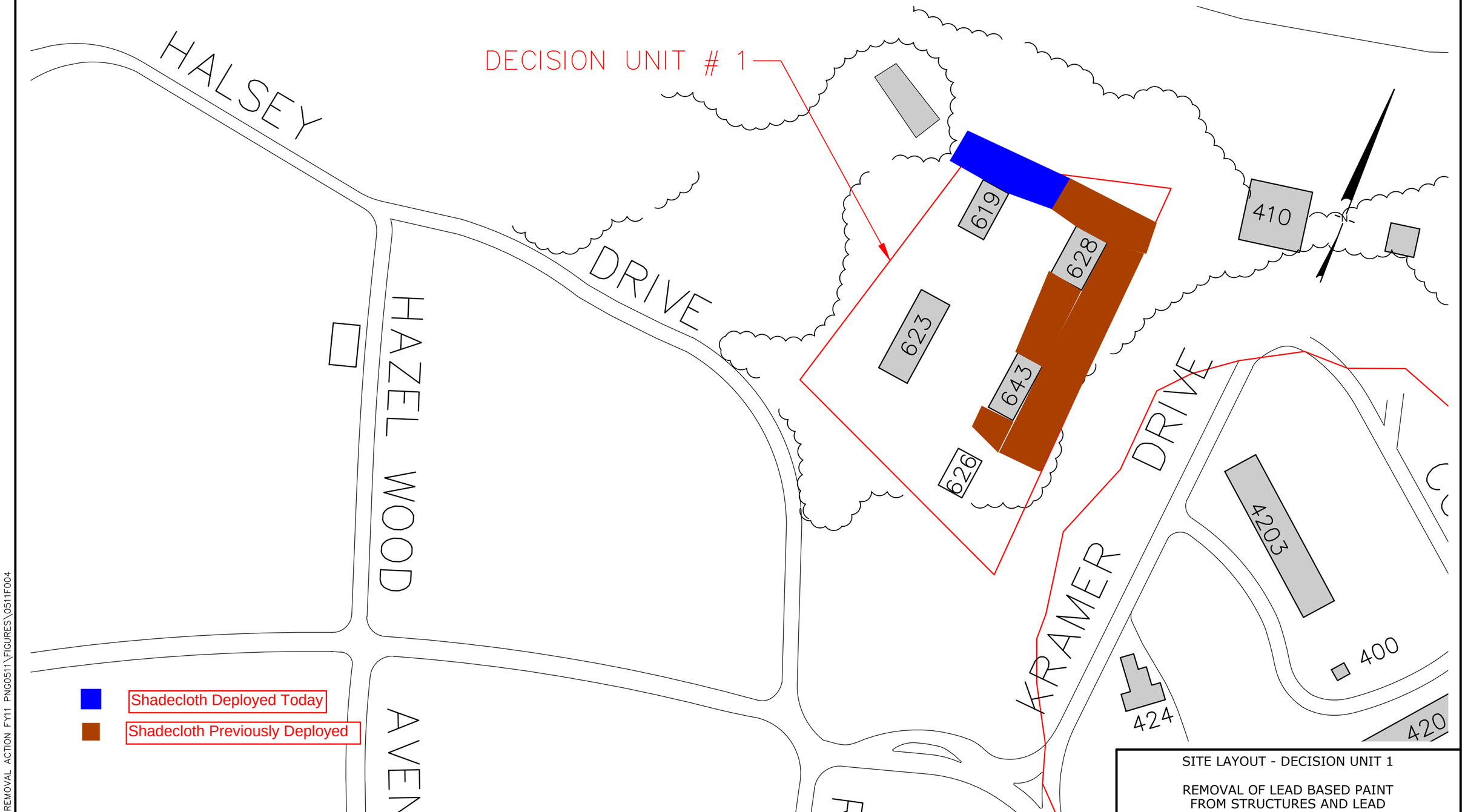
Photo 01 – Iniki is priming the south wall (second story), Bldg 357..

Photo 02 – Iniki is caulking / sealing the foundation wall (north), Bldg 357.

Photo 03: Priming is complete (Bldg 357).

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

Daily Field Report

Date: Monday, October 31, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Ligth to medium winds, partly cloudy to clear, Temps ~70s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	25 gallons	

Description of Work:

0700-0715: Logistics meeting with NWDE, Iniki crews and US FWS PM. Discussed the need to be vigilant on safety and quality as this phase of the project winds down. Discussed the need to save / collect any foreign objects (of potentially historical significance) found during trenching and inspecting bird burrows.

0800 – NWDE is working on filling sandbags. NWDE is working on clearing brush stockpiled on the east and west side of Bldg 619. NWDE is working on anchoring shadecloth and inspecting bird burrows for Petrels / Shearwaters.

0935 – Iniki is working on painting the final coat on the north, east and west walls (first story) Bldg 357.

0950 – NWDE is smoothing over the area west of Bldg 619 in advance of shadecloth deployment and continuing with shadecloth deployment.

1000 – Weekly conference call with US FWS, NWDE, Iniki, and Geosyntec. Meeting Minutes will follow in a separate document.

1200 – Lunch.

1400 – NWDE is continuing to anchor shadecloth in between Bldgs 628 and 619 and west of Bldg 619. NWDE is continuing with filling sandbags.

1420 – NWDE resumes inspecting bird burrows for Petrels and Shearwaters.

1630 – Iniki continues painting the finish coat for the walls (north and south) Bldg 357.

1700 – NWDE is anchoring shadecloth south and west of Bldg 619.

1730 – End of Day. Approximately 16 man-hours spent inspecting Petrel / Shearwater burrows. 20 Petrels were encountered / removed today. 15,300 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 283

Photographs:

Photo 01 – NWDE is smoothing areas in advance of shadecloth deployment.

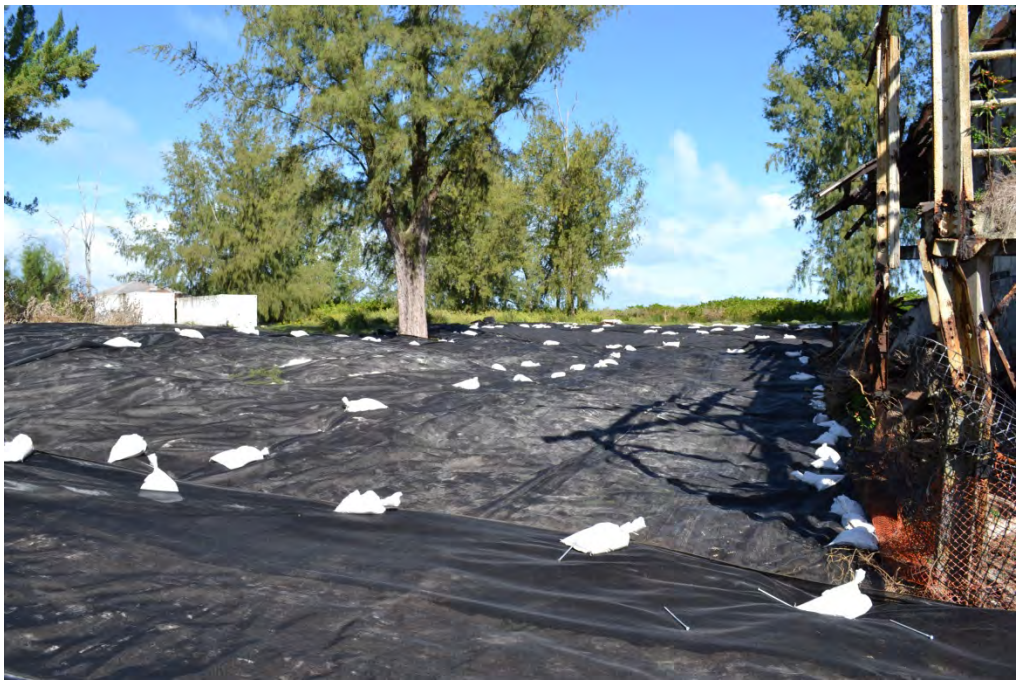
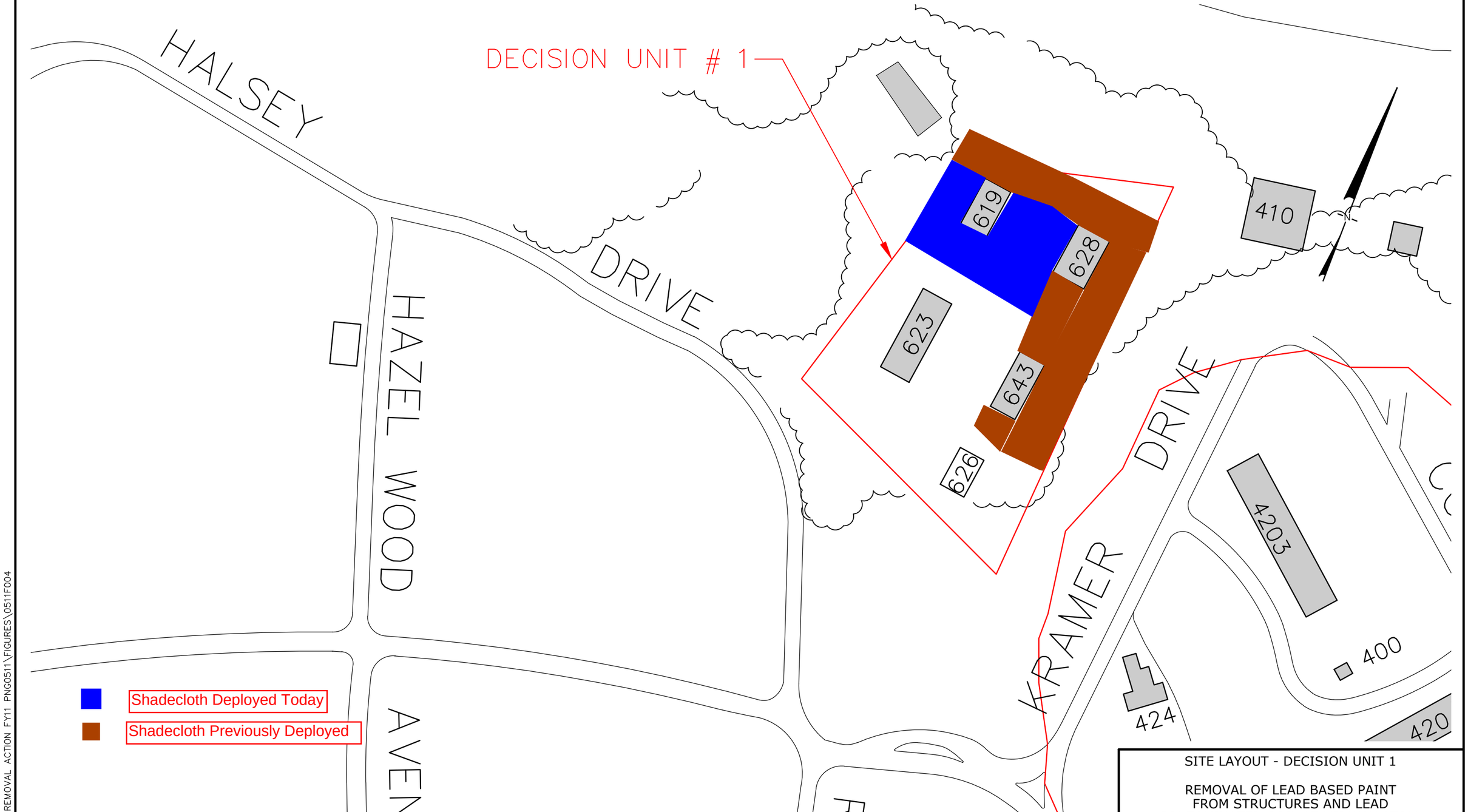


Photo 02 – NWDE is anchoring shadecloth west of Bldg 619.

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, November 1, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Calm, clear with 1 spotty shower in the afternoon, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	27 gallons	

Description of Work:

0700-0715: NWDE holds a Tailgate H&S briefing and preps for the day's activities in DU1.

0730 – NWDE is anchoring shadecloth deployed the day before and begins inspecting bird burrows for Petrels / Shearwaters in advance of shadecloth deployment.

0830 – Michael goes with the 2 Fire-fighters to inspect "CB-6" (Catch Basin # 6) as part of a "ground truthing exercise" of the drainage features of the R-2 unit in advance of the leachate management design.

0900 – Iniki is painting the final coat on the north wall and painting the west wall trim (green), Bldg 357.

0910 – NWDE is continuing with inspecting bird burrows in advance of shadecloth deployment. NWDE is filling sandbags.

1200 – Lunch

1310 – Iniki is painting the large doors (north wall, grey in color) and the trim and sign letters (green), Bldg 357. Iniki is painting the east wall trim (green).

1330 – NWDE is anchoring shadecloth along the north wall of Bldg 623 and in between Bldgs 623 and 643 and picking up excess sandbags.

1530 – NWDE resumes inspecting bird burrows west of Bldg 626.

1730 – End of Day. Approximately 24 man-hours spent inspecting Petrel / Shearwater burrows. 34 Petrels were encountered / removed today. 14,400 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 307

Photographs:

Photo 01 – Iniki is painting the final coat on the north wall of Bldg 357.

Photo 02 – Iniki is painting the trim (green) on the west wall of Bldg 357.

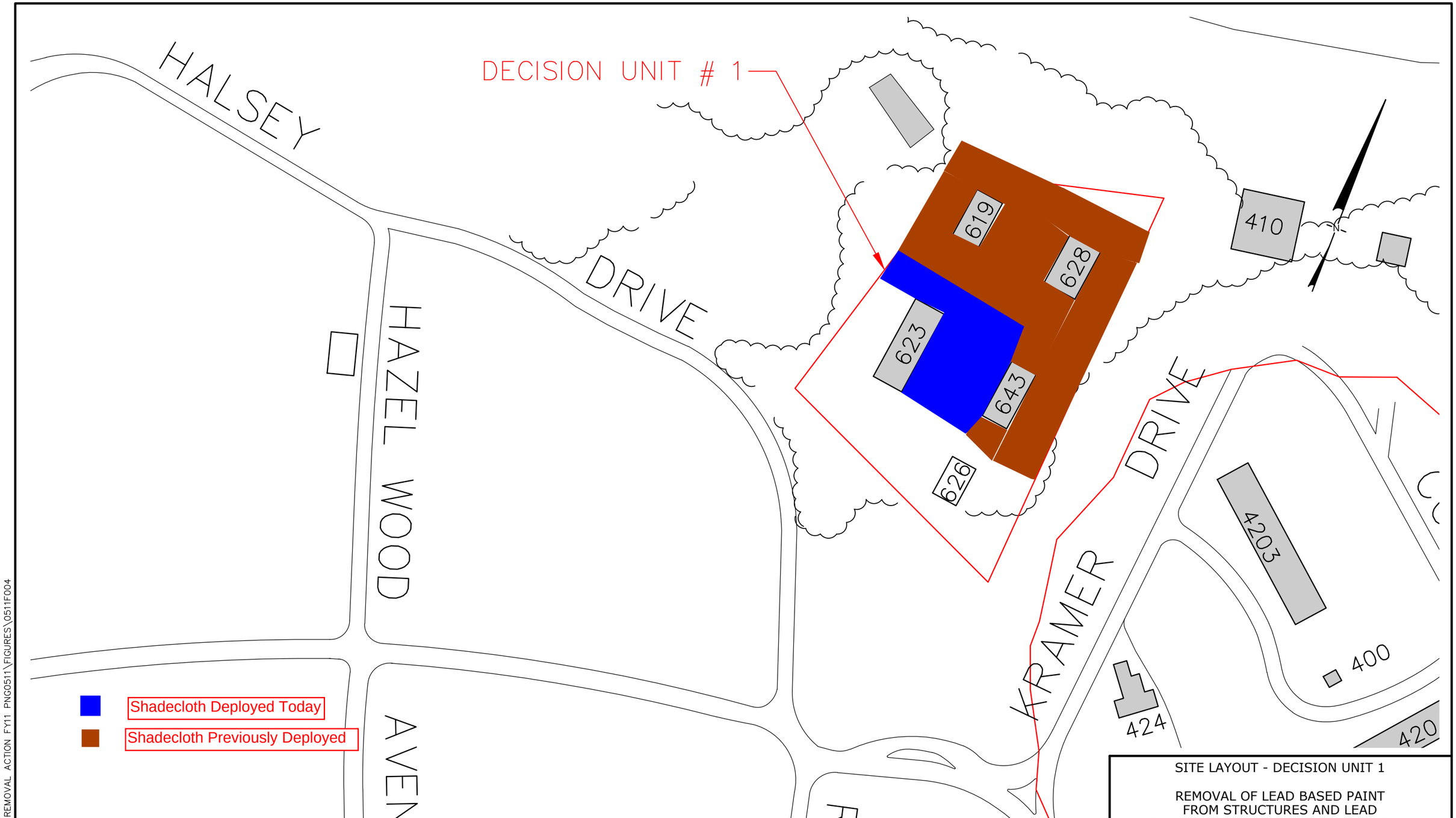
Photo 3: North and West walls in progress (Bldg 357).

Photo 4: NWDE anchoring shadecloth north of BLDG 623.

Photo 5: Smoothed out area immediately east of Bldg 623 in advance of shadecloth deployment.

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, November 2, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Rain in the early morning turning clear by noon ,calm, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None.		

Description of Work:

0700-0715: NWDE holds a Tailgate H&S briefing and preps for the day's activities in DU1.

0730 – NWDE resumes inspecting bird burrows and removing brush from surrounding Bldg 626.

0815 – Iniki crew is waiting for Bldg 357 to dry off prior to resuming painting. Iniki borrows NWDE pickup and removes the stockpile of branches and woody debris from the Bldg 357 work area. The woody debris was placed in a designated area east of Bldg 151.

1100 – NWDE completes inspection of bird burrows surrounding Bldg 626 and initiates smoothing the area in advance of shadecloth deployment.

1115 – Michael performs a QC inspection of the shadecloth previously deployed in DU1. The inspection was for birds trapped underneath the shadecloth. 1 bird was found and released,

1200 – Lunch

1230 – NWDE is deploying shadecloth surrounding Bldg 626. NWDE is inspecting bird burrows south and west of Bldg 623.

1515 – NWDE is trenching along the east, south and west walls (50' offsets) of Bldg 626 to anchor / secure the shadecloth.

1550 – Iniki continues painting the large doors (grey) on the north wall of Bldg 357 and the trim (green) on all sides of the building.

1700 – NWDE is backfilling the trench on the east, south and west walls of Bldg 626.

1730 – End of Day. Approximately 20 man-hours spent inspecting Petrel / Shearwater burrows. 25 Petrels were encountered / removed today. 14,610 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 327

Photographs:

Photo 01 – NWDE is deploying shadecloth along the east and south walls of Bldg 626.

Photo 02 – NWDE is trenching to anchor / secure the shadecloth along the south wall (50' offset) of Bldg 626.

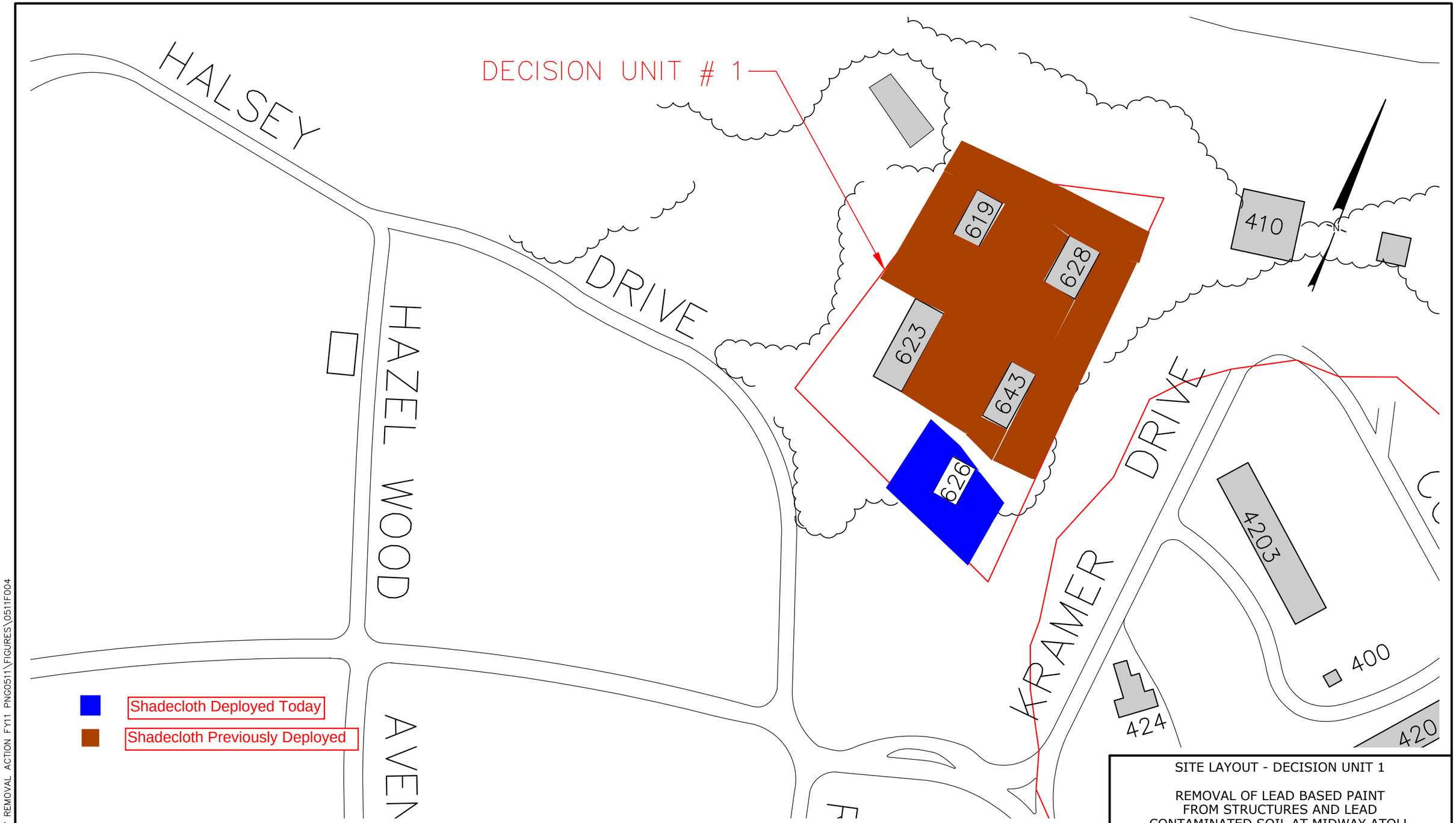
Photo 3: Iniki is painting the large doors on the north wall of Bldg 357.

Photo 4: Iniki is continuing painting the trim on all sides of Bldg 357.

Photo 5: Iniki is continuing to paint the trim on all sides of Bldg 357.

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

Daily Field Report

Date: Thursday, November 3, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Calm to light winds, clear, Temps ~80s, humid

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
Anthony Gubler	US FWS Volunteer
Eamon Harrity	US FWS Volunteer
Dani Zupic	US FWS Volunteer
Patti O'Keefe	Chugach

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
Sandbags	1000	

Description of Work:

0700-0715: NWDE holds a Tailgate H&S briefing and preps for the day's activities in DU1.

0800 - Iniki is touch up painting and beginning to demobilize some equipment and supplies to their Shipping Containers at the "NAF hanger".

NWDE is finishing backfilling the trench on the east south and west sides of Bldg 626. NWDE is continuing to remove brush west of Bldg 623 in advance of inspecting birds burrows and shadecloth deployment. NWDE is picking up excess sandbags from DU6 for use on DU1.

0915 – US FWS PM provided 3 volunteers to assist NWDE in inspecting bird burrows at DU2. The 3 volunteers are long term volunteers with US FWS on island. A Chugach employee volunteered to assist for part of the day, as well. The 4 volunteers are listed in the "Visitors" section of this report. Michael with the 4 volunteers inspected bird burrows on 3 sides of Bldg 579 in advance of shadecloth deployment.

Chugach marked the utilities along the road in front of Bldgs 579 and 578.

1130 – Lunch.

1230 – Michael and 3 of the volunteers resume inspecting bird burrows in advance of shadecloth deployment at Bldg 579.

1530 – 3 volunteers quit for the day.

Michael makes a field sketch of the utilities along the road in front of Bldgs 579 and 578

1600 – NWDE lays out fabric temporarily along the west and north sides of Bldg 579.

1700 – Iniki is finishing touch up painting and continues cleaning up the area.

Approximately 26 man-hours (NWDE directly, does not include Volunteer hours) spent inspecting Petrel / Shearwater burrows today. 15 volunteer man-hours were spent inspecting Petrel / Shearwater burrows, as well. 35 Petrels were encountered / removed today. 8,050 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 353 (not including Volunteer man-hours)

Photographs:

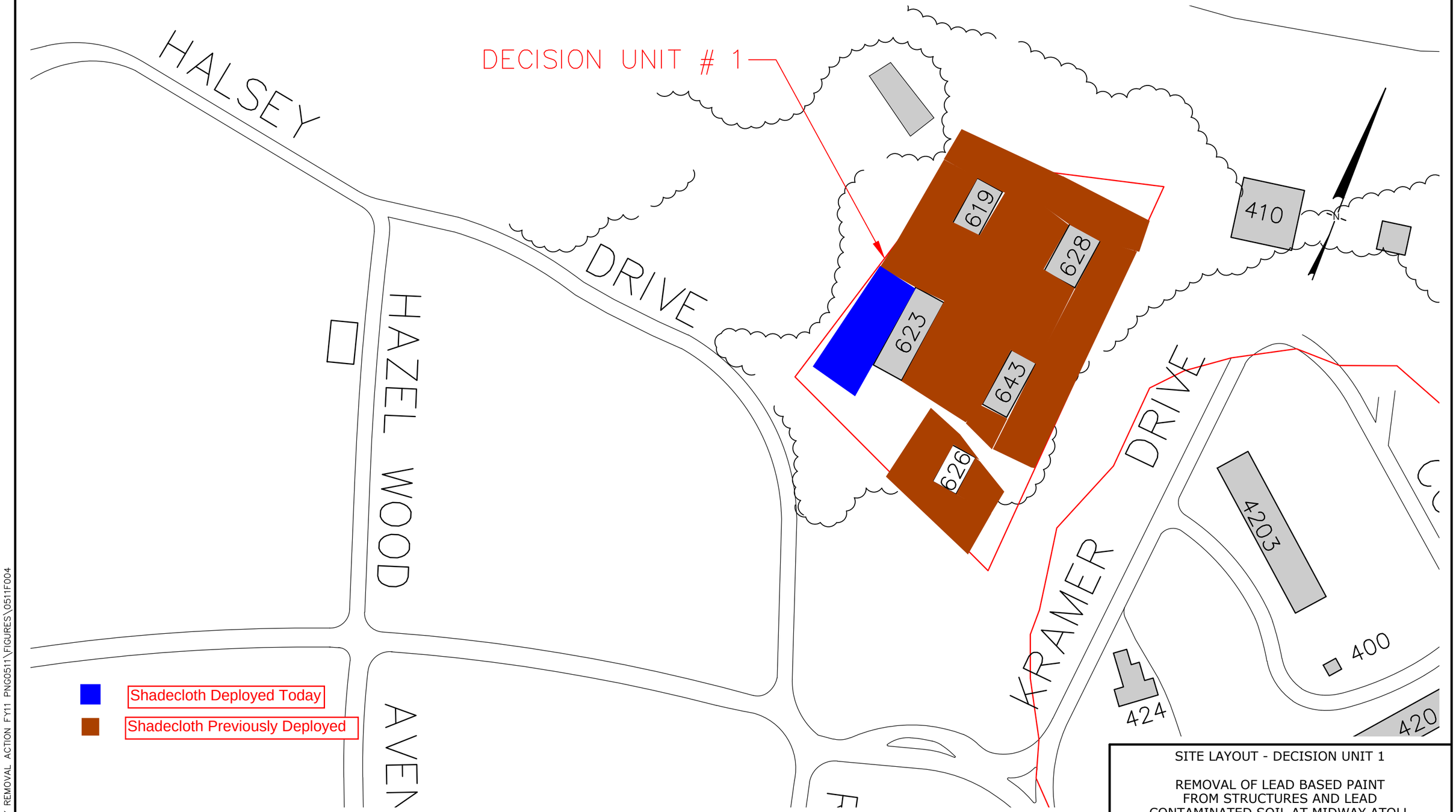
Photo 01 – Deployed shadecloth along the west wall of Bldg 623.

Photo 02 – NWDE is temporarily laying shadecloth along west wall (30' offset) of Bldg 579 (DU2).

Photo 3: NWDEis temporarily laying shadecloth along north wall (30' offset) of Bldg 579 (DU2).

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, November 4, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Calm to light winds, clear, Temps ~80s, humid

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10
Jeremy Kauwe	Iniki Lead Abate Super.	10
Eric Alcosiba	Iniki Lead Abate	10
Noah Wond	Iniki Painter	10
Samuel Awai	Iniki Painter Super	10
Ben Joaquin Jr.	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE
Man Lift	Grove	Iniki (rental)
Skid Steer	Bobcat	Iniki
Man Lift	JLG	Iniki (rental)

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715: NWDE holds a Tailgate H&S briefing and preps for the day's activities in DU2.

0855 – NWDE is inspecting bird burrows in between Bldgs 578 and 579. NWDE is trenching along the west wall (30' offset) of Bldg 579 in advance of shadecloth deployment.

0915 – Chugach Airport Manager shows Michael the remnants of "Sea Bee Lake". Michael inspects the area for the presence of drainage control structures associated with the former "Sea Bee Lake".

1020 – Iniki is cleaning up surrounding Bldg 357 and re-setting sandbags displaced during abatement activities. Iniki continues to demobilize equipment and supplies into their Shipping Containers at the NAF Hanger Bldg.

1200 – Lunch.

1230 – NWDE is filling sandbags and is clearing brush between Bldgs 578 and 579.

1300 – Iniki continues with cleaning up and demobilizing equipment and supplies.

1315 – Michael performs a QC inspection of DU1. The inspection is for birds trapped underneath the previously deployed shadecloth. No birds were found.

1530 – Michael is excorted by Chugach Fire Fighters out to CB5 and CB6 (Catch Basin's 5 & 6) to measure pipe invert elevations.

1700 – NWDE is laying out shadecloth temporarily south of Bldg 579 and in between Bdgs 578 and 579.

1730 – End of Day. Approximately 12 man-hours (NWDE directly, does not include Volunteer hours) spent inspecting Petrel / Shearwater burrows. 12 Petrels were encountered / removed today. 7,400 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 365 (not including Volunteer man-hours)

Photographs:

Photo 01 – Anchoring shadecloth by backfilling the trench along the west wall (30' offset) of Bldg 579.

Photo 02 – NWDE is clearing brush and smoothing over the area in between Bldgs 578 and 579.

Photo 3: Iniki is cleaning up surrounding Bldg 357.

Photo 4: Iniki is cleaning up surrounding Bldg 357.

Site Map:

The attached site map presents the shadecloth that was deployed today.

5394
NO. 3

5126

DECISION UNIT # 2

503

5340

S5247

CABLE ROAD

U5312
NO. 7

U5311
NO. 8

RELL STREET

N

5306
NO. 6

5399

AVENUE

BRANNON

579

578

5349

5350

5301

5307

ON

MADOLE STREET

Shadecloth Deployed Today

Shadecloth Previously Deployed

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 2

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
3

OCTOBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F005.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F005.dwg

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, November 5, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Calm to light winds, clear, Temps ~80s, humid

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

Iniki Crew (6) flies offsite.

0700-0715: NWDE holds a Tailgate H&S briefing and preps for the day's activities in DU2.

0730 – NWDE continues trenching along the south wall (30' offset) of Bldg 579. NWDE continues inspecting bird burrows alnong the north and east walls of Bldg 578.

0800 – Michael performs a QC inspection for birds underneath the shadecloth at DU1. 1 bird was found.

1000 – NWDE continues trenching and resumes deployment of shadecloth. NWDE is filling sandbags.

1200 – Lunch.

1230 – NWDE is deploying shadecloth along the south walls of Bldgs 578 and 579 and in between both buildings.

1700 – NWDE is trenching along the east wall (30'offset) of Bldg 578 and temporaily deploying shadecloth along the east wall and north wall of Bldg 578.

1730 – End of Day. Approximately 10 man-hours spent inspecting Petrel / Shearwater burrows. 12 Petrels were encountered / removed today. 19,100 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 375 (not including Volunteer man-hours)

Photographs:

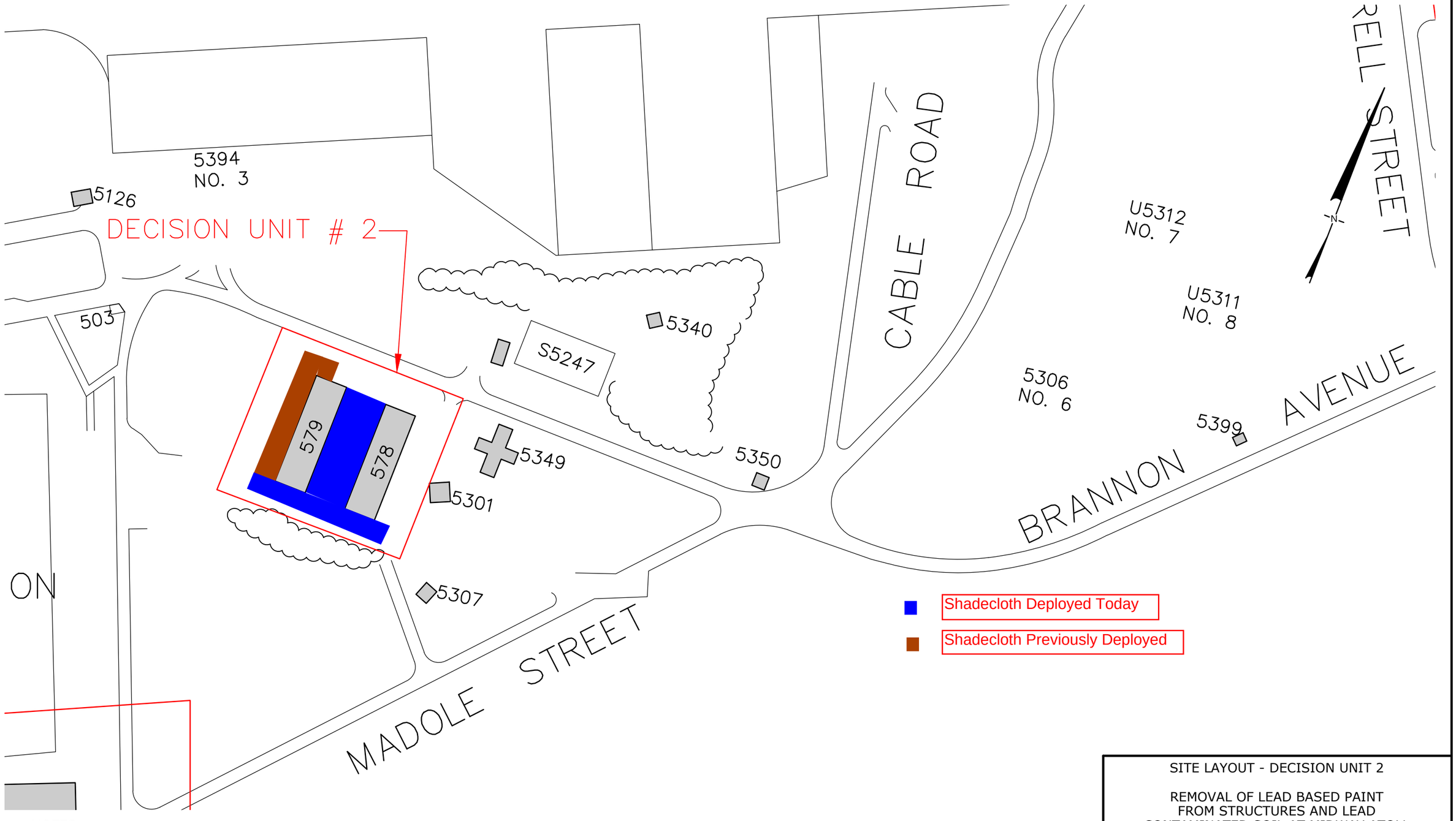
Photo 01 – Shadecloth deployed in between Bldgs 578 and 579.

Photo 02 – Shadecloth deployed along the south walls of Bldgs 578 and 579.

Photo 3: Temporarily deployed shadecloth along the east wall of Bldg 578.

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 2

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
3

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F005.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F005.dwg

Daily Field Report

Date: Monday, November 7, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light to medium rain, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super.	10
Mike Saiki	NWDE Laborer	10
Dave Hard	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Vuyani Ntantiso	NWDE Laborer	10
Dane Borero	NWDE Laborer	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0730: NWDE holds a Logistics Meeting with US FWS PM followed by a Tailgate H&S briefing.

0730 – NWDE resumes trenching and deploying shadcloth along the east and north walls of Bldg 578. NWDE moves the SandBagger machine and some empty pallets from the beach / borrow area to the shipping containers for storage over winter.

0800 – Michael performs a QC inspection at DU1. The inspection was for birds trapped underneath the shadecloth. 1 bird was found and released.

1000 – Weekly Conference Call. Meeting minutes will be supplied was a separate document.

1030 – NWDE completes shadecloth deployment at DU2. NWDE moves back to DU1 to finish with shadecloth deployment.

1120 – NWDE rents Chugach's loader (Cat 950G with 4 in 1 bucket) to move 3 brush piles at DU1.

1200 – Lunch.

1230 – NWDE continues moving the 3 brush piles at DU1. NWDE continues finishing with shadecloth deployment. NWDE puts up orange construction fencing surround the foundation of Bldg 626 to prevent birds from entering the building.

1730 – End of Day. Approximately 0 man-hours spent inspecting Petrel / Shearwater burrows. 13,100 sq ft of shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 375 (not including Volunteer man-hours)

Photographs:

Photo 01 – Shadecloth deployed along north wall Bldg 578.

Photo 02 – Shadecloth deployed along the east wall of Bldg 578.

Photo 3: NWDE placed construction fence surrounding the foundation of Bldg 626.

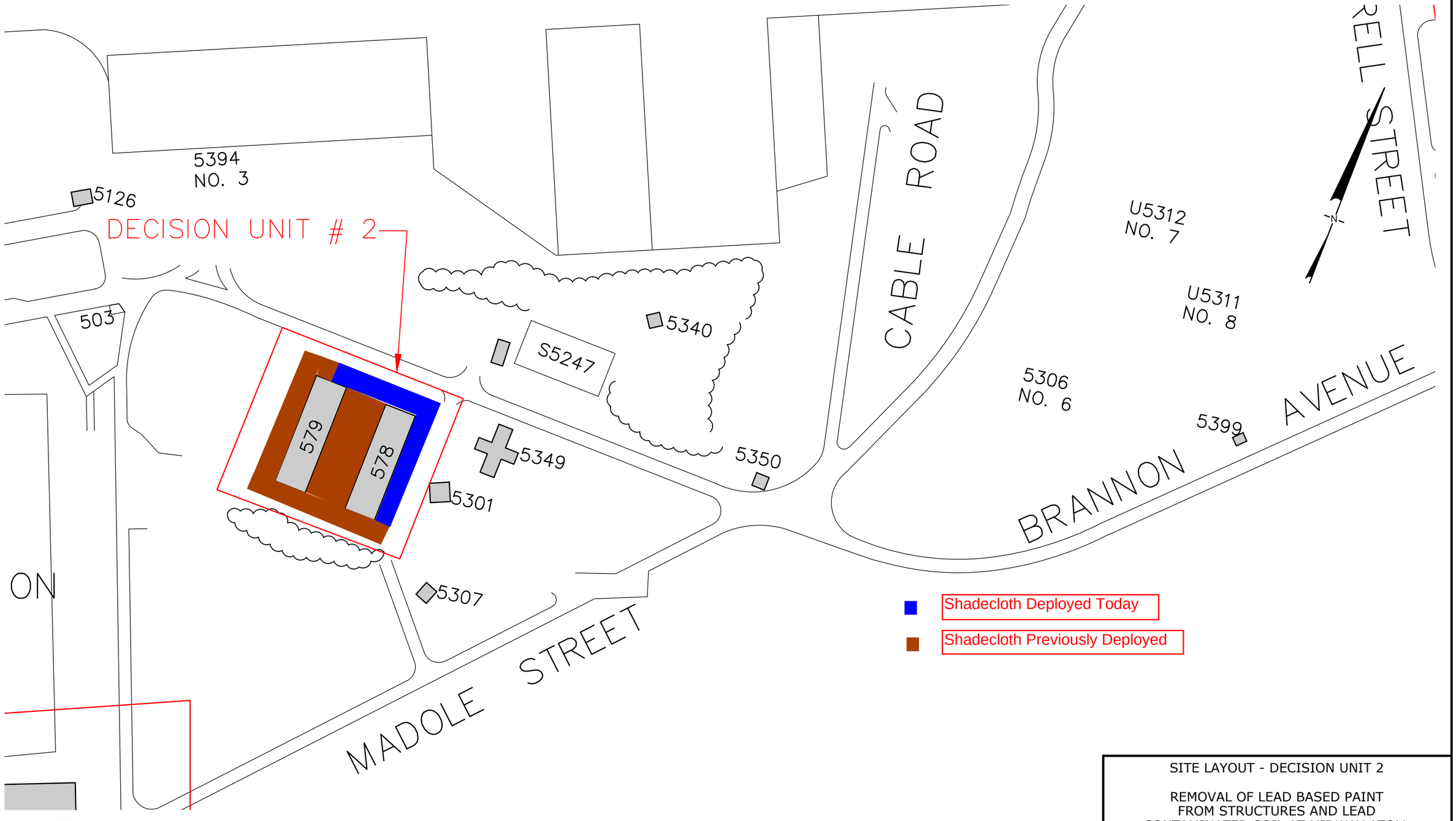
Photo 4: NWDE moving brush piles at DU1.

Photo 5: Completed Shadecloth deployment south of Bldg 623.

Photo 6: Completed Shadecloth deployment south of Bldg 623.

Site Map:

The attached site map presents the shadecloth that was deployed today.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 2

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

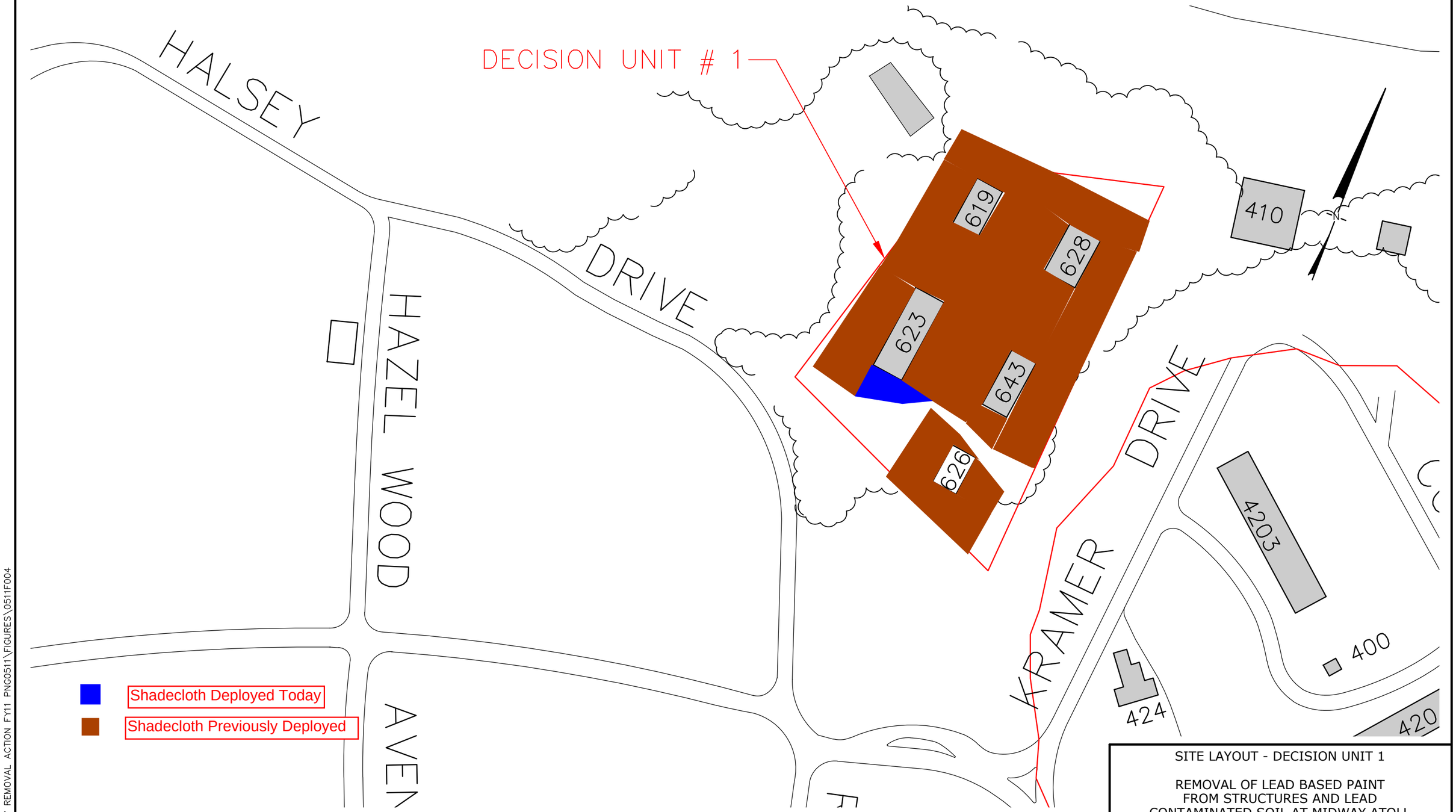
NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
3

OCTOBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F005.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F005.dwg



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Figure:
2

SEPTEMBER 2011

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, November 8, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light to medium intermittent rain, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	8.5
Everett White	NWDE Super.	8.5
Mike Saiki	NWDE Laborer	8.5
Dave Hard	NWDE Laborer	8.5
Jose Ordaz	NWDE Laborer	8.5
Vuyani Ntantiso	NWDE Laborer	8.5
Dane Borero	NWDE Laborer	8.5

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715: NWDE holds a Tailgate H&S briefing.

0730 – NWDE resumes securing DU1 prior to demobilization. NWDE continues removing the brush piles from DU1 (rented loader for 2 hours, 6 hours total).

~1000 – NWDE places a few more sandbags as requested by the US FWS PM along the south walls of Bldgs 578 and 579 (DU2).

NWDE inspects DU6 and re-sets sandbags that are displaced.

NWDE cleans out the Shipping Containers and begins an inventory of supplies.

Michael takes field verification testing measurements of the R-2 unit and gathers supplies for constructing peizometers (2) for use in infiltration testing.

1200 – Lunch.

1230 – NWDE is cleaning out the pickup truck and constructing 2 peizometers for use in infiltration testing.

~ 1400 – NWDE performs a test pit excavation immediately east of CB5 (near the R-2 Unit) to determine the elevation of the water table. A peizometer was set in this excavation below the water table. A second peizometer was set above the water table in a separate test pit excavation. ~ 20 gallons of water was poured down both peizometers to pre-saturate them.

1630 – End of Day. Approximately 0 man-hours spent inspecting Petrel / Shearwater burrows. No shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 375 (not including Volunteer man-hours)

Photographs:

Photo 01 – NWDE excavating test pits to determine water table elevation and install peizometers.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, November 9, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light to medium intermittent rain, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	8.5
Everett White	NWDE Super.	8.5
Mike Saiki	NWDE Laborer	8.5
Dave Hard	NWDE Laborer	8.5
Jose Ordaz	NWDE Laborer	8.5
Vuyani Ntantiso	NWDE Laborer	8.5
Dane Borero	NWDE Laborer	8.5

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700-0715: NWDE holds a Tailgate H&S briefing.

0715 – NWDE inventories (prepares a map with locations) the bottles and objects found while trenching and inspecting bird burrows at DU1 for US FWS PM.

~0800 – NWDE cleans up the Bobcat skid steer and mini-excavator and places the skid steer in a shipping container at the NAF Airport Hanger. The mini-excavator is stored underneath the overhang of the NAF Airport Hanger.

NWDE inventories supplies on hand in the shipping containers.

NWDE empties 1 shipping container so that it can return to Honolulu on the next barge back (in December).

1200 – Lunch

1330 – NWDE performs infiltration testing on the peizometers set on 11/8. 5 replicates were performed on the peizometer set below the water table. 3 replicates were performed on the peizometer set above the water table. NWDE will return on 11/10 to perform 2 more replicates on the peizometer set above the water table.

1630 – End of Day. Approximately 0 man-hours spent inspecting Petrel / Shearwater burrows. No shadecloth was deployed today.

Cumulative Man-hours for Petrel / Shearwater Inspections: 375 (not including Volunteer man-hours)

Daily Field Report

Date: Thursday, November 10, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light, intermittent rain, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	4
Everett White	NWDE Super.	4
Mike Saiki	NWDE Laborer	4
Dave Hard	NWDE Laborer	4
Jose Ordaz	NWDE Laborer	4
Vuyani Ntantiso	NWDE Laborer	4
Dane Borero	NWDE Laborer	4

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F-350 Service Truck	NWDE
Mini-Excavator	Cat 308	NWDE
Skid Steer	Bobcat S185	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0730: NWDE holds a Tailgate H&S briefing.

~0800 – NWDE performs infiltration testing (2 replicates) on the peizometer set above the water table on 11/8.

0915 – NWDE collects a 5-part composite sample from specific locations around Bldg 643 (DU1) for treatability testing. Locations were chosen to duplicate the samples collected by GeoEngineers in April 2008. Sample aliquots were collected from 0 to 1 foot bgs. NWDE also collects paint chips fallen of Bldg 643 onto the shadecloth and peels flakey paint off Bldg 643 for submission to the project analytical lab for treatability testing.

1130 – End of Day. Approximately 0 man-hours spent inspecting Petrel / Shearwater burrows. No shadecloth was deployed today.

All fly off island @ ~ 2000.

Cumulative Man-hours for Petrel / Shearwater Inspections: 375 (not including Volunteer man-hours)

Appendix B
Photographic Log

Photo 1: 10/20/11 – Looking North west @ South facing Wall of Bldg 349; Abatement / Re-Paint complete.

Photo 2: 10/20/11 – Looking South east @ North facing Wall of Bldg 349; Abatement / Re-Paint complete

Photo 3: 10/26/11 – Looking North @ South facing Wall of Bldg 363; Abatement / Re-Paint complete

Photo 4: 10/26/11 – Looking West @ East facing Wall of Bldg 363; Abatement / Re-Paint complete

Photo 5: 10/26/11 – Looking South @ North facing Wall of Bldg 363; Abatement / Re-Paint complete

Photo 6: 11/2/11 – Looking North west @ East facing Wall of Bldg 357; Abatement / Re-Paint complete

Photo 7: 11/2/11 Looking North west @ South facing Wall of Bldg 357; Abatement / Re-Paint complete

Photo 8: 11/2/11 – Looking North @ West facing Wall of Bldg 357; Abatement / Re-Paint complete

Photo 9: 11/2/11 - Looking North west @ West facing Wall of Bldg 357; Abatement / Re-Paint complete

Photo 10: 11/4/11 - Looking East @ North facing Wall of Bldg 357; Abatement / Re-Paint complete

Photo 11: 10/17/11 - Looking North west @ Shadecloth deployed between Bldgs 357 and 363

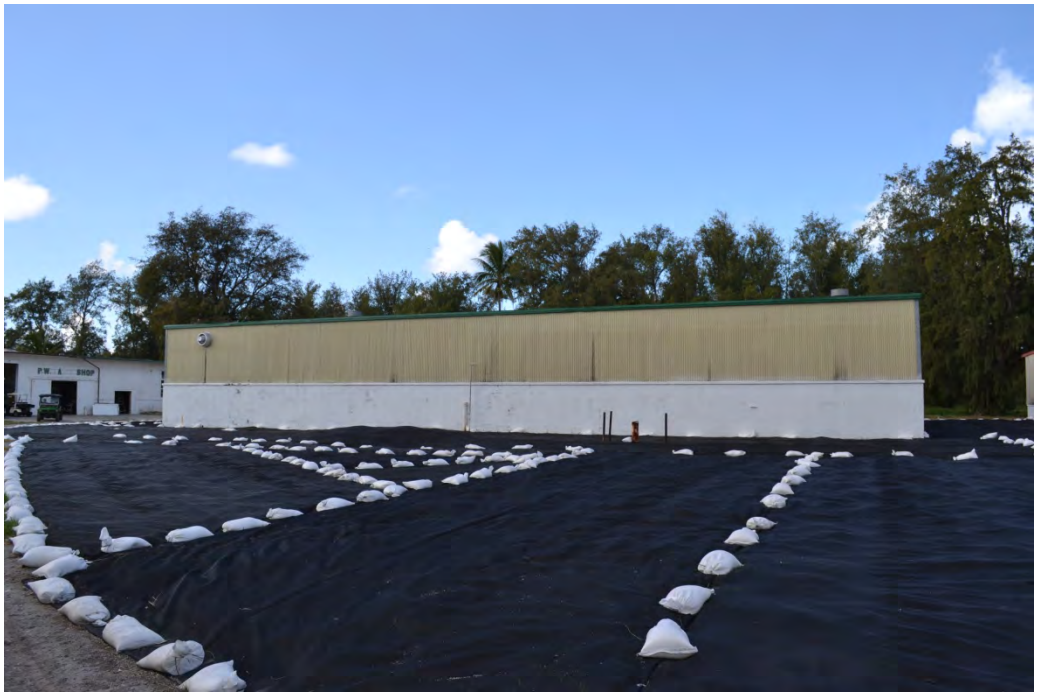


Photo 12: 10/18/11 - Looking North west @ Shadecloth deployed along the south facing wall of Bldg 349

Photo 13: 10/23/11 - Looking South east @ Shadecloth deployed along the west facing wall of Bldg 393

Photo 14: 10/24/11 – Looking South @ Shadecloth deployed along the east facing wall of Bldg 356

Photo 15: 10/31/11 – Looking West @ Shadecloth deployed along the south facing wall of Bldg 628

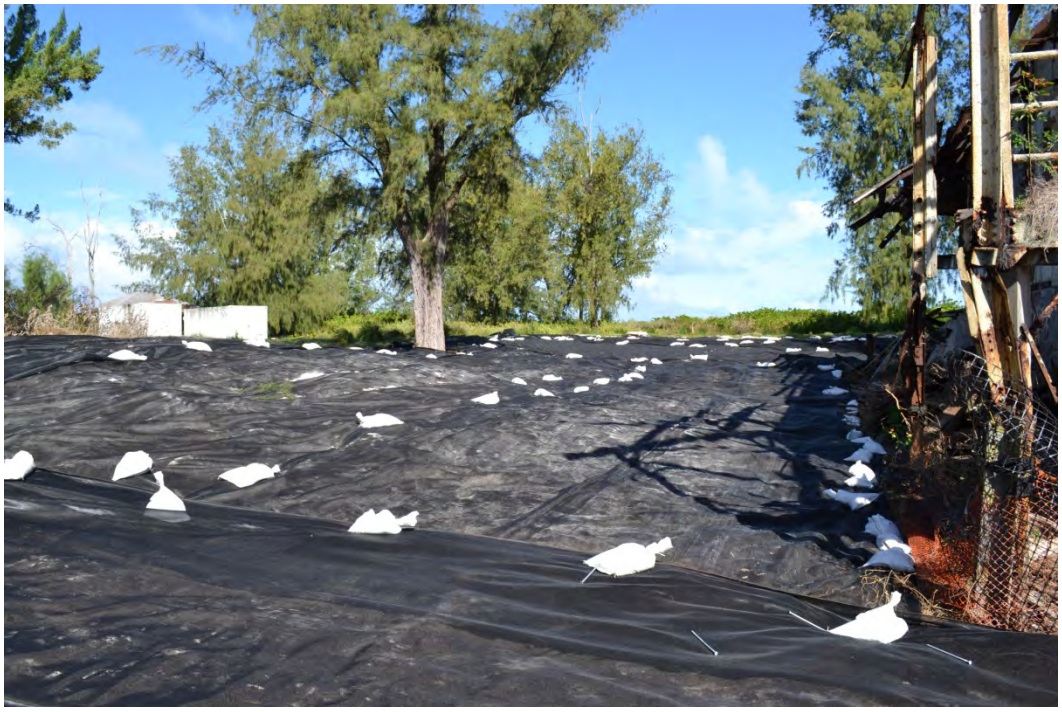


Photo 16: 10/31/11 – Looking North west @ Shadecloth deployed along the west facing wall of Bldg 619

Photo 17: 11/3/11 – Looking North east @ Shadecloth deployed along the west facing wall of Bldg 623

Photo 18: 11/7/11 – Looking South east @ Shadecloth deployed between Bldgs 578 and 579

Photo 19: 11/6/11 – Looking West @ Shadecloth deployed along the south facing walls of Bldgs 578 and 579

Appendix C
Air Monitoring –
Negative Exposure Assessment

GLOBETECK GROUP, INC
534 Ohohia Street, Suite #B, Honolulu, Hawaii 96819 • PHONE (808) 833-5787 • FAX (808) 833-5987
SITE http://www.globeteckgroup.com

October 22, 2011
North West Demolition & Dismantling
PO Box 230819
Tigard, OR 97281

SUBJECT: NEGATIVE EXPOSURE ASSESSMENT, MIDWAY ATOLL, BUILDING 349, AND BUILDING 63

Dear Mr. Leibelt:

I reviewed the laboratory results of all lead air samples that were collected for the above-mentioned project dated October 12, 2011 to October 20, 2011. The laboratory results of these samples are below the regulatory limits and/or action levels (30 ug/m^3), therefore, continued lead sampling is not recommended. Based on the laboratory results, review of the laboratory quality control samples and the observation of the IH, lead air sampling is recommended to be discontinued, and disposable suites may be down-graded provided that the same work procedures and crew members will be resumed. Respirators will still be required during demolition activities.

If you have a question regarding this matter, please call me at 833-5787.

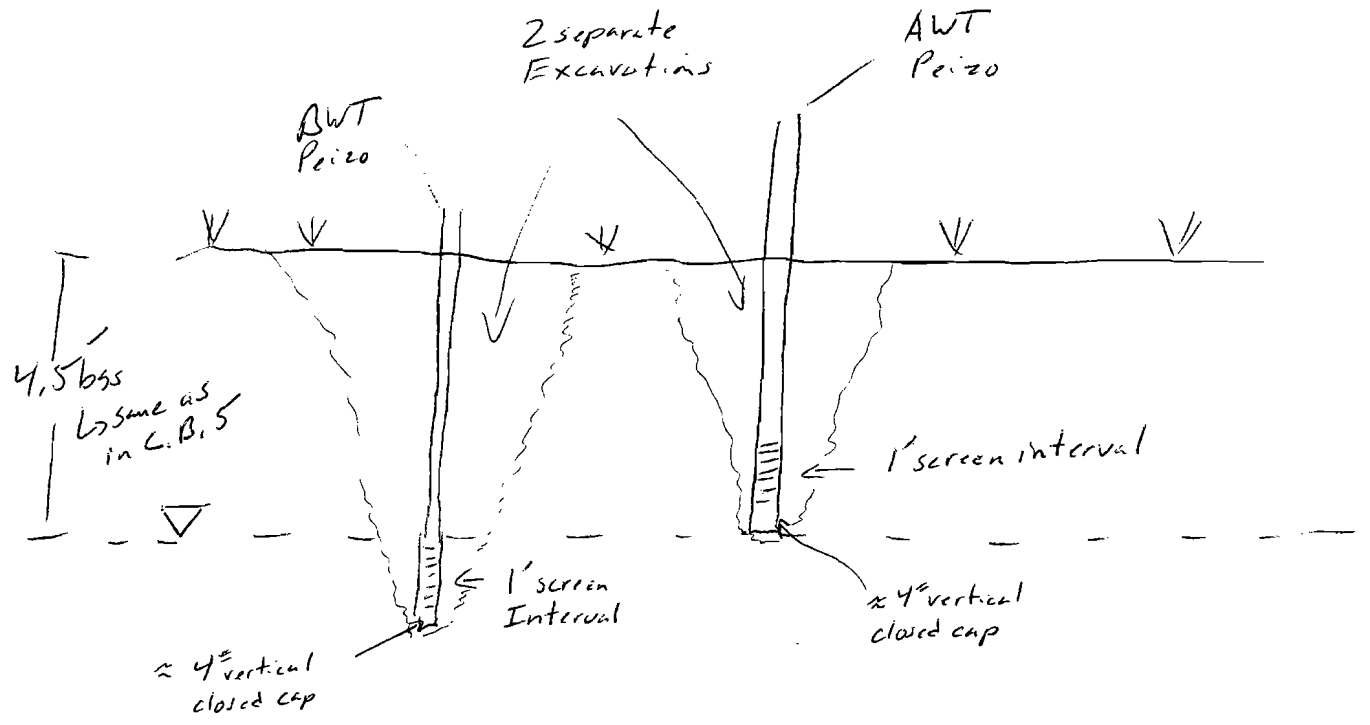
Sincerely,

Ahkoni Quigoue, IH
Globeteck Group, Inc

Appendix D
Percolation Test Field Logs

Midway Peizometers installed near C.B. #5

11-8-11



- Poured ≈ 20-25 gallons of water down both to "develop" or "presaturate" then let sit overnight.

- Both are 4" ∅ PVC well casing + screen
- Each was put in a separate hole/excavation by mini-Excavator
- The piezo below the water table is ≈ 10' east of C.B. #5
- The piezo above the water table is ≈ 6' east of that
- Formation is essentially all native sand

Geosyntec consultants

Percolation Test

Date: 11/9/11
Name: Schott
Project Number:
Site Name: Midway
Weather:

Boring ID: BWT (below water table)
Location:
Soil Description:

Initial Conditions: Peizo. DTB from TOC is 6.91'
Initial water Level is 1.91' off bottom of Peizo.

	Time (sec)	Elapsed	Reading (ft head)	Inch/Elapse	Time/Inch	Min/Inch
Rep #1	0		6.73			
	15		4.75			
	30.		2.85			
	45		2.02			
	60		1.95			
	75		1.95			
Rep #2	0		6.73			
	15		3.09			
	30		2.44			
	45		2.08			
	60		2.00			
	75		1.95			
Rep #3	0		6.73			
	15		3.00			
	30		2.31			
	45		2.15			
	60		2.20			
	75		2.10			
	90		1.95			

Geosyntec consultants

Percolation Test

Date: 11/9/11
Name: Schott
Project Number:
Site Name: Midway
Weather:

Boring ID: BWT (below water table)
Location:
Soil Description:

Time (Sec)	Elapsed	Reading (ft head)	Inch/Elapse	Time/Inch	Min/Inch
0		6.73			
15		3.10			
30		2.35			
45		2.10			
60		1.95			
75		1.95			
0		6.73			
15		3.03			
30		2.35			
45		2.09			
60		1.95			
75		1.95			

Rep #4

Rep #5

Geosyntec consultants

Percolation Test

Date: 11/9/11
Name: Schott
Project Number:
Site Name: Midway
Weather:

Boring ID: AWT (above water table)
Location:
Soil Description:

Initial Conditions: Peizo DTW from TOC is 6.91'
Initial Water Level is 0.35' off bottom of Peizo
↳ due to 4" closed cap at bottom of Peizo!

Time (sec)	Elapsed	Reading (ft head)	Inch/Elapse	Time/Inch	Min/Inch
Rep #1					
0		6.70			
15		2.28			
30		1.47			
45		1.15			
60		1.15			
75		0.90			
90		0.80			
105		0.83			
120		0.80			
Rep #2					
0		6.70			
15		2.09			
30		1.40			
45		1.06			
60		0.93			
75		0.85			
90		0.80			
105		0.77			
Rep #3					
0		6.7			
15		2.08			
30		1.23			
45		1.05			
60		0.90			
75		0.81			
90		0.75			

Geosyntec consultants

Percolation Test

Date: 11/10/11
Name: Schott
Project Number:
Site Name: Midway
Weather:

Boring ID: AWT (above water table)
Location:
Soil Description:

Initial Conditions: Initial water level is 0.32' off bottom of Peizo.
↳ due to 4" closed cap at bottom of Peizo.

Time (Sec)	Elapsed	Reading (ft head)	Inch/Elapse	Time/Inch	Min/Inch
Rep #4					
0		6.7			
15		1.77			
30		1.13			
45		0.88			
60		0.74			
75		0.72			
90		0.63			
Rep #5					
0		6.70			
15		1.87			
30		1.18			
45		0.95			
60		0.81			
75		0.72			
90		0.68			
105		0.63			

Appendix E
TestAmerica Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HUJ0093
Client Project/Site: Midway, PNG0511
Client Project Description: Midway Island

For:
Geosyntec Consultants
475 14th Street, Suite 400
Oakland, CA 94612

Attn: Scott Felton

Authorized for release by:
11/18/2011 5:08:28 PM

Marvin D. Heskett III
Laboratory Director
marvin.heskett@testamericainc.com

Table of Contents

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Qualifiers

GC Semivolatiles

Qualifier	Qualifier Description
C-01	To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665A, which is specific to hydrocarbon contamination.

Pesticides

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.
C-2	Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria.

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Job ID: HUJ0093

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

At sample receipt, the cooler/sample was 4 degrees C.
NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Samples were prepared in accordance with the State of Hawai'i Department of Health Office of Hazard Evaluation and Emergency Response's Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan 2009 edition Laboratory Preparation of Multi-Increment Samples.

Laboratory: TestAmerica Seattle

Narrative

Receipt
No collection time reported on sample containers. Samples logged-in and labeled per sampling time on COC.

All other samples were received in good condition within temperature requirements.

Metals
Method(s) 6010B: The matrix spike duplicate (MSD) recovery for batch 99851 for Pb Only were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch _99891____ were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Sample Summary

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HUJ0093-01	MDW-BORROW	Solid/Soil	10/19/11 13:00	10/20/11 16:20

Detection Summary

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Client Sample ID: MDW-BORROW — Lab Sample ID: HUJ0093-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	4.7		0.98		mg/Kg	10		6010B	Total/NA
Chromium	4.4		2.5		mg/Kg	10		6010B	Total/NA
Lead	0.51		0.039		mg/Kg	10		6020	Total/NA

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Client Sample ID: MDW-BORROW
Date Collected: 10/19/11 13:00
Date Received: 10/20/11 16:20

Lab Sample ID: HUJ0093-01
Matrix: Solid/Soil

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
2-Methylnaphthalene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Acenaphthene	ND		0.00649		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Acenaphthylene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Anthracene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Benzo (a) anthracene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Benzo (a) pyrene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Benzo (b) fluoranthene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Benzo (g,h,i) perylene	ND		0.0136		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Benzo (k) fluoranthene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Chrysene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Dibenzo (a,h) anthracene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Fluoranthene	ND		0.00649		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Fluorene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Naphthalene	ND		0.00649		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Phenanthrene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00
Pyrene	ND		0.00650		mg/kg		11/02/11 11:00	11/03/11 14:24	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*50 - 120*	*11/02/11 11:00*	*11/03/11 14:24*	*1.00*
Nitrobenzene-d5	*65*		*40 - 120*	*11/02/11 11:00*	*11/03/11 14:24*	*1.00*
Terphenyl-d14	*66*		*60 - 130*	*11/02/11 11:00*	*11/03/11 14:24*	*1.00*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
4,4'-DDE	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
4,4'-DDT	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Aldrin	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
alpha-BHC	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
beta-BHC	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Chlordane	ND		0.0322		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
delta-BHC	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Dieldrin	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Endosulfan I	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Endosulfan II	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Endosulfan sulfate	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Endrin	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Endrin aldehyde	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Endrin ketone	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
gamma-BHC (Lindane)	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Heptachlor	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Heptachlor epoxide	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Methoxychlor	ND		0.0195		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
Toxaphene	ND		0.0489		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
alpha-Chlordane	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00
gamma-Chlordane	ND		0.00391		mg/kg		11/02/11 10:26	11/10/11 20:50	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*88*		*45 - 120*	*11/02/11 10:26*	*11/10/11 20:50*	*1.00*

Client Sample ID: MDW-BORROW
Date Collected: 10/19/11 13:00
Date Received: 10/20/11 16:20

Lab Sample ID: HUJ0093-01
Matrix: Solid/Soil

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*80*		*55 - 105*	*11/02/11 10:26*	*11/10/11 20:50*	*1.00*

Method: EPA 8082 - Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	C-01	0.0311		mg/kg		11/10/11 09:52	11/10/11 13:36	1.00
Aroclor 1221	ND	C-01	0.0621		mg/kg		11/10/11 09:52	11/10/11 13:36	1.00
Aroclor 1232	ND	C-01	0.0311		mg/kg		11/10/11 09:52	11/10/11 13:36	1.00
Aroclor 1242	ND	C-01	0.0311		mg/kg		11/10/11 09:52	11/10/11 13:36	1.00
Aroclor 1248	ND	C-01	0.0311		mg/kg		11/10/11 09:52	11/10/11 13:36	1.00
Aroclor 1254	ND	C-01	0.0311		mg/kg		11/10/11 09:52	11/10/11 13:36	1.00
Aroclor 1260	ND	C-01	0.0311		mg/kg		11/10/11 09:52	11/10/11 13:36	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*77*	*C-01*	*60 - 115*	*11/10/11 09:52*	*11/10/11 13:36*	*1.00*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
4,4'-DDE	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
4,4'-DDT	ND	H3 C-2	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Aldrin	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
alpha-BHC	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
beta-BHC	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
delta-BHC	ND	H3	10		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Dieldrin	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Endosulfan I	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Endosulfan II	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Endosulfan sulfate	ND	H3	10		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Endrin	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Endrin aldehyde	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Endrin ketone	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
gamma-BHC (Lindane)	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Heptachlor	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Heptachlor epoxide	ND	H3	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Methoxychlor	ND	H3 C-2	5.0		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Chlordane	ND	H3	50		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0
Toxaphene	ND	H3	200		ug/kg		11/08/11 14:12	11/09/11 20:29	1.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*82*	*H3*	*45 - 120*	*11/08/11 14:12*	*11/09/11 20:29*	*1.0*
Tetrachloro-m-xylene	*78*	*H3*	*35 - 115*	*11/08/11 14:12*	*11/09/11 20:29*	*1.0*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.9		mg/Kg		11/10/11 10:31	11/10/11 14:21	10
Barium	**4.7**		0.98		mg/Kg		11/10/11 10:31	11/10/11 14:21	10
Cadmium	ND		0.98		mg/Kg		11/10/11 10:31	11/10/11 14:21	10
Chromium	**4.4**		2.5		mg/Kg		11/10/11 10:31	11/10/11 14:21	10
Lead	ND		2.9		mg/Kg		11/10/11 10:31	11/10/11 14:21	10
Selenium	ND		9.8		mg/Kg		11/10/11 10:31	11/10/11 14:21	10
Silver	ND		2.0		mg/Kg		11/10/11 10:31	11/10/11 14:21	10

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Client Sample ID: MDW-BORROW
Date Collected: 10/19/11 13:00
Date Received: 10/20/11 16:20

Lab Sample ID: HUJ0093-01
Matrix: Solid/Soil

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.51		0.039		mg/Kg		11/10/11 10:31	11/10/11 12:47	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019		mg/Kg		11/10/11 09:52	11/10/11 11:10	10

Surrogate Summary

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Matrix: Solid/Soil **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(50-120)	(40-120)	(60-130)
11K0012-BLK1	Method Blank	73	72	67
11K0012-BS1	Lab Control Sample	68	75	68
11K0012-MS1	MDW-BORROW	65	70	66
11K0012-MSD1	MDW-BORROW	64	70	66
HUJ0093-01	MDW-BORROW	63	65	66

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Matrix: Solid/Soil **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB	TCX
Lab Sample ID	Client Sample ID	(45-120)	(55-105)
11K0011-BLK1	Method Blank	89	85
11K0011-BS1	Lab Control Sample	86	84
11K0011-MS1	MDW-BORROW	84	84
11K0011-MSD1	MDW-BORROW	90	86
HUJ0093-01	MDW-BORROW	88	80

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-meta-xylene

Method: EPA 8082 - Polychlorinated Biphenyls by EPA Method 8082

Matrix: Solid/Soil **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB
Lab Sample ID	Client Sample ID	(60-115)
11K0058-BLK1	Method Blank	83 C-01
11K0058-BS1	Lab Control Sample	81 C-01
11K0058-MS1	MDW-BORROW	80 C-01
11K0058-MSD1	MDW-BORROW	83 C-01
HUJ0093-01	MDW-BORROW	77 C-01

Surrogate Legend

DCB = Decachlorobiphenyl

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Matrix: Soil **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB	TCX
Lab Sample ID	Client Sample ID	(45-120)	(35-115)
11K1156-BLK1	Method Blank	91	77
11K1156-BS1	Lab Control Sample	90	79
11K1156-MS1	Matrix Spike	65	67
11K1156-MSD1	Matrix Spike Duplicate	67	70

Surrogate Summary

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Matrix: Solid/Soil **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB	TCX								
Lab Sample ID	Client Sample ID	(45-120)	(35-115)								
HUJ0093-01	MDW-BORROW	82 H3	78 H3								

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Lab Sample ID: 11K0012-BLK1
Matrix: Solid/Soil
Analysis Batch: 11K0012

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11K0012_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
2-Methylnaphthalene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Acenaphthene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Acenaphthylene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Anthracene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Benzo (a) anthracene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Benzo (a) pyrene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Benzo (b) fluoranthene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Benzo (g,h,i) perylene	ND		0.0140		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Benzo (k) fluoranthene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Chrysene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Dibenzo (a,h) anthracene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Fluoranthene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Fluorene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Naphthalene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Phenanthrene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00
Pyrene	ND		0.00667		mg/kg		11/02/11 11:00	11/03/11 10:58	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*50 - 120*	*11/02/11 11:00*	*11/03/11 10:58*	*1.00*
Nitrobenzene-d5	*72*		*40 - 120*	*11/02/11 11:00*	*11/03/11 10:58*	*1.00*
Terphenyl-d14	*67*		*60 - 130*	*11/02/11 11:00*	*11/03/11 10:58*	*1.00*

Lab Sample ID: 11K0012-BS1
Matrix: Solid/Soil
Analysis Batch: 11K0012

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11K0012_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	0.167	0.114		mg/kg		69	45 - 120
2-Methylnaphthalene	0.167	0.120		mg/kg		72	45 - 120
Acenaphthene	0.167	0.129		mg/kg		77	55 - 120
Acenaphthylene	0.167	0.128		mg/kg		77	55 - 120
Anthracene	0.167	0.127		mg/kg		76	55 - 120
Benzo (a) anthracene	0.167	0.138		mg/kg		83	65 - 120
Benzo (a) pyrene	0.167	0.104		mg/kg		62	25 - 120
Benzo (b) fluoranthene	0.167	0.140		mg/kg		84	65 - 120
Benzo (g,h,i) perylene	0.167	0.112		mg/kg		67	45 - 120
Benzo (k) fluoranthene	0.167	0.132		mg/kg		79	55 - 120
Chrysene	0.167	0.132		mg/kg		79	60 - 120
Dibenzo (a,h) anthracene	0.167	0.127		mg/kg		76	55 - 120
Fluoranthene	0.167	0.135		mg/kg		81	60 - 120
Fluorene	0.167	0.130		mg/kg		78	60 - 120
Indeno (1,2,3-cd) pyrene	0.167	0.124		mg/kg		74	55 - 120
Naphthalene	0.167	0.131		mg/kg		79	45 - 120
Phenanthrene	0.167	0.130		mg/kg		78	60 - 120
Pyrene	0.167	0.128		mg/kg		77	60 - 120

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Lab Sample ID: 11K0012-BS1
Matrix: Solid/Soil
Analysis Batch: 11K0012

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11K0012_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	68		50 - 120
Nitrobenzene-d5	75		40 - 120
Terphenyl-d14	68		60 - 130

Lab Sample ID: 11K0012-MS1
Matrix: Solid/Soil
Analysis Batch: 11K0012

Client Sample ID: MDW-BORROW
Prep Type: Total
Prep Batch: 11K0012_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	ND		0.162	0.106		mg/kg		66	45 - 120
2-Methylnaphthalene	ND		0.162	0.112		mg/kg		69	45 - 120
Acenaphthene	ND		0.162	0.119		mg/kg		73	55 - 120
Acenaphthylene	ND		0.162	0.121		mg/kg		74	55 - 120
Anthracene	ND		0.162	0.126		mg/kg		78	55 - 120
Benzo (a) anthracene	ND		0.162	0.132		mg/kg		82	65 - 120
Benzo (a) pyrene	ND		0.162	0.124		mg/kg		76	25 - 120
Benzo (b) fluoranthene	ND		0.162	0.132		mg/kg		82	65 - 120
Benzo (g,h,i) perylene	ND		0.162	0.109		mg/kg		67	45 - 120
Benzo (k) fluoranthene	ND		0.162	0.131		mg/kg		81	55 - 120
Chrysene	0.00315		0.162	0.126		mg/kg		76	60 - 120
Dibenzo (a,h) anthracene	ND		0.162	0.121		mg/kg		75	55 - 120
Fluoranthene	ND		0.162	0.131		mg/kg		81	60 - 120
Fluorene	ND		0.162	0.126		mg/kg		78	60 - 120
Indeno (1,2,3-cd) pyrene	ND		0.162	0.117		mg/kg		72	55 - 120
Naphthalene	ND		0.162	0.118		mg/kg		72	45 - 120
Phenanthrene	ND		0.162	0.124		mg/kg		77	60 - 120
Pyrene	ND		0.162	0.124		mg/kg		76	60 - 120

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
2-Fluorobiphenyl	65		50 - 120
Nitrobenzene-d5	70		40 - 120
Terphenyl-d14	66		60 - 130

Lab Sample ID: 11K0012-MSD1
Matrix: Solid/Soil
Analysis Batch: 11K0012

Client Sample ID: MDW-BORROW
Prep Type: Total
Prep Batch: 11K0012_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	ND		0.156	0.102		mg/kg		65	45 - 120	4	30
2-Methylnaphthalene	ND		0.156	0.106		mg/kg		68	45 - 120	5	30
Acenaphthene	ND		0.156	0.115		mg/kg		73	55 - 120	4	30
Acenaphthylene	ND		0.156	0.117		mg/kg		75	55 - 120	3	30
Anthracene	ND		0.156	0.120		mg/kg		77	55 - 120	5	30
Benzo (a) anthracene	ND		0.156	0.127		mg/kg		82	65 - 120	4	30
Benzo (a) pyrene	ND		0.156	0.117		mg/kg		75	25 - 120	6	30
Benzo (b) fluoranthene	ND		0.156	0.128		mg/kg		82	65 - 120	3	30
Benzo (g,h,i) perylene	ND		0.156	0.102		mg/kg		65	45 - 120	7	30
Benzo (k) fluoranthene	ND		0.156	0.122		mg/kg		78	55 - 120	8	30
Chrysene	0.00315		0.156	0.122		mg/kg		76	60 - 120	4	30

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Lab Sample ID: 11K0012-MSD1
Matrix: Solid/Soil
Analysis Batch: 11K0012

Client Sample ID: MDW-BORROW
Prep Type: Total
Prep Batch: 11K0012_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenzo (a,h) anthracene	ND		0.156	0.115		mg/kg		74	55 - 120	5	30
Fluoranthene	ND		0.156	0.129		mg/kg		83	60 - 120	2	30
Fluorene	ND		0.156	0.118		mg/kg		75	60 - 120	7	30
Indeno (1,2,3-cd) pyrene	ND		0.156	0.113		mg/kg		72	55 - 120	4	30
Naphthalene	ND		0.156	0.114		mg/kg		73	45 - 120	3	30
Phenanthrene	ND		0.156	0.118		mg/kg		75	60 - 120	5	30
Pyrene	ND		0.156	0.118		mg/kg		76	60 - 120	4	30

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*50 - 120*
Nitrobenzene-d5	*70*		*40 - 120*
Terphenyl-d14	*66*		*60 - 130*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Lab Sample ID: 11K0011-BLK1
Matrix: Solid/Soil
Analysis Batch: 11K0011

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11K0011_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
4,4'-DDE	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
4,4'-DDT	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Aldrin	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
alpha-BHC	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
beta-BHC	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Chlordane	ND		0.0330		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
delta-BHC	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Dieldrin	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Endosulfan I	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Endosulfan II	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Endosulfan sulfate	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Endrin	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Endrin aldehyde	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Endrin ketone	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
gamma-BHC (Lindane)	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Heptachlor	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Heptachlor epoxide	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Methoxychlor	ND		0.0200		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
Toxaphene	ND		0.0500		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
alpha-Chlordane	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00
gamma-Chlordane	ND		0.00400		mg/kg		11/02/11 10:26	11/10/11 18:00	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*89*		*45 - 120*	*11/02/11 10:26*	*11/10/11 18:00*	*1.00*
Tetrachloro-meta-xylene	*85*		*55 - 105*	*11/02/11 10:26*	*11/10/11 18:00*	*1.00*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Lab Sample ID: 11K0011-BS1
Matrix: Solid/Soil
Analysis Batch: 11K0011

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11K0011_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0667	0.0601		mg/kg		90	55 - 130
4,4'-DDE	0.0667	0.0557		mg/kg		84	60 - 120
4,4'-DDT	0.0667	0.0588		mg/kg		88	55 - 135
Aldrin	0.0667	0.0562		mg/kg		84	60 - 115
alpha-BHC	0.0667	0.0568		mg/kg		85	65 - 115
beta-BHC	0.0667	0.0570		mg/kg		86	60 - 120
delta-BHC	0.0667	0.0583		mg/kg		87	60 - 120
Dieldrin	0.0667	0.0589		mg/kg		88	65 - 115
Endosulfan I	0.0667	0.0575		mg/kg		86	65 - 115
Endosulfan II	0.0667	0.0574		mg/kg		86	65 - 115
Endosulfan sulfate	0.0667	0.0577		mg/kg		86	65 - 115
Endrin	0.0667	0.0593		mg/kg		89	60 - 120
Endrin aldehyde	0.0667	0.0562		mg/kg		84	50 - 120
Endrin ketone	0.0667	0.0611		mg/kg		92	60 - 125
gamma-BHC (Lindane)	0.0667	0.0579		mg/kg		87	60 - 120
Heptachlor	0.0667	0.0609		mg/kg		91	55 - 125
Heptachlor epoxide	0.0667	0.0576		mg/kg		86	60 - 115
Methoxychlor	0.0667	0.0622		mg/kg		93	50 - 140
alpha-Chlordane	0.0667	0.0557		mg/kg		84	55 - 120
gamma-Chlordane	0.0667	0.0557		mg/kg		84	60 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*86*		*45 - 120*
Tetrachloro-meta-xylene	*84*		*55 - 105*

Lab Sample ID: 11K0011-MS1
Matrix: Solid/Soil
Analysis Batch: 11K0011

Client Sample ID: MDW-BORROW
Prep Type: Total
Prep Batch: 11K0011_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.0623	0.0536		mg/kg		86	55 - 130
4,4'-DDE	ND		0.0623	0.0505		mg/kg		81	60 - 120
4,4'-DDT	ND		0.0623	0.0529		mg/kg		85	55 - 135
Aldrin	ND		0.0623	0.0517		mg/kg		83	60 - 115
alpha-BHC	ND		0.0623	0.0528		mg/kg		85	65 - 115
beta-BHC	ND		0.0623	0.0518		mg/kg		83	60 - 120
delta-BHC	ND		0.0623	0.0528		mg/kg		85	60 - 120
Dieldrin	ND		0.0623	0.0530		mg/kg		85	65 - 115
Endosulfan I	ND		0.0623	0.0517		mg/kg		83	65 - 115
Endosulfan II	ND		0.0623	0.0514		mg/kg		82	65 - 115
Endosulfan sulfate	ND		0.0623	0.0526		mg/kg		84	65 - 115
Endrin	ND		0.0623	0.0567		mg/kg		91	60 - 120
Endrin aldehyde	ND		0.0623	0.0503		mg/kg		81	50 - 120
Endrin ketone	ND		0.0623	0.0550		mg/kg		88	60 - 125
gamma-BHC (Lindane)	ND		0.0623	0.0537		mg/kg		86	60 - 120
Heptachlor	ND		0.0623	0.0557		mg/kg		89	55 - 125
Heptachlor epoxide	ND		0.0623	0.0529		mg/kg		85	60 - 115
Methoxychlor	ND		0.0623	0.0583		mg/kg		94	50 - 140
alpha-Chlordane	ND		0.0623	0.0514		mg/kg		82	55 - 120

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Lab Sample ID: 11K0011-MS1 — **Client Sample ID: MDW-BORROW**
Matrix: Solid/Soil — **Prep Type: Total**
Analysis Batch: 11K0011 — **Prep Batch: 11K0011_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-Chlordane	0.00186		0.0623	0.0521		mg/kg		81	60 - 115

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
Decachlorobiphenyl	*84*		*45 - 120*
Tetrachloro-meta-xylene	*84*		*55 - 105*

Lab Sample ID: 11K0011-MSD1 — **Client Sample ID: MDW-BORROW**
Matrix: Solid/Soil — **Prep Type: Total**
Analysis Batch: 11K0011 — **Prep Batch: 11K0011_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.0651	0.0613		mg/kg		94	55 - 130	13	30
4,4'-DDE	ND		0.0651	0.0576		mg/kg		88	60 - 120	13	30
4,4'-DDT	ND		0.0651	0.0594		mg/kg		91	55 - 135	12	30
Aldrin	ND		0.0651	0.0570		mg/kg		87	60 - 115	10	30
alpha-BHC	ND		0.0651	0.0572		mg/kg		88	65 - 115	8	30
beta-BHC	ND		0.0651	0.0562		mg/kg		86	60 - 120	8	30
delta-BHC	ND		0.0651	0.0580		mg/kg		89	60 - 120	9	30
Dieldrin	ND		0.0651	0.0604		mg/kg		93	65 - 115	13	30
Endosulfan I	ND		0.0651	0.0580		mg/kg		89	65 - 115	12	30
Endosulfan II	ND		0.0651	0.0591		mg/kg		91	65 - 115	14	30
Endosulfan sulfate	ND		0.0651	0.0615		mg/kg		94	65 - 115	16	30
Endrin	ND		0.0651	0.0649		mg/kg		100	60 - 120	13	30
Endrin aldehyde	ND		0.0651	0.0594		mg/kg		91	50 - 120	17	30
Endrin ketone	ND		0.0651	0.0636		mg/kg		98	60 - 125	14	30
gamma-BHC (Lindane)	ND		0.0651	0.0580		mg/kg		89	60 - 120	8	30
Heptachlor	ND		0.0651	0.0609		mg/kg		93	55 - 125	9	30
Heptachlor epoxide	ND		0.0651	0.0589		mg/kg		90	60 - 115	11	30
Methoxychlor	ND		0.0651	0.0651		mg/kg		100	50 - 140	11	30
alpha-Chlordane	ND		0.0651	0.0580		mg/kg		89	55 - 120	12	30
gamma-Chlordane	0.00186		0.0651	0.0588		mg/kg		87	60 - 115	12	30

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Decachlorobiphenyl	*90*		*45 - 120*
Tetrachloro-meta-xylene	*86*		*55 - 105*

Method: EPA 8082 - Polychlorinated Biphenyls by EPA Method 8082

Lab Sample ID: 11K0058-BLK1 — **Client Sample ID: Method Blank**
Matrix: Solid/Soil — **Prep Type: Total**
Analysis Batch: 11K0058 — **Prep Batch: 11K0058_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	C-01	0.0333		mg/kg		11/10/11 09:52	11/10/11 14:59	1.00
Aroclor 1221	ND	C-01	0.0667		mg/kg		11/10/11 09:52	11/10/11 14:59	1.00
Aroclor 1232	ND	C-01	0.0333		mg/kg		11/10/11 09:52	11/10/11 14:59	1.00
Aroclor 1242	ND	C-01	0.0333		mg/kg		11/10/11 09:52	11/10/11 14:59	1.00
Aroclor 1248	ND	C-01	0.0333		mg/kg		11/10/11 09:52	11/10/11 14:59	1.00
Aroclor 1254	ND	C-01	0.0333		mg/kg		11/10/11 09:52	11/10/11 14:59	1.00

Method: EPA 8082 - Polychlorinated Biphenyls by EPA Method 8082 (Continued)

Lab Sample ID: 11K0058-BLK1 — **Client Sample ID: Method Blank**
Matrix: Solid/Soil — **Prep Type: Total**
Analysis Batch: 11K0058 — **Prep Batch: 11K0058_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	ND	C-01	0.0333		mg/kg		11/10/11 09:52	11/10/11 14:59	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*83*	*C-01*	*60 - 115*	*11/10/11 09:52*	*11/10/11 14:59*	*1.00*

Lab Sample ID: 11K0058-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Solid/Soil — **Prep Type: Total**
Analysis Batch: 11K0058 — **Prep Batch: 11K0058_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.136	C-01	mg/kg		82	70 - 115		
Aroclor 1260			0.167	0.139	C-01	mg/kg		83	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*81*	*C-01*	*60 - 115*

Lab Sample ID: 11K0058-MS1 — **Client Sample ID: MDW-BORROW**
Matrix: Solid/Soil — **Prep Type: Total**
Analysis Batch: 11K0058 — **Prep Batch: 11K0058_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND	C-01	0.154	0.131	C-01	mg/kg		85	70 - 115		
Aroclor 1260	ND	C-01	0.154	0.130	C-01	mg/kg		84	60 - 125		

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
Decachlorobiphenyl	*80*	*C-01*	*60 - 115*

Lab Sample ID: 11K0058-MSD1 — **Client Sample ID: MDW-BORROW**
Matrix: Solid/Soil — **Prep Type: Total**
Analysis Batch: 11K0058 — **Prep Batch: 11K0058_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	C-01	0.164	0.139	C-01	mg/kg		85	70 - 115	6	30
Aroclor 1260	ND	C-01	0.164	0.141	C-01	mg/kg		86	60 - 125	8	30

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Decachlorobiphenyl	*83*	*C-01*	*60 - 115*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Lab Sample ID: 11K1156-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 11K1156 — **Prep Batch: 11K1156_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
4,4'-DDE	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
4,4'-DDT	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Lab Sample ID: 11K1156-BLK1
Matrix: Soil
Analysis Batch: 11K1156

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11K1156_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
alpha-BHC	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
beta-BHC	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
delta-BHC	ND		10		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Dieldrin	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Endosulfan I	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Endosulfan II	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Endosulfan sulfate	ND		10		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Endrin	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Endrin aldehyde	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Endrin ketone	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
gamma-BHC (Lindane)	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Heptachlor	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Heptachlor epoxide	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Methoxychlor	ND		5.0		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Chlordane	ND		50		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00
Toxaphene	ND		200		ug/kg		11/08/11 14:12	11/09/11 15:52	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*91*		*45 - 120*	*11/08/11 14:12*	*11/09/11 15:52*	*1.00*
Tetrachloro-m-xylene	*77*		*35 - 115*	*11/08/11 14:12*	*11/09/11 15:52*	*1.00*

Lab Sample ID: 11K1156-BS1
Matrix: Soil
Analysis Batch: 11K1156

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11K1156_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	33.3	33.1		ug/kg		99	60 - 120
4,4'-DDE	33.3	32.2		ug/kg		97	60 - 120
4,4'-DDT	33.3	34.2		ug/kg		103	65 - 120
Aldrin	33.3	30.4		ug/kg		91	50 - 115
alpha-BHC	33.3	29.6		ug/kg		89	60 - 115
beta-BHC	33.3	30.0		ug/kg		90	60 - 115
delta-BHC	33.3	33.0		ug/kg		99	60 - 115
Dieldrin	33.3	32.0		ug/kg		96	65 - 115
Endosulfan I	33.3	31.2		ug/kg		94	40 - 120
Endosulfan II	33.3	32.3		ug/kg		97	55 - 120
Endosulfan sulfate	33.3	33.6		ug/kg		101	65 - 115
Endrin	33.3	34.3		ug/kg		103	55 - 120
Endrin aldehyde	33.3	28.9		ug/kg		87	55 - 115
Endrin ketone	33.3	33.4		ug/kg		100	65 - 115
gamma-BHC (Lindane)	33.3	31.4		ug/kg		94	55 - 115
Heptachlor	33.3	31.2		ug/kg		94	55 - 115
Heptachlor epoxide	33.3	31.4		ug/kg		94	55 - 115
Methoxychlor	33.3	33.0		ug/kg		99	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*90*		*45 - 120*
Tetrachloro-m-xylene	*79*		*35 - 115*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Lab Sample ID: 11K1156-MS1
Matrix: Soil
Analysis Batch: 11K1156

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11K1156_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		33.3	24.4		ug/kg		73	40 - 130
4,4'-DDE	ND		33.3	25.3		ug/kg		76	35 - 130
4,4'-DDT	ND		33.3	24.8		ug/kg		74	35 - 130
Aldrin	ND		33.3	24.9		ug/kg		75	40 - 115
alpha-BHC	ND		33.3	23.0		ug/kg		69	40 - 115
beta-BHC	ND		33.3	23.7		ug/kg		71	40 - 120
delta-BHC	ND		33.3	21.8		ug/kg		65	45 - 120
Dieldrin	ND		33.3	25.0		ug/kg		75	40 - 125
Endosulfan I	ND		33.3	21.9		ug/kg		66	40 - 120
Endosulfan II	ND		33.3	20.4		ug/kg		61	40 - 125
Endosulfan sulfate	ND		33.3	23.8		ug/kg		72	45 - 120
Endrin	ND		33.3	26.8		ug/kg		80	45 - 125
Endrin aldehyde	ND		33.3	19.6		ug/kg		59	30 - 120
Endrin ketone	ND		33.3	23.7		ug/kg		71	40 - 120
gamma-BHC (Lindane)	ND		33.3	24.1		ug/kg		72	40 - 120
Heptachlor	ND		33.3	23.6		ug/kg		71	40 - 115
Heptachlor epoxide	ND		33.3	25.0		ug/kg		75	45 - 115
Methoxychlor	ND		33.3	22.3		ug/kg		67	40 - 135

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
Decachlorobiphenyl	*65*		*45 - 120*
Tetrachloro-m-xylene	*67*		*35 - 115*

Lab Sample ID: 11K1156-MSD1
Matrix: Soil
Analysis Batch: 11K1156

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11K1156_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		33.3	24.6		ug/kg		74	40 - 130	0.7	30
4,4'-DDE	ND		33.3	26.0		ug/kg		78	35 - 130	3	30
4,4'-DDT	ND		33.3	26.0		ug/kg		78	35 - 130	5	30
Aldrin	ND		33.3	25.9		ug/kg		78	40 - 115	4	30
alpha-BHC	ND		33.3	24.4		ug/kg		73	40 - 115	6	30
beta-BHC	ND		33.3	24.8		ug/kg		74	40 - 120	4	30
delta-BHC	ND		33.3	24.5		ug/kg		74	45 - 120	12	30
Dieldrin	ND		33.3	25.7		ug/kg		77	40 - 125	3	30
Endosulfan I	ND		33.3	23.8		ug/kg		72	40 - 120	8	30
Endosulfan II	ND		33.3	22.1		ug/kg		66	40 - 125	8	30
Endosulfan sulfate	ND		33.3	24.8		ug/kg		74	45 - 120	4	30
Endrin	ND		33.3	27.4		ug/kg		82	45 - 125	2	30
Endrin aldehyde	ND		33.3	20.3		ug/kg		61	30 - 120	4	30
Endrin ketone	ND		33.3	24.9		ug/kg		75	40 - 120	5	30
gamma-BHC (Lindane)	ND		33.3	25.4		ug/kg		76	40 - 120	6	30
Heptachlor	ND		33.3	25.7		ug/kg		77	40 - 115	9	30
Heptachlor epoxide	ND		33.3	25.7		ug/kg		77	45 - 115	3	30
Methoxychlor	ND		33.3	24.0		ug/kg		72	40 - 135	7	30

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Decachlorobiphenyl	*67*		*45 - 120*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Lab Sample ID: 11K1156-MSD1
Matrix: Soil
Analysis Batch: 11K1156

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11K1156_P

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*35 - 115*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-99851/6-A
Matrix: Solid
Analysis Batch: 99899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		11/10/11 10:31	11/10/11 14:03	1
Barium	ND		0.50		mg/Kg		11/10/11 10:31	11/10/11 14:03	1
Cadmium	ND		0.50		mg/Kg		11/10/11 10:31	11/10/11 14:03	1
Chromium	ND		1.3		mg/Kg		11/10/11 10:31	11/10/11 14:03	1
Lead	ND		1.5		mg/Kg		11/10/11 10:31	11/10/11 14:03	1
Selenium	ND		5.0		mg/Kg		11/10/11 10:31	11/10/11 14:03	1
Silver	ND		1.0		mg/Kg		11/10/11 10:31	11/10/11 14:03	1

Lab Sample ID: LCS 580-99851/7-A
Matrix: Solid
Analysis Batch: 99899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	198		mg/Kg		99	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Cadmium	5.00	4.95		mg/Kg		99	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Selenium	200	188		mg/Kg		94	80 - 120
Silver	30.0	28.1		mg/Kg		94	75 - 120

Lab Sample ID: LCSD 580-99851/8-A
Matrix: Solid
Analysis Batch: 99899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99851

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	198		mg/Kg		99	80 - 120	0	20
Barium	200	194		mg/Kg		97	80 - 120	2	20
Cadmium	5.00	4.96		mg/Kg		99	80 - 120	0	20
Chromium	20.0	19.7		mg/Kg		98	80 - 120	0	20
Lead	50.0	49.4		mg/Kg		99	80 - 120	0	20
Selenium	200	190		mg/Kg		95	80 - 120	1	20
Silver	30.0	28.4		mg/Kg		95	75 - 120	1	20

Lab Sample ID: 580-29672-1 MS
Matrix: Solid
Analysis Batch: 99899

Client Sample ID: HUJ0093-01
Prep Type: Total/NA
Prep Batch: 99851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		38.9	41.2		mg/Kg		106	80 - 120
Barium	4.7		38.9	40.0		mg/Kg		91	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 580-29672-1 MS — **Client Sample ID: HUJ0093-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99899 — **Prep Batch: 99851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		0.973	ND		mg/Kg		87	80 - 120
Chromium	4.4		3.89	8.00		mg/Kg		91	80 - 120
Lead	ND		9.73	8.25		mg/Kg		80	80 - 120
Selenium	ND		38.9	36.7		mg/Kg		94	80 - 120
Silver	ND		5.84	4.58		mg/Kg		78	75 - 120

Lab Sample ID: 580-29672-1 MSD — **Client Sample ID: HUJ0093-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99899 — **Prep Batch: 99851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		39.2	39.0		mg/Kg		100	80 - 120	5	20
Barium	4.7		39.2	43.8		mg/Kg		100	80 - 120	9	20
Cadmium	ND		0.981	ND		mg/Kg		82	80 - 120	5	20
Chromium	4.4		3.92	7.94		mg/Kg		89	80 - 120	1	20
Lead	ND		9.81	8.09	F	mg/Kg		78	80 - 120	2	20
Selenium	ND		39.2	36.0		mg/Kg		92	80 - 120	2	20
Silver	ND		5.88	4.73		mg/Kg		80	75 - 120	3	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-99851/6-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99881 — **Prep Batch: 99851**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.20		mg/Kg		11/10/11 10:31	11/10/11 12:42	10

Lab Sample ID: LCS 580-99851/7-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99881 — **Prep Batch: 99851**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	51.3		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 580-99851/8-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99881 — **Prep Batch: 99851**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	49.7		mg/Kg		99	80 - 120	3	20

Lab Sample ID: 580-29672-1 MS — **Client Sample ID: HUJ0093-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99881 — **Prep Batch: 99851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.51		9.73	9.19		mg/Kg		89	80 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-29672-1 MSD — **Client Sample ID: HUJ0093-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99881 — **Prep Batch: 99851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.51		9.81	10.1		mg/Kg		97	80 - 120	9	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-99847/6-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99891 — **Prep Batch: 99847**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		11/10/11 09:52	11/10/11 11:03	10

Lab Sample ID: LCS 580-99847/7-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99891 — **Prep Batch: 99847**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.100	0.106		mg/Kg		106	80 - 120

Lab Sample ID: LCSD 580-99847/8-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99891 — **Prep Batch: 99847**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.100	0.107		mg/Kg		107	80 - 120	1	20

Lab Sample ID: 580-29672-1 MS — **Client Sample ID: HUJ0093-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99891 — **Prep Batch: 99847**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.0954	0.0687	F	mg/Kg		72	80 - 120

Lab Sample ID: 580-29672-1 MSD — **Client Sample ID: HUJ0093-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99891 — **Prep Batch: 99847**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0953	0.0739	F	mg/Kg		78	80 - 120	7	20

GCMS Semivolatiles

Analysis Batch: 11K0012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K0012-BLK1	Method Blank	Total	Solid/Soil	EPA 8270 SIM	11K0012_P
11K0012-BS1	Lab Control Sample	Total	Solid/Soil	EPA 8270 SIM	11K0012_P
11K0012-MS1	MDW-BORROW	Total	Solid/Soil	EPA 8270 SIM	11K0012_P
11K0012-MSD1	MDW-BORROW	Total	Solid/Soil	EPA 8270 SIM	11K0012_P
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 8270 SIM	11K0012_P

Prep Batch: 11K0012_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K0012-BLK1	Method Blank	Total	Solid/Soil	EPA 3550 MS	
11K0012-BS1	Lab Control Sample	Total	Solid/Soil	EPA 3550 MS	
11K0012-MS1	MDW-BORROW	Total	Solid/Soil	EPA 3550 MS	
11K0012-MSD1	MDW-BORROW	Total	Solid/Soil	EPA 3550 MS	
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 3550 MS	

GC Semivolatiles

Analysis Batch: 11K0011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K0011-BLK1	Method Blank	Total	Solid/Soil	EPA 8081	11K0011_P
11K0011-BS1	Lab Control Sample	Total	Solid/Soil	EPA 8081	11K0011_P
11K0011-MS1	MDW-BORROW	Total	Solid/Soil	EPA 8081	11K0011_P
11K0011-MSD1	MDW-BORROW	Total	Solid/Soil	EPA 8081	11K0011_P
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 8081	11K0011_P

Analysis Batch: 11K0058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K0058-BLK1	Method Blank	Total	Solid/Soil	EPA 8082	11K0058_P
11K0058-BS1	Lab Control Sample	Total	Solid/Soil	EPA 8082	11K0058_P
11K0058-MS1	MDW-BORROW	Total	Solid/Soil	EPA 8082	11K0058_P
11K0058-MSD1	MDW-BORROW	Total	Solid/Soil	EPA 8082	11K0058_P
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 8082	11K0058_P

Prep Batch: 11K0011_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K0011-BLK1	Method Blank	Total	Solid/Soil	EPA 3550 GC	
11K0011-BS1	Lab Control Sample	Total	Solid/Soil	EPA 3550 GC	
11K0011-MS1	MDW-BORROW	Total	Solid/Soil	EPA 3550 GC	
11K0011-MSD1	MDW-BORROW	Total	Solid/Soil	EPA 3550 GC	
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 3550 GC	

Prep Batch: 11K0058_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K0058-BLK1	Method Blank	Total	Solid/Soil	EPA 3550 GC	
11K0058-BS1	Lab Control Sample	Total	Solid/Soil	EPA 3550 GC	
11K0058-MS1	MDW-BORROW	Total	Solid/Soil	EPA 3550 GC	
11K0058-MSD1	MDW-BORROW	Total	Solid/Soil	EPA 3550 GC	
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 3550 GC	

Pesticides

Analysis Batch: 11K1156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K1156-BLK1	Method Blank	Total	Soil	EPA 8081A	11K1156_P
11K1156-BS1	Lab Control Sample	Total	Soil	EPA 8081A	11K1156_P
11K1156-MS1	Matrix Spike	Total	Soil	EPA 8081A	11K1156_P
11K1156-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 8081A	11K1156_P
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 8081A	11K1156_P

Prep Batch: 11K1156_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K1156-BLK1	Method Blank	Total	Soil	EPA 3546	
11K1156-BS1	Lab Control Sample	Total	Soil	EPA 3546	
11K1156-MS1	Matrix Spike	Total	Soil	EPA 3546	
11K1156-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3546	
HUJ0093-01	MDW-BORROW	Total	Solid/Soil	EPA 3546	

Metals

Prep Batch: 99847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-29672-1 MS	HUJ0093-01	Total/NA	Solid	7471A	
580-29672-1 MSD	HUJ0093-01	Total/NA	Solid	7471A	
HUJ0093-01	MDW-BORROW	Total/NA	Solid/Soil	7471A	
LCS 580-99847/7-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 580-99847/8-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 580-99847/6-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 99851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-29672-1 MS	HUJ0093-01	Total/NA	Solid	3050B	
580-29672-1 MSD	HUJ0093-01	Total/NA	Solid	3050B	
HUJ0093-01	MDW-BORROW	Total/NA	Solid/Soil	3050B	
LCS 580-99851/7-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-99851/8-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 580-99851/6-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 99881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-29672-1 MS	HUJ0093-01	Total/NA	Solid	6020	99851
580-29672-1 MSD	HUJ0093-01	Total/NA	Solid	6020	99851
HUJ0093-01	MDW-BORROW	Total/NA	Solid/Soil	6020	99851
LCS 580-99851/7-A	Lab Control Sample	Total/NA	Solid	6020	99851
LCSD 580-99851/8-A	Lab Control Sample Dup	Total/NA	Solid	6020	99851
MB 580-99851/6-A	Method Blank	Total/NA	Solid	6020	99851

Analysis Batch: 99891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-29672-1 MS	HUJ0093-01	Total/NA	Solid	7471A	99847
580-29672-1 MSD	HUJ0093-01	Total/NA	Solid	7471A	99847
HUJ0093-01	MDW-BORROW	Total/NA	Solid/Soil	7471A	99847
LCS 580-99847/7-A	Lab Control Sample	Total/NA	Solid	7471A	99847
LCSD 580-99847/8-A	Lab Control Sample Dup	Total/NA	Solid	7471A	99847
MB 580-99847/6-A	Method Blank	Total/NA	Solid	7471A	99847

Metals (Continued)

Analysis Batch: 99899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-29672-1 MS	HUJ0093-01	Total/NA	Solid	6010B	99851
580-29672-1 MSD	HUJ0093-01	Total/NA	Solid	6010B	99851
HUJ0093-01	MDW-BORROW	Total/NA	Solid/Soil	6010B	99851
LCS 580-99851/7-A	Lab Control Sample	Total/NA	Solid	6010B	99851
LCSD 580-99851/8-A	Lab Control Sample Dup	Total/NA	Solid	6010B	99851
MB 580-99851/6-A	Method Blank	Total/NA	Solid	6010B	99851

Lab Chronicle

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Client Sample ID: MDW-BORROW
Date Collected: 10/19/11 13:00
Date Received: 10/20/11 16:20

Lab Sample ID: HUJ0093-01
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550 MS		0.974	11K0012_P	11/02/11 11:00	KR	TAL HON
Total	Analysis	EPA 8270 SIM		1.00	11K0012	11/03/11 14:24	VIRAT	TAL HON
Total	Prep	EPA 3550 GC		0.977	11K0011_P	11/02/11 10:26	KR	TAL HON
Total	Analysis	EPA 8081		1.00	11K0011	11/10/11 20:50	BWN	TAL HON
Total	Prep	EPA 3550 GC		0.932	11K0058_P	11/10/11 09:52	KR	TAL HON
Total	Analysis	EPA 8082		1.00	11K0058	11/10/11 13:36	KMR	TAL HON
Total	Prep	EPA 3546		1.0	11K1156_P	11/08/11 14:12	NF1	TAL IRV
Total	Analysis	EPA 8081A		1.0	11K1156	11/09/11 20:29	DXD	TAL IRV
Total/NA	Prep	3050B			99851	11/10/11 10:31	PAB	TAL SEA
Total/NA	Analysis	6020		10	99881	11/10/11 12:47	FCW	TAL SEA
Total/NA	Prep	7471A			99847	11/10/11 09:52	PAB	TAL SEA
Total/NA	Analysis	7471A		10	99891	11/10/11 11:10	FCW	TAL SEA
Total/NA	Analysis	6010B		10	99899	11/10/11 14:21	SP	TAL SEA

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

TAL IRV = TestAmerica Irvine, 17461 Derian Avenue, Suite 100, Irvine, CA 92614, TEL 949.261.1022

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Honolulu	Alaska	Alaska UST	10	
TestAmerica Honolulu	Florida	NELAC	4	E87907
TestAmerica Honolulu	Hawaii	State Program	9	
TestAmerica Honolulu	L-A-B	DoD ELAP		L2250
TestAmerica Honolulu	L-A-B	ISO/IEC 17025		L2250
TestAmerica Honolulu	USDA	USDA		HON-S-206
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 10.001r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	USDA		P330-09-00080
TestAmerica Seattle	Alaska	Alaska UST	10	UST-022
TestAmerica Seattle	Alaska	TA-Port Heiden Mobile Lab	10	UST-093
TestAmerica Seattle	California	NELAC	9	1115CA
TestAmerica Seattle	Florida	NELAC	4	E871074
TestAmerica Seattle	L-A-B	DoD ELAP		L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2236
TestAmerica Seattle	Louisiana	NELAC	6	05016
TestAmerica Seattle	Montana	MT DEQ UST	8	N/A
TestAmerica Seattle	Oregon	NELAC	10	WA100007
TestAmerica Seattle	USDA	USDA		P330-11-00222
TestAmerica Seattle	Washington	State Program	10	C553

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Geosyntec Consultants
Project/Site: Midway, PNG0511

TestAmerica Job ID: HUJ0093

Method	Method Description	Protocol	Laboratory
EPA 8270 SIM	PAH Compounds by EPA Method 8270 SIM		TAL HON
EPA 8081	Organochlorine Pesticides by EPA Method 8081		TAL HON
EPA 8082	Polychlorinated Biphenyls by EPA Method 8082		TAL HON
EPA 8081A	ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)		TAL IRV
6010B	Metals (ICP)	SW846	TAL SEA
6020	Metals (ICP/MS)	SW846	TAL SEA
7471A	Mercury (CVAA)	SW846	TAL SEA

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

TAL IRV = TestAmerica Irvine, 17461 Derian Avenue, Suite 100, Irvine, CA 92614, TEL 949.261.1022

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HWJ0093
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Scott Felton
Company name: Geosyntec Consultants
Address: 4601 Six Forks Rd Suite 340
City: Raleigh State: NC ZIP: 27609
Phone: 406 577 2051 Fax:
Sampler: M Schott # samples in shipment:

Project identification
Job name: Midway
Job number: PNG0511
P.O. Number:
Contact email address: sfelton@geosyntec.com
Date Results Needed:

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	MIS sample for Lead 6020	MIS sample for RCRA Metals	MIS sample for PCBs	MIS sample for PAHs	MIS Sample for Pesticides				Laboratory ID no.
1	MDW - Borrow				X								none	10/19/11	1300	3	X	X	X	X	X				HWJ0093-01
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

VOID

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Michael Schott / Michael Schott	10/20/11 1080	hand deliver	DARIN Lambert / Darin Lambert	NORTHWEST	10/20/11 0800	
DARIN Lambert / Darin Lambert	10/20/11 1620	HAND DELIVER	Jessica Simpson	TA Hon	10/20/11 1620	Rec 42
	1				1	Wet

Comments: MIS sample → lab should mix all 3 bags into 1 sample per MIS sampling Protocol → sample for 6020 (Pb), RCRA Metals, PCBs, PAHs, Pesticides

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

COC REV 04/2008 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page_____ of _____

TestAmerica

Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: Geosyntec Date/ Time Received: 10/20/11 1620

Received By: JC

Matrices: Soil Carrier: Client Airbill# :

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Chain of Custody present?	Yes ☑	No ☐		
Chain of Custody Signed when relinquished and received?	Yes ☑	No ☐		
Chain of Custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sample containers on ice?	Yes ☑	No ☐	Type:	Wet
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present:	☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked:	☑
pH Adjusted?	Yes ☐	No ☑	Final pH:	
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ☑	Location:	
Sample Filtration Needed?	Yes ☐	No ☑	Filtered in Field:	☐
Dry Weight Corrected Results?	Yes ☐	No ☑	Take Action:	☐
DODQSM / QAPP Project?	Yes ☐	No ☑	Type:	

Temperature Blank Present? Yes ☐ No ☑

Sample Container Temperature: 4 °C

Comments/ Sampling Handling Notes: